

Agenda

Important Dates

Topics

Workshops

Tutorials

Full Programme

Organizers



Sponsors



Online platform

This conference will be held on Whova platform.

For more information:



Get Whova Now

For PC, [click here](#) to see the agenda.
The online streaming software used in this conference: Webex. Here is the instruction: [click here](#).

Notes

Please contact the conference organizer at info@oecc2021.org for all questions related to registration, payment and Whova.

July 3-7, 2021

Duration of the conference

June 28, 2021

Agenda

Conference Schedule

	Saturday 3 July	Sunday 4 July	Monday 5 July	Tuesday 6 July	Wednesday 7 July	Venue
<i>Workshops</i>	08:30-12:30 ¹ 13:30-18:00					Room 1-6
<i>Opening and Plenary session</i>		8:30-10:30	8:30-10:30			Room 7
<i>Poster session</i>		11:00-12:30	11:00-12:30			Room 1-6
<i>Technical sessions</i>		14:00-18:00	14:00-18:00	08:30-18:00	08:30-18:00	Room 1-6
<i>Conference Ceremony</i>			20:00-21:30			Room 7
<i>Post-deadline papers</i>				19:30-22:00		Room 7
<i>Lab tour</i>					08:30-18:00	Room 7

¹ Note:
All time reflect Hong Kong time. Please check with conference organizer during conference for schedule changes and updates.
Email: info@oecc2021.org

Event Schedule

Expanded View ▾

Filter By ▾



🌐 Displaying agenda in your event timezone (10:01 PM HKT)

Saturday, July 3

8:30 am - 8:55 am

Towards 6G Optical Wireless Communications: How LiFi Future-Proofs Wireless Communications
(/embedded/session/oecc_202107/1715479/?view=)

Next-Generation Optical Wireless Communication (OWC) Technologies for 6G: How far to go?

Room 1

📺 Live Stream: Join stream

- Harald Haas (/embedded/speaker/oecc_202107/16142896/?view=) (Speaker) Distinguished Professor, University of Strathclyde

8:30 am - 8:55 am

Low-loss Si₃N₄ TriPLeX platform: applications in photonics-based radars
(/embedded/session/oecc_202107/1715487/?view=)

Microwave Photonics - Broadband Cognitive Radio Enabled by Microwave Photonics

Deadline for uploading videos and posters [Click here](#)

June 18, 2021

Deadline for Postdeadline Paper Submission [Click here](#)

March 30, 2021

Deadline for Paper Submission

May 7, 2021


Author notification letters sent

8:55 am - 9:20 am

Room 2


 Live Stream: Join stream

- Roeloffzen Chris ([embedded/speaker/oecc_202107/16142906/?view=](/embedded/speaker/oecc_202107/16142906/?view=)) (Speaker) LioniX International

Progress of Tri-color Visible Laser Lighting and VWDM Communication 
([embedded/session/oecc_202107/1715480/?view=](/embedded/session/oecc_202107/1715480/?view=))


Next-Generation Optical Wireless Communication (OWC) Technologies for 6G: How far to go?

Room 1

 Live Stream: Join stream


- Chih-Hsien Cheng & Gong-Ru Lin ([embedded/speaker/oecc_202107/16142897/?view=](/embedded/speaker/oecc_202107/16142897/?view=)) (Speaker) 1. The University of Tokyo;2. National Taiwan University

8:55 am - 9:20 am

Optical I/O for Digital Phase Array Systems 
([embedded/session/oecc_202107/1715488/?view=](/embedded/session/oecc_202107/1715488/?view=))

Microwave Photonics - Broadband Cognitive Radio Enabled by Microwave Photonics

Room 2

 Live Stream: Join stream

 Recorded Video: Watch video

- Mark Wade ([embedded/speaker/oecc_202107/16142907/?view=](/embedded/speaker/oecc_202107/16142907/?view=)) (Speaker) Ayar Labs, USA


9:20 am - 9:45 am

Technical Challenges in Maturing Optical Wireless Communication (OWC) Technologies 
([embedded/session/oecc_202107/1715481/?view=](/embedded/session/oecc_202107/1715481/?view=))

Next-Generation Optical Wireless Communication (OWC) Technologies for 6G: How far to go?

Room 1

 Live Stream: Join stream

 Recorded Video: Watch video

- Jean-Paul M.G. Linnartz ([embedded/speaker/oecc_202107/16142898/?view=](/embedded/speaker/oecc_202107/16142898/?view=)) (Speaker) Eindhoven University of Technology

9:20 am - 9:45 am

Photonics-based radar on chip 
([embedded/session/oecc_202107/1715489/?view=](/embedded/session/oecc_202107/1715489/?view=))

Microwave Photonics - Broadband Cognitive Radio Enabled by Microwave Photonics


Room 2

 Live Stream: Join stream

 Recorded Video: Watch video

- Paolo Ghelfi ([embedded/speaker/oecc_202107/16142908/?view=](/embedded/speaker/oecc_202107/16142908/?view=)) (Speaker) Dr., PNTLab - CNIT

9:45 am - 10:10 am

High Speed Lasers and Photodetectors for Terrestrial Communications 
([embedded/session/oecc_202107/1715482/?view=](/embedded/session/oecc_202107/1715482/?view=))

Next-Generation Optical Wireless Communication (OWC) Technologies for 6G: How far to go?


Room 1
















 Live Stream: Join stream







 Recorded Video: Watch video











- Tien Khee Ng 伍田祺 ([embedded/speaker/oecc_202107/16853903/?view=](/embedded/speaker/oecc_202107/16853903/?view=)) (Speaker) Principal Research Scientist, King Abdullah University of Science and Technology



















9:45 am - 10:10 am

Photonic integrated devices for microwave photonic signal processing 

	<p>Signal processing (/embedded/session/oecc_202107/1715490/?view=)</p> <p>Microwave Photonics - Broadband Cognitive Radio Enabled by Microwave Photonics</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Lawrence Chen (/embedded/speaker/oecc_202107/16142909/?view=) (Speaker) McGill University, Canada 	
10:25 am - 10:50 am	<p>Dimming Techniques of Visible Light Communications for Human-Centric Illumination Networks (/embedded/session/oecc_202107/1715483/?view=)</p> <p>Next-Generation Optical Wireless Communication (OWC) Technologies for 6G: How far to go?</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Jian Song (/embedded/speaker/oecc_202107/16142900/?view=) (Speaker) Room1-410, FTI Building, TSINGHUA UNIVERSITY 	
10:25 am - 10:50 am	<p>High-performance microwave photonic devices on silicon (/embedded/session/oecc_202107/1715491/?view=)</p> <p>Microwave Photonics - Broadband Cognitive Radio Enabled by Microwave Photonics</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Daoxin Dai (/embedded/speaker/oecc_202107/15930581/?view=) (Speaker) Professor, Zhejiang University 	
10:50 am - 11:15 am	<p>Visible LEDs for Visible Light Communication (/embedded/session/oecc_202107/1715484/?view=)</p> <p>Next-Generation Optical Wireless Communication (OWC) Technologies for 6G: How far to go?</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Jianli Zhang (/embedded/speaker/oecc_202107/16142901/?view=) (Speaker) Nanchang University 	
10:50 am - 11:15 am	<p>Silicon photonic chips for microwave signal generation and processing (/embedded/session/oecc_202107/1715492/?view=)</p> <p>Microwave Photonics - Broadband Cognitive Radio Enabled by Microwave Photonics</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Weifeng Zhang (/embedded/speaker/oecc_202107/16142910/?view=) (Speaker) Professor, Beijing Institute of Technology 	
11:15 am - 11:40 am	<p>Factors Restricting OWC Development (/embedded/session/oecc_202107/1715485/?view=)</p> <p>Next-Generation Optical Wireless Communication (OWC) Technologies for 6G: How far to go?</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Junping Zhang (/embedded/speaker/oecc_202107/16142902/?view=) (Speaker) Huawei Technologies 	
11:15 am - 11:40 am	<p>Optically-injected-semiconductor-laser-based radar waveform generator: realization and application</p>	

	<div> <div>(/embedded/session/oecc_202107/1715493/?view=)</div> <div> <div>Microwave Photonics - Broadband Cognitive Radio Enabled by Microwave Photonics</div> <div>Room 2</div> <div> <div>  Live Stream: Join stream </div> <div>  Recorded Video: Watch video </div> <div> <ul style="list-style-type: none"> • Pei Zhou (/embedded/speaker/oecc_202107/16142911/?view=) (Speaker) Soochow University, China </div> </div> </div> </div>
11:40 am - 12:05 pm	<div> <div>Rate-Adaptive Flexible Access in Optical Wireless Communications by Using Advanced Signal Processing</div> <div>(/embedded/session/oecc_202107/1715486/?view=)</div> <div> <div>Next-Generation Optical Wireless Communication (OWC) Technologies for 6G: How far to go?</div> <div>Room 1</div> <div> <div>  Live Stream: Join stream </div> <div> <ul style="list-style-type: none"> • Junwen Zhang (/embedded/speaker/oecc_202107/16142903/?view=) (Speaker) Professor, Fudan University </div> </div> </div> </div>
1:30 pm - 1:55 pm	<div> <div>Gaussian boson sampling and its applications</div> <div>(/embedded/session/oecc_202107/1715494/?view=)</div> <div> <div>Photonic Quantum Technologies</div> <div>Room 3</div> <div> <div>  Live Stream: Join stream </div> <div>  Recorded Video: Watch video </div> <div> <ul style="list-style-type: none"> • J. M. Arrazola (/embedded/speaker/oecc_202107/16592751/?view=) (Speaker) </div> </div> </div> </div>
1:55 pm - 2:20 pm	<div> <div>Long distance quantum communication</div> <div>(/embedded/session/oecc_202107/1715495/?view=)</div> <div> <div>Photonic Quantum Technologies</div> <div>Room 3</div> <div> <div>  Live Stream: Join stream </div> <div> <ul style="list-style-type: none"> • Qiang Zhang (/embedded/speaker/oecc_202107/16142887/?view=) (Speaker) University of Science and Technology of China </div> </div> </div> </div>
2:00 pm - 2:25 pm	<div> <div>Capacity demand of data center networks</div> <div>(/embedded/session/oecc_202107/1715501/?view=)</div> <div> <div>SDM is beginning to reach its capacity limit? What is a viable path to 100 Pbit/s per fiber and b...</div> <div>Room 4</div> <div> <div>  Live Stream: Join stream </div> <div>  Recorded Video: Watch video </div> <div> <ul style="list-style-type: none"> • Chongjin Xie (/embedded/speaker/oecc_202107/16142915/?view=) (Speaker) Senior Director, Alibaba Cloud </div> </div> </div> </div>
2:00 pm - 2:25 pm	<div> <div>Plastic optical fiber fuse and its application to magnetic field sensing</div> <div>(/embedded/session/oecc_202107/1715509/?view=)</div> <div> <div>Advanced Photonic Sensors</div> <div>Room 5</div> <div> <div>  Live Stream: Join stream </div> <div>  Recorded Video: Watch video </div> <div> <ul style="list-style-type: none"> • Yosuke Mizuno (/embedded/speaker/oecc_202107/16142924/?view=) (Speaker) Yokohama National University </div> </div> </div> </div>
2:00 pm - 2:25 pm	<div> <div>Future data center optical interconnect and 800G pluggable MSA</div> <div>(/embedded/session/oecc_202107/1715517/?view=)</div> <div> <div>Data Center Interconnects Technology</div> </div> </div>

	Room 6  Live Stream: Join stream <ul style="list-style-type: none"> • Maxim Kuschnerov (/embedded/speaker/oecc_202107/15930553/?view=) (Speaker) Director of R&D, Huawei Technologies
2:20 pm - 2:45 pm	Next-generation free-space quantum networks (/embedded/session/oecc_202107/1715496/?view=)  Photonic Quantum Technologies Room 3  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Yuan Cao (/embedded/speaker/oecc_202107/16142888/?view=) (Speaker) University of Science and Technology of China
2:25 pm - 2:50 pm	Technologies to increase the number of cores in a fiber - beyond 100 (/embedded/session/oecc_202107/1715502/?view=)  SDM is beginning to reach its capacity limit? What is a viable path to 100 Pbit/s per fiber and b... Room 4  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Kazunori Mukasa (/embedded/speaker/oecc_202107/16142916/?view=) (Speaker) Manager, Furukawa Electric Co., Ltd.
2:25 pm - 2:50 pm	Continuous chirped-wave phase-sensitive optical time domain reflectometry (/embedded/session/oecc_202107/1715510/?view=)  Advanced Photonic Sensors
	Room 5  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Zinan Wang (/embedded/speaker/oecc_202107/16142925/?view=) (Speaker) Professor, University of Electronic Science and Technology of China
2:25 pm - 2:50 pm	What's the future of pluggable optical transceivers? (/embedded/session/oecc_202107/1715518/?view=)  Data Center Interconnects Technology
	Room 6  Live Stream: Join stream <ul style="list-style-type: none"> • Frank Chang (/embedded/speaker/oecc_202107/16142934/?view=) (Speaker) Chief Engineer, Source Photonics
2:45 pm - 3:10 pm	Photonic quantum advantage (/embedded/session/oecc_202107/1715497/?view=)  Photonic Quantum Technologies
	Room 3  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Hansen Zhong (/embedded/speaker/oecc_202107/16853905/?view=) (Speaker)
2:50 pm - 3:15 pm	High density spatial channel fibers, few-mode fibers and few-mode multicore fibers (/embedded/session/oecc_202107/1715503/?view=)  SDM is beginning to reach its capacity limit? What is a viable path to 100 Pbit/s per fiber and b... Room 4  Live Stream: Join stream

	<div>  Recorded Video: Watch video <ul style="list-style-type: none"> Yusuke Sasaki (/embedded/speaker/oecc_202107/16142917/?view=) (Speaker) Fujikura, Japan </div>
2:50 pm - 3:15 pm	<div> Ultrafast distributed Brillouin optical fiber sensing based on optical chirp chain (/embedded/session/oecc_202107/1715511/?view=)  </div> <div> Advanced Photonic Sensors </div> <div>Room 5</div> <div>  Live Stream: Join stream <div>  Recorded Video: Watch video <ul style="list-style-type: none"> Dengwang Zhou (/embedded/speaker/oecc_202107/16142926/?view=) (Speaker) Post doctorate, Harbin Institute of Technology </div> </div>
2:50 pm - 3:15 pm	<div> Next generation optical interconnect for datacenters (/embedded/session/oecc_202107/1715519/?view=)  </div> <div> Data Center Interconnects Technology </div> <div>Room 6</div> <div>  Live Stream: Join stream <div>  Recorded Video: Watch video <ul style="list-style-type: none"> Agassi Wang (/embedded/speaker/oecc_202107/16142938/?view=) (Speaker) Alibaba Group </div> </div>
3:15 pm - 3:40 pm	<div> High-density SDM amplifiers (/embedded/session/oecc_202107/1715504/?view=)  </div> <div> SDM is beginning to reach its capacity limit? What is a viable path to 100 Pbit/s per fiber and b... </div> <div>Room 4</div> <div>  Live Stream: Join stream <div>  Recorded Video: Watch video <ul style="list-style-type: none"> Yongmin Jung (/embedded/speaker/oecc_202107/16342664/?view=) (Speaker) Principal Research Fellow, University of Southampton </div> </div>
3:15 pm - 3:40 pm	<div> Ultra-sensitive optical gas sensors with photoacoustic spectroscopy (/embedded/session/oecc_202107/1715512/?view=)  </div> <div> Advanced Photonic Sensors </div> <div>Room 5</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Wei Ren (/embedded/speaker/oecc_202107/16142927/?view=) (Speaker) Chinese University of Hong Kong </div>
3:15 pm - 3:40 pm	<div> Designing Zipper codes for optical communications (/embedded/session/oecc_202107/1715520/?view=)  </div> <div> Data Center Interconnects Technology </div> <div>Room 6</div> <div>  Live Stream: Join stream <div>  Recorded Video: Watch video <ul style="list-style-type: none"> Alvin Sukmadji (/embedded/speaker/oecc_202107/16422654/?view=) (Speaker) University of Toronto Frank R. Kschischang (/embedded/speaker/oecc_202107/16142936/?view=) (Speaker) </div> </div>
3:25 pm - 3:50 pm	<div> Generation of high-dimensional photonic entanglement (/embedded/session/oecc_202107/1715498/?view=)  </div> <div> Photonic Quantum Technologies </div> <div>Room 3</div> <div>  Live Stream: Join stream <div>  Recorded Video: Watch video <ul style="list-style-type: none"> Alexander Jones (/embedded/speaker/oecc_202107/16853906/?view=) (Speaker) University of Cambridge </div> </div>

3:50 pm - 4:15 pm

Semiconductor quantum light sources and applications
(/embedded/session/oecc_202107/1715499/?view=)



Photonic Quantum Technologies

Room 3

Live Stream: Join stream

Recorded Video: Watch video

- **Pascale Senellart** (/embedded/speaker/oecc_202107/16142892/?view=) (Speaker) CNRS Research Director, Center for Nanoscience and Nanotechnology -CNRS - University Paris Saclay

3:55 pm - 4:20 pm

Laguerre-Gaussian mode sorters of high spatial mode count (/embedded/session/oecc_202107/1715505/?view=)



SDM is beginning to reach its capacity limit? What is a viable path to 100 Pbit/s per fiber and b...

Room 4

Live Stream: Join stream

Recorded Video: Watch video

- **Joel Carpenter** (/embedded/speaker/oecc_202107/16142919/?view=) (Speaker) University of Queensland, Australia

3:55 pm - 4:20 pm

Photoacoustic Brillouin spectroscopy of gas-filled anti-resonant hollow-core fibers
(/embedded/session/oecc_202107/1715513/?view=)



Advanced Photonic Sensors

Room 5

Live Stream: Join stream

Recorded Video: Watch video

- **Yan Zhao** (/embedded/speaker/oecc_202107/16142928/?view=) (Speaker) The Hong Kong Polytechnic University

3:55 pm - 4:20 pm

Low latency hollow core fibres
(/embedded/session/oecc_202107/1715521/?view=)



Data Center Interconnects Technology

Room 6

Live Stream: Join stream

Recorded Video: Watch video

- **Franesco Poletti** (/embedded/speaker/oecc_202107/16636280/?view=) (Speaker)

4:15 pm - 4:40 pm

When quantum dots meet open cavity
(/embedded/session/oecc_202107/1715500/?view=)



Photonic Quantum Technologies

Room 3

Live Stream: Join stream

- **Richard Warburton**
(/embedded/speaker/oecc_202107/16142893/?view=) (Speaker)
Professor, University of Basel

4:20 pm - 4:45 pm

Ultra-high capacity transmission using SDM
(/embedded/session/oecc_202107/1715506/?view=)



SDM is beginning to reach its capacity limit? What is a viable path to 100 Pbit/s per fiber and b...

Room 4

Live Stream: Join stream

- **Georg Rademacher**
(/embedded/speaker/oecc_202107/15930555/?view=) (Speaker)
Senior Researcher, National Institute of Information and Communications Technology

4:20 pm - 4:45 pm

Opto-mechanical sensors of media outside standard fibers (/embedded/session/oecc_202107/1715514/?view=)



Advanced Photonic Sensors

Room 5



Live Stream: Join stream



Recorded Video: Watch video

- [Avi Zadok \(/embedded/speaker/oecc_202107/16142929/?view=\)](/embedded/speaker/oecc_202107/16142929/?view=) (Speaker) Bar-Ilan University

4:20 pm - 4:45 pm

224Gbps PAM4 EA-DFB lasers for Data Center Interconnection (/embedded/session/oecc_202107/1715522/?view=)



Data Center Interconnects Technology

Room 6



Live Stream: Join stream



Recorded Video: Watch video

- [Kazuhiko Naoe \(/embedded/speaker/oecc_202107/16142939/?view=\)](/embedded/speaker/oecc_202107/16142939/?view=) (Speaker) Lumentum

4:45 pm - 5:10 pm

Ultra-high capacity optical transport using SDM (/embedded/session/oecc_202107/1715507/?view=)



SDM is beginning to reach its capacity limit? What is a viable path to 100 Pbit/s per fiber and b...

Room 4



Live Stream: Join stream



Recorded Video: Watch video

- [Yutaka Miyamoto \(/embedded/speaker/oecc_202107/16142920/?view=\)](/embedded/speaker/oecc_202107/16142920/?view=) (Speaker) NTT Fellow, NTT Corporation

4:45 pm - 5:10 pm

On-the-fly particle metrology in hollow-core photonic crystal fiber (/embedded/session/oecc_202107/1715515/?view=)



Advanced Photonic Sensors

Room 5



Live Stream: Join stream



Recorded Video: Watch video

- [Shangran Xie \(/embedded/speaker/oecc_202107/16142930/?view=\)](/embedded/speaker/oecc_202107/16142930/?view=) (Speaker) Professor, Beijing Institute of Technology

4:45 pm - 5:10 pm

Optical device technologies for 200 Gbps/lane transmission (/embedded/session/oecc_202107/1715523/?view=)



Data Center Interconnects Technology

Room 6



Live Stream: Join stream



Recorded Video: Watch video

- [Masahiro Honda \(/embedded/speaker/oecc_202107/16142941/?view=\)](/embedded/speaker/oecc_202107/16142941/?view=) (Speaker) Sumitomo Electric Industries

5:10 pm - 5:35 pm

Ultra-high level modulation (/embedded/session/oecc_202107/1715508/?view=)



SDM is beginning to reach its capacity limit? What is a viable path to 100 Pbit/s per fiber and b...

Room 4



Live Stream: Join stream



Recorded Video: Watch video

- [Jianjun Yu \(/embedded/speaker/oecc_202107/16142921/?view=\)](/embedded/speaker/oecc_202107/16142921/?view=) (Speaker) Fudan University, China

5:10 pm - 5:35 pm

Gas photonics using hollow-core fibers: Brillouin nonlinear optics and gas spectroscopic sensors
(/embedded/session/oecc_202107/1715516/?view=)



Advanced Photonic Sensors

Room 5



Live Stream: Join stream

- **Fan Yang** (/embedded/speaker/oecc_202107/16142931/?view=) (Speaker) Research Scientist, European Molecular Biology Laboratory (EMBL)

5:10 pm - 5:35 pm

The applications of analogue computing in optical DSP
(/embedded/session/oecc_202107/1715524/?view=)



Data Center Interconnects Technology

Room 6



Live Stream: Join stream

- **Leibin Ni** (/embedded/speaker/oecc_202107/16342669/?view=) (Speaker)
- **Raymond Leung** (/embedded/speaker/oecc_202107/16142932/?view=) (Speaker) Huawei Technologies

Sunday, July 4

8:30 am - 9:00 am

Opening ceremony
(/embedded/session/oecc_202107/1715530/?view=)



Opening ceremony

Room 7



Live Stream: Join stream

Recorded Video: Watch video

- **P.K.A.Wai** (/embedded/speaker/oecc_202107/16342802/?view=) (Speaker)

9:00 am - 9:45 am

Advances in Optical Communication Systems and Networks in the 5G Era
(/embedded/session/oecc_202107/1715531/?view=)



Plenary talk

Room 7



Live Stream: Join stream

Recorded Video: Watch video

- **Xiang Liu** (/embedded/speaker/oecc_202107/16342804/?view=) (Speaker)

9:45 am - 10:30 am

Quantum Dot Lasers for Advanced Photonics Technology
(/embedded/session/oecc_202107/1715532/?view=)



Plenary talk

Room 7



Live Stream: Join stream

Recorded Video: Watch video

- **Yasuhiko Arakawa** (/embedded/speaker/oecc_202107/16342805/?view=) (Speaker) Prof., The University of Tokyo

11:00 am - 12:30 pm

Reinforced Resource Allocation based on n-Dimensional Matrix Diagram for Multi-Modal Optical Networks
(/embedded/session/oecc_202107/1715394/?view=)













Core/Access/Data Center Networks and Subsystems











Room 1



Live Stream: Join stream

• **Yan Zhang** (/embedded/speaker/oecc_202107/16342806/?view=) (Speaker) Huawei Technologies

	<ul style="list-style-type: none"> • Zipiao Zhao (/embedded/speaker/oecc_202107/16310589/?view=) (Speaker) 	
11:00 am - 12:30 pm	<p>Cluster Mobile Fronthaul over WDM-PON with Remote Port Irrelevance Based on Cyclic-AWG and Coarse Filters (/embedded/session/oecc_202107/1715395/?view=)</p> <p>Core/Access/Data Center Networks and Subsystems</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Ziyu Cheng (/embedded/speaker/oecc_202107/16342610/?view=) (Speaker) 	
11:00 am - 12:30 pm	<p>Orchestrating Circuit/Packet Switching for Fault-Tolerance in Hybrid Optical/Electrical Switched Data Center Networks (/embedded/session/oecc_202107/1715396/?view=)</p> <p>Core/Access/Data Center Networks and Subsystems</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Qiao Jun Hu (/embedded/speaker/oecc_202107/16342612/?view=) (Speaker) 	
11:00 am - 12:30 pm	<p>Numerical Comparison of Transmission Characteristics between C-band and O-band in WDM-based Analog Radio over Fiber Link (/embedded/session/oecc_202107/1715397/?view=)</p> <p>Core/Access/Data Center Networks and Subsystems</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Kosuke Suzuki (/embedded/speaker/oecc_202107/16342613/?view=) (Speaker) Master's student, Osaka university 	
11:00 am - 12:30 pm	<p>Comparison of DDLMS and CMMA in 60GBaud PDM-PAM-4 PON Utilizing Heterodyne Coherent Detection (/embedded/session/oecc_202107/1715398/?view=)</p> <p>Core/Access/Data Center Networks and Subsystems</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Daoning Lai (/embedded/speaker/oecc_202107/16342614/?view=) (Speaker) 	
11:00 am - 12:30 pm	<p>Automatic Modulation-Format Selection with White box Transponders: Design and Field Trial (/embedded/session/oecc_202107/1715399/?view=)</p> <p>Core/Access/Data Center Networks and Subsystems</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Takeo Sasai (/embedded/speaker/oecc_202107/16342615/?view=) (Speaker) Researcher, NTT Laboratories 	
11:00 am - 12:30 pm	<p>DEDIP: Dual-Engine-Driven Intent Parse Framework in Intent-Based Optical Network (/embedded/session/oecc_202107/1715400/?view=)</p> <p>Core/Access/Data Center Networks and Subsystems</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Wang Chao (/embedded/speaker/oecc_202107/16183930/?view=) (Speaker) 学生, 北京邮电大学 	
11:00 am - 12:30 pm	<p>Deep Reinforcement Learning Based Virtual Network</p>	

	<div> <div>Embedding for 6G Satellite Networks (/embedded/session/oecc_202107/1715401/?view=)</div> <div>Core/Access/Data Center Networks and Subsystems</div> <div>Room 1</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Ruijie Zhu (/embedded/speaker/oecc_202107/16342617/?view=) (Speaker) </div> </div>	
11:00 am - 12:30 pm	<div> <div>Flexible Organic Photodetector for Real-time Underwater Optical Wireless Video Transmission (/embedded/session/oecc_202107/1715402/?view=)</div> <div>Core/Access/Data Center Networks and Subsystems</div> <div>Room 1</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Zhaoming Wang (/embedded/speaker/oecc_202107/16023406/?view=) (Speaker) </div> </div>	
11:00 am - 12:30 pm	<div> <div>Security Enhancement of One-Dimensional Chaotic Encryption in the Physical Layer of OFDM-PON (/embedded/session/oecc_202107/1715403/?view=)</div> <div>Core/Access/Data Center Networks and Subsystems</div> <div>Room 1</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Zhu Huaqing (/embedded/speaker/oecc_202107/16342619/?view=) (Speaker) 苏州大学 </div> </div>	
11:00 am - 12:30 pm	<div> <div>Deep Reinforcement Learning Enabled Energy-Efficient Task Pre-Migration in Internet of Vehicles (/embedded/session/oecc_202107/1715404/?view=)</div> <div>Core/Access/Data Center Networks and Subsystems</div> <div>Room 1</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Zhendong Zhang (/embedded/speaker/oecc_202107/16123440/?view=) (Speaker) MR., Beijing University of Posts and Telecommunications </div> </div>	
11:00 am - 12:30 pm	<div> <div>Polarization Power Correlation Function-Based Nonlinearity Monitoring in PM-16QAM Coherent Optical Fiber Transmission Systems (/embedded/session/oecc_202107/1715405/?view=)</div> <div>Core/Access/Data Center Networks and Subsystems</div> <div>Room 1</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Feilong Wu (/embedded/speaker/oecc_202107/16252189/?view=) (Speaker) </div> </div>	
11:00 am - 12:30 pm	<div> <div>Reinforcement Learning Enabled Energy-Efficient vBBU Pre-Migration in Cloud-Fog based Elastic Optical Networks (/embedded/session/oecc_202107/1715406/?view=)</div> <div>Core/Access/Data Center Networks and Subsystems</div> <div>Room 1</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Luyao Guan (/embedded/speaker/oecc_202107/16342620/?view=) (Speaker) </div> </div>	
11:00 am - 12:30 pm	<div> <div>Achieving Global Optical Spectral Perception via Unified Information Model and Adaptive Perceptual Information Calibration (/embedded/session/oecc_202107/1715407/?view=)</div> <div>Core/Access/Data Center Networks and Subsystems</div> </div>	

Room 1



Live Stream: Join stream

- Kangqi Zhu (/embedded/speaker/oecc_202107/15993981/?view=) (Speaker) Tsinghua University

11:00 am - 12:30 pm

Design and Implementation of Open Optical Satellite Network Emulation Platform (OOSN-EP) Based on Distributed Multi-Node System
(/embedded/session/oecc_202107/1715408/?view=)



Core/Access/Data Center Networks and Subsystems

Room 1



Live Stream: Join stream

- Jipu Li (/embedded/speaker/oecc_202107/15993991/?view=) (Speaker)

11:00 am - 12:30 pm

Efficient Responsibility Traceability Strategy with Blockchain in Open-RAN
(/embedded/session/oecc_202107/1715409/?view=)



Core/Access/Data Center Networks and Subsystems

Room 1



Live Stream: Join stream

- Shuai Dong (/embedded/speaker/oecc_202107/16116070/?view=) (Speaker) Graduate student, Beijing University of Posts and Telecommunications

11:00 am - 12:30 pm

Comparison of CPR Methods in Probabilistically-shaped Coherent Systems with MB/QMB Distributions
(/embedded/session/oecc_202107/1715410/?view=)



Core/Access/Data Center Networks and Subsystems

Room 1



Live Stream: Join stream

- Peiming Ning (/embedded/speaker/oecc_202107/16296935/?view=) (Speaker) Student, South China University Of Technology

11:00 am - 12:30 pm

Performance Analysis of m-PSK/QAM Based on LDPC Code in Maritime Atmospheric Turbulence Channel
(/embedded/session/oecc_202107/1715411/?view=)



Transmission Systems and Technologies

Room 2



Live Stream: Join stream

- Zhongli Yi (/embedded/speaker/oecc_202107/16160114/?view=) (Speaker) Chief engineer, Transport Planning and Research Institute, Ministry of Transport, Beijing, China

11:00 am - 12:30 pm

Overfitting in Four-Layer-DNN-Based Nonlinear Equalizer for Optical Communication Systems
(/embedded/session/oecc_202107/1715412/?view=)



Transmission Systems and Technologies

Room 2



Live Stream: Join stream

- Jinya Nakamura (/embedded/speaker/oecc_202107/16342621/?view=) (Speaker) graduate student, Meiji University

11:00 am - 12:30 pm


Smartphone-Screen-Based, Low-Luminance Uplink Optical Camera Communication by Blue-Color Adaptive Thresholding
(/embedded/session/oecc_202107/1715413/?view=)



Transmission Systems and Technologies

Room 2

-

-  Live Stream: Join stream
- Alisa Kawade (/embedded/speaker/oecc_202107/16342622/?view=) (Speaker)


11:00 am - 12:30 pm

Modulation Format Recognition based on Transfer Learning for Visible Light Communication Systems
(/embedded/session/oecc_202107/1715414/?view=)



Transmission Systems and Technologies

Room 2

-  Live Stream: Join stream
- Zhenquan Zhao (/embedded/speaker/oecc_202107/16284442/?view=) (Speaker) Master Student, Tsinghua University


11:00 am - 12:30 pm

Combination of Multi-impairments Compensation and Decoding for LDPC-coded CO-OFDM via Deep Learning
(/embedded/session/oecc_202107/1715415/?view=)



Transmission Systems and Technologies

Room 2

-  Live Stream: Join stream
- Ying Han (/embedded/speaker/oecc_202107/16342623/?view=) (Speaker) Beijing University of Posts and Telecommunications


11:00 am - 12:30 pm

Modeling of PMD for wideband fiber channel and its influence on optical fiber communication system
(/embedded/session/oecc_202107/1715416/?view=)



Transmission Systems and Technologies

Room 2

-  Live Stream: Join stream
- Liu Ling (/embedded/speaker/oecc_202107/16270203/?view=) (Speaker) Graduate, Beijing University of Posts and Telecommunications


11:00 am - 12:30 pm

A Concentrating Photovoltaic Array Based on Transmitting Energy Fiber with Thermoelectric Generator Hybrid Power-over-Fiber System
(/embedded/session/oecc_202107/1715417/?view=)



Transmission Systems and Technologies

Room 2

-  Live Stream: Join stream
- Yue Li (/embedded/speaker/oecc_202107/16422649/?view=) (Speaker)


11:00 am - 12:30 pm

Optimal Network Synchronization Algorithm for Stable Radio Frequency Dissemination in Distributed Application
(/embedded/session/oecc_202107/1715418/?view=)



Transmission Systems and Technologies

Room 2

-  Live Stream: Join stream
- Zhu Jian (/embedded/speaker/oecc_202107/16342625/?view=) (Speaker)


11:00 am - 12:30 pm













Inter-channel Nonlinear Crosstalk Mitigation Based on Neural Network
(/embedded/session/oecc_202107/1715419/?view=)



Transmission Systems and Technologies

Room 2


-  Live Stream: Join stream
- Tao Xu (/embedded/speaker/oecc_202107/16092687/?view=) (Speaker) Student, University of Electronic Science and Technology of China

11:00 am - 12:30 pm	<p>Modulation Format Identification Using Kmeans Clustering and Cluster Validity Index (/embedded/session/oecc_202107/1715420/?view=)</p> <p>Transmission Systems and Technologies</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Zixian Yue (/embedded/speaker/oecc_202107/16255570/?view=) (Speaker) Beijing University of Posts and Telecommunications 	
11:00 am - 12:30 pm	<p>A Complex-valued Neural Network for Fiber Nonlinearity Mitigation (/embedded/session/oecc_202107/1715421/?view=)</p> <p>Transmission Systems and Technologies</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Pinjing He (/embedded/speaker/oecc_202107/16252101/?view=) (Speaker) 	
11:00 am - 12:30 pm	<p>Photonics-aided PAM-4 Wireless Transmission at 100 GHz based on Phase Insensitive Heterodyne Coherent Detection (/embedded/session/oecc_202107/1715422/?view=)</p> <p>Transmission Systems and Technologies</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Weiliang Xu (/embedded/speaker/oecc_202107/16298167/?view=) (Speaker) 	
11:00 am - 12:30 pm	<p>Ultrafast Beam Steering User Localization in Optical Wireless Communication (/embedded/session/oecc_202107/1715423/?view=)</p> <p>Transmission Systems and Technologies</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Yuanli Yue (/embedded/speaker/oecc_202107/16342627/?view=) (Speaker) PhD student, University of Kent 	
11:00 am - 12:30 pm	<p>An InGaN-based Quantum Dot Blue Micro-LED for High-speed Two-user QAM-NOMA Visible Light Communication (/embedded/session/oecc_202107/1715424/?view=)</p> <p>Transmission Systems and Technologies</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Li Zhang (/embedded/speaker/oecc_202107/16296769/?view=) (Speaker) Tsinghua University 	
11:00 am - 12:30 pm	<p>Experimental Demonstration of Optical Twin-SSB Detection Scheme Using an Electric Butterfly Operation (/embedded/session/oecc_202107/1715425/?view=)</p> <p>Transmission Systems and Technologies</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Kohei Tsumura (/embedded/speaker/oecc_202107/16342628/?view=) (Speaker) 	
11:00 am - 12:30 pm	<p>The Amplitude and Phase Frequency Response of the Short Reach Transmissions for DML, EAM, and MZM (/embedded/session/oecc_202107/1715426/?view=)</p>	

(/embedded/session/oecc_202107/1715426/?view=)

Transmission Systems and Technologies

Room 2

 Live Stream: Join stream

- Borui Xu (/embedded/speaker/oecc_202107/15993972/?view=) (Speaker)

11:00 am - 12:30 pm


Receiver Skew Compensation and Estimation Based on Widely Linear Equalizer



(/embedded/session/oecc_202107/1715427/?view=)

Transmission Systems and Technologies

Room 2

 Live Stream: Join stream

- Liang Junpeng (/embedded/speaker/oecc_202107/16342629/?view=) (Speaker) 算法高级工程师, ZTE

11:00 am - 12:30 pm


A Waveband Routing Method in Optical Networks Based on the Deep Reinforcement Learning



(/embedded/session/oecc_202107/1715428/?view=)

Optical Fibers, Fiber Amplifiers and Fiber Devices

Room 3

 Live Stream: Join stream

- Yang Liu (/embedded/speaker/oecc_202107/16342631/?view=) (Speaker)

1 subsession (/embedded/session/oecc_202107/1715428/?view=)

11:00 am - 12:30 pm


Chaotic Time-Delay Signature Suppression by Distributed Feedback from weak FBG arrays



(/embedded/session/oecc_202107/1715429/?view=)

Optical Fibers, Fiber Amplifiers and Fiber Devices

Room 3

 Live Stream: Join stream

- Kaiping Wang (/embedded/speaker/oecc_202107/16022052/?view=) (Speaker) Student, School of Information Engineering, Wuhan University of Technology

1 subsession (/embedded/session/oecc_202107/1715429/?view=)

11:00 am - 12:30 pm


Design of a Novel Bow-Tie Polarization Ring-Core Few-Mode Fiber for MIMO-Free MDM System



(/embedded/session/oecc_202107/1715430/?view=)

Optical Fibers, Fiber Amplifiers and Fiber Devices

Room 3

 Live Stream: Join stream

- Tongxin Yang (/embedded/speaker/oecc_202107/16177729/?view=) (Speaker) Graduate, Beijing University of Posts and Telecommunications

1 subsession (/embedded/session/oecc_202107/1715430/?view=)

11:00 am - 12:30 pm


Low Phase Noise X-Band Frequency Synthesizer Based on a Phase-Locked Brillouin Optoelectronic Oscillator



(/embedded/session/oecc_202107/1715431/?view=)

Optical Fibers, Fiber Amplifiers and Fiber Devices

Room 3


 Live Stream: Join stream

- Huanfa Peng (/embedded/speaker/oecc_202107/16342634/?view=) (Speaker) pku

1 subsession (/embedded/session/oecc_202107/1715431/?view=)


view=)

11:00 am - 12:30 pm

A 1.3-GHz harmonically mode-locked fiber laser using a V2AIC saturable absorber 
(/embedded/session/oecc_202107/1715432/?view=)

Optical Fibers, Fiber Amplifiers and Fiber Devices


Room 3

 Live Stream: Join stream

- Jinho Lee (/embedded/speaker/oecc_202107/16342636/?view=) (Speaker) University of Seoul


1 subsession (/embedded/session/oecc_202107/1715432/?view=)

11:00 am - 12:30 pm

Challenge towards Ultimate Large MFD keeping G.657 A2 Macro Bending Loss Performances 
(/embedded/session/oecc_202107/1715433/?view=)

Optical Fibers, Fiber Amplifiers and Fiber Devices


Room 3

 Live Stream: Join stream

- Kazunori Mukasa (/embedded/speaker/oecc_202107/16142916/?view=) (Speaker) Manager, Furukawa Electric Co., Ltd.


1 subsession (/embedded/session/oecc_202107/1715433/?view=)

11:00 am - 12:30 pm

Single-Photon Spin-Orbit Entangled States in Optical Fibers (/embedded/session/oecc_202107/1715434/?view=) 

Optical Fibers, Fiber Amplifiers and Fiber Devices


Room 3

 Live Stream: Join stream

- Li Yang (/embedded/speaker/oecc_202107/16342638/?view=) (Speaker)

1 subsession (/embedded/session/oecc_202107/1715434/?view=)

11:00 am - 12:30 pm

Helical-structure sampled Bragg grating fabricated by femtosecond laser 
(/embedded/session/oecc_202107/1715435/?view=)

Optical Fibers, Fiber Amplifiers and Fiber Devices


Room 3

 Live Stream: Join stream

- Xicheng Wang (/embedded/speaker/oecc_202107/16269984/?view=) (Speaker) Student, Huaqiao University

1 subsession (/embedded/session/oecc_202107/1715435/?view=)

11:00 am - 12:30 pm

Analysis of Laser-induced Damage Threshold of Silica Optical Fiber Based on Finite Element Method 
(/embedded/session/oecc_202107/1715436/?view=)

Optical Fibers, Fiber Amplifiers and Fiber Devices


Room 3

 Live Stream: Join stream

- Yining Zhu (/embedded/speaker/oecc_202107/16342639/?view=) (Speaker) Junior, Beijing University of Posts and Telecommunications

1 subsession (/embedded/session/oecc_202107/1715436/?view=)


11:00 am - 12:30 pm

A novel method for analyzing cavity mode of Extended-DBR lasers with micro-ring structure 
(/embedded/session/oecc_202107/1715437/?view=)

Optical Devices and Modules

Room 4

Room 4

 Live Stream: Join stream

- Changda Xu (/embedded/speaker/oecc_202107/15993976/?view=) (Speaker)


11:00 am - 12:30 pm

On-Chip Slot-Assisted Acousto-Optic Modulators Using X-Cut Thin-Film Lithium Niobate
(/embedded/session/oecc_202107/1715438/?view=)



Optical Devices and Modules

Room 4

 Live Stream: Join stream

- Yin Xu (/embedded/speaker/oecc_202107/16258185/?view=) (Speaker) Prof., Jiangnan University


11:00 am - 12:30 pm

A Design for Ultra Wideband Vertical Microstrip-Microstrip Transition
(/embedded/session/oecc_202107/1715439/?view=)



Optical Devices and Modules

Room 4

 Live Stream: Join stream

- Yuanxiang Chen (/embedded/speaker/oecc_202107/16342640/?view=) (Speaker)


11:00 am - 12:30 pm

Numerical Demonstration of Tunable Multi-channel Notch Filter Based on SFG in a PPLN Waveguide
(/embedded/session/oecc_202107/1715440/?view=)



Optical Devices and Modules

Room 4

 Live Stream: Join stream

- Zhefeng Hu (/embedded/speaker/oecc_202107/16023272/?view=) (Speaker)

11:00 am - 12:30 pm

Low phase noise wideband LFM signal generation by injection-locking an optoelectronic oscillator
(/embedded/session/oecc_202107/1715441/?view=)



Optical Devices and Modules

Room 4

 Live Stream: Join stream

- Mingzhen Liu (/embedded/speaker/oecc_202107/16207163/?view=) (Speaker)

11:00 am - 12:30 pm

A Low Insertion Loss Arrayed Waveguide Grating with Transversal Transitional Waveguides
(/embedded/session/oecc_202107/1715442/?view=)



Optical Devices and Modules

Room 4

 Live Stream: Join stream

- Yuanxiang Chen (/embedded/speaker/oecc_202107/16342640/?view=) (Speaker)

11:00 am - 12:30 pm

Loss-induced high-speed silicon microheater
(/embedded/session/oecc_202107/1715443/?view=)



Optical Devices and Modules

Room 4

 Live Stream: Join stream

- Yanxian Wei (/embedded/speaker/oecc_202107/16422651/?view=) (Speaker)

11:00 am - 12:30 pm

Phase-preserving amplitude regeneration of optical 16QAM signals using a Mach-Zehnder interferometer on chip
(/embedded/session/oecc_202107/1715444/?view=)



view=)

Optical Devices and Modules

Room 4



Live Stream: Join stream

- Biao Guo (/embedded/speaker/oecc_202107/15993979/?view=) (Speaker)

11:00 am - 12:30 pm

Silicon-Based Mode-Order Converters Using Etching Slots on the Circular Waveguide
(/embedded/session/oecc_202107/1715445/?view=)



Optical Devices and Modules

Room 4



Live Stream: Join stream

- Yin Xu (/embedded/speaker/oecc_202107/16258185/?view=) (Speaker) Prof., Jiangnan University

11:00 am - 12:30 pm

A Metasurface Doublet for Compactly and Widely Zooming Imaging
(/embedded/session/oecc_202107/1715446/?view=)



Nanophotonics and SDM Devices

Room 5



Live Stream: Join stream

- Xing Feng (/embedded/speaker/oecc_202107/16188681/?view=) (Speaker) student, Huazhong University of Science and Technology

11:00 am - 12:30 pm

Cascaded Higher-order Soliton Compression in Silicon Nanophotonic Wire Waveguide at 2.8 μm
(/embedded/session/oecc_202107/1715447/?view=)



Nanophotonics and SDM Devices

Room 5



Live Stream: Join stream

- Jiayao Huang (/embedded/speaker/oecc_202107/16307199/?view=) (Speaker) PhD student, Peking University

11:00 am - 12:30 pm

Dual-layer polarization beam splitting grating coupler with low polarization dependent loss
(/embedded/session/oecc_202107/1715448/?view=)



Nanophotonics and SDM Devices

Room 5



Live Stream: Join stream

- Yaqi Han (/embedded/speaker/oecc_202107/16342645/?view=) (Speaker) Tsinghua-Berkeley Shenzhen Institute

11:00 am - 12:30 pm

Coherent and Octave-Spanning Supercontinuum Generations in a Polarization-Insensitive Reverse-Ridge AlGaAs Waveguide
(/embedded/session/oecc_202107/1715449/?view=)



Nanophotonics and SDM Devices

Room 5



Live Stream: Join stream

- Luqi Zhang (/embedded/speaker/oecc_202107/16207194/?view=) (Speaker) BUPT

11:00 am - 12:30 pm

Performance Enhancement of Heterojunction Silicon Solar Cells Based on LDS Effect of Various Concentrations of Eu-Doped Phosphors
(/embedded/session/oecc_202107/1715450/?view=)



Nanophotonics and SDM Devices

Room 5



Live Stream: Join stream

- Yu-Tsen Tsai (/embedded/speaker/oecc_202107/16342646/?view=) (Speaker)


11:00 am - 12:30 pm

Enhancing performance of planar thin-film silicon solar cell using TiO₂ ARC and luminescent down-shifting layers.

(/embedded/session/oecc_202107/1715451/?view=)

Nanophotonics and SDM Devices

Room 5

 Live Stream: Join stream

- Wei-Chih Chiu (/embedded/speaker/oecc_202107/16036236/?view=) (Speaker)




11:00 am - 12:30 pm

On-chip Subwavelength Tilt Fork Grating for Vortex Beam Generation and Manipulation

(/embedded/session/oecc_202107/1715452/?view=)

Nanophotonics and SDM Devices

Room 5

 Live Stream: Join stream

- Shuang Zheng (/embedded/speaker/oecc_202107/16342647/?view=) (Speaker)




11:00 am - 12:30 pm

Cost evaluation of ROADMs architectures in Spaced Division Multiplexed Elastic Optical Network

(/embedded/session/oecc_202107/1715453/?view=)

Nanophotonics and SDM Devices

Room 5

 Live Stream: Join stream

- Zhenhao Wang (/embedded/speaker/oecc_202107/16227075/?view=) (Speaker)




11:00 am - 12:30 pm

A thin-film optical filter with in-cavity strongly-coupled silver nanoparticles

(/embedded/session/oecc_202107/1715454/?view=)

Nanophotonics and SDM Devices

Room 5

 Live Stream: Join stream

- Yangxi Zhang (/embedded/speaker/oecc_202107/16342648/?view=) (Speaker) Postdoctoral fellow, The Hong Kong Polytechnic University




11:00 am - 12:30 pm

Inverse design of an ultra-compact 3 dB splitter for four modes with dual polarizations

(/embedded/session/oecc_202107/1715455/?view=)

Nanophotonics and SDM Devices

Room 5

 Live Stream: Join stream

- Hongzhi Jin (/embedded/speaker/oecc_202107/16257792/?view=) (Speaker) student, Harbin Institute of technology




11:00 am - 12:30 pm

Low crosstalk multi-mode crossing structure for multimode bound states in the continuum photonic circuits (/embedded/session/oecc_202107/1715456/?view=)

Nanophotonics and SDM Devices

Room 5

 Live Stream: Join stream














- Yue Qin (/embedded/speaker/oecc_202107/16342649/?view=) (Speaker)





11:00 am - 12:30 pm

High Resolution On-chip Spectrometer Based On




	<div>Si3N4 Microring Array (/embedded/session/oecc_202107/1715457/?view=)</div> <div>Nanophotonics and SDM Devices</div> <div>Room 5</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Kangxinwen Kang (/embedded/speaker/oecc_202107/16422652/?view=) (Speaker) </div>	
11:00 am - 12:30 pm	<div>Selective Regrown Core-shell Nanowires Using Self-catalytic VLS Mode (/embedded/session/oecc_202107/1715458/?view=)</div> <div>Nanophotonics and SDM Devices</div> <div>Room 5</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Kei Kuwahara (/embedded/speaker/oecc_202107/16342650/?view=) (Speaker) Sophia University </div>	
11:00 am - 12:30 pm	<div>Self-locked optical parametric oscillation in a highly doped silica glass slot ring resonator (/embedded/session/oecc_202107/1715459/?view=)</div> <div>Nanophotonics and SDM Devices</div> <div>Room 5</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Guangkuo Li (/embedded/speaker/oecc_202107/16342651/?view=) (Speaker) PhD student, City University of Hong Kong </div>	
11:00 am - 12:30 pm	<div>Comparative Studies of Atmospheric Turbulence Effects on Orbital Angular Momentum Beams (/embedded/session/oecc_202107/1715460/?view=)</div> <div>Nanophotonics and SDM Devices</div> <div>Room 5</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Yuki Murakami (/embedded/speaker/oecc_202107/16184567/?view=) (Speaker) Student, Tokushima University </div>	
11:00 am - 12:30 pm	<div>A compact nanobeam microcavity spectrometer assisted by computational reconstruction (/embedded/session/oecc_202107/1715461/?view=)</div> <div>Nanophotonics and SDM Devices</div> <div>Room 5</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Jiahui Zhang (/embedded/speaker/oecc_202107/16252132/?view=) (Speaker) </div>	
11:00 am - 12:30 pm	<div>Programmable Multifunctional Plasmonic Waveguide System Using Coding Metamaterials (/embedded/session/oecc_202107/1715462/?view=)</div> <div>Nanophotonics and SDM Devices</div> <div>Room 5</div> <div>  Live Stream: Join stream <ul style="list-style-type: none"> Yihang Dan (/embedded/speaker/oecc_202107/16297942/?view=) (Speaker) Student, Beijing University of Posts and Telecommunications </div>	
11:00 am - 12:30 pm	<div>Exceptional points and non-chiral mode conversion of hybrid-modes in a manifold coupled planar waveguide (/embedded/session/oecc_202107/1715463/?view=)</div> <div>Nanophotonics and SDM Devices</div> <div>Room 5</div>	


-  Live Stream: Join stream
- Anubhav Paul (/embedded/speaker/oecc_202107/16342652/?view=) (Speaker) M.Sc. Student, Indian Institute of Technology Jodhpur

11:00 am - 12:30 pm **Sensitivity Enhanced Distributed Brillouin Curvature Sensor based on Erbium-Doped Few-Mode Fiber** 
(/embedded/session/oecc_202107/1715464/?view=)

Optical Sensing, Measurement and Imaging


Room 6


-  Live Stream: Join stream
- Pengbai Xu (/embedded/speaker/oecc_202107/16342653/?view=) (Speaker) Dr., Guangdong University of Technology

11:00 am - 12:30 pm **Performance Characterization of High-Speed InAlAs Avalanche Photodiode with Double Passivation** 
(/embedded/session/oecc_202107/1715465/?view=)

Optical Sensing, Measurement and Imaging


Room 6


-  Live Stream: Join stream
- Meng Chien Wu (/embedded/speaker/oecc_202107/16097088/?view=) (Speaker) Studnet, National Taipei University of Technology

11:00 am - 12:30 pm **A Novel High-sensitivity Accelerometer Based on Dual FBGs** 
(/embedded/session/oecc_202107/1715466/?view=)

Optical Sensing, Measurement and Imaging


Room 6


-  Live Stream: Join stream
- Yu Wei (/embedded/speaker/oecc_202107/16342654/?view=) (Speaker)

11:00 am - 12:30 pm **Continuous Blood Pressure Monitoring Based on Wearable Optical Fiber Interferometry Wristband** 
(/embedded/session/oecc_202107/1715467/?view=)

Optical Sensing, Measurement and Imaging


Room 6


-  Live Stream: Join stream
- Xiao Chen (/embedded/speaker/oecc_202107/16223672/?view=) (Speaker) Soochow University

11:00 am - 12:30 pm **Beat-to-Beat Heart Rate Estimation from MZI-BCG Signal Based on Hierarchical Clustering** 
(/embedded/session/oecc_202107/1715468/?view=)

Optical Sensing, Measurement and Imaging


Room 6

-  Live Stream: Join stream
- Huaili Zeng (/embedded/speaker/oecc_202107/16342655/?view=) (Speaker) University of Electronic Science and Technology of China













11:00 am - 12:30 pm **Non-invasive Highly Sensitive Under Mattress Vital Signs Monitoring Based on Fiber Sagnac Loop** 
(/embedded/session/oecc_202107/1715469/?view=)










Optical Sensing, Measurement and Imaging

Room 6

-  Live Stream: Join stream
- Huaili Zeng (/embedded/speaker/oecc_202107/16342655/?view=) (Speaker) University of Electronic Science and Technology of China


11:00 am - 12:30 pm **Unobtrusive Sleep-Wake Discrimination Based on** 

	<p>Arched Carbon Fiber Structure Aided Highly Sensitive Under Mattress MZI-BCG Sensor and SVM (/embedded/session/oecc_202107/1715470/?view=)</p> <p>Optical Sensing, Measurement and Imaging</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • 徐伟 (/embedded/speaker/oecc_202107/16342657/?view=) (Speaker) 中国科学院大学 	
11:00 am - 12:30 pm	<p>Non-invasive heart rate variability measurement during sleep based on fiber optic sensor (/embedded/session/oecc_202107/1715471/?view=)</p> <p>Optical Sensing, Measurement and Imaging</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Lyu Weimin (/embedded/speaker/oecc_202107/16342658/?view=) (Speaker) 	
11:00 am - 12:30 pm	<p>Vehicle recognition based on improved PPF algorithm (/embedded/session/oecc_202107/1715472/?view=)</p> <p>Optical Sensing, Measurement and Imaging</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Yong Zuo (/embedded/speaker/oecc_202107/16224491/?view=) (Speaker) Associate Professor, Beijing University of Posts and Telecommunications 	
11:00 am - 12:30 pm	<p>A LiDAR range image noise suppression method based on local clustering (/embedded/session/oecc_202107/1715473/?view=)</p> <p>Optical Sensing, Measurement and Imaging</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Yong Zuo (/embedded/speaker/oecc_202107/16224491/?view=) (Speaker) Associate Professor, Beijing University of Posts and Telecommunications 	
11:00 am - 12:30 pm	<p>Temperature Measurement Range Changeability of Ethernet-based Optical Fiber Sensing System Using an Optical Attenuator (/embedded/session/oecc_202107/1715474/?view=)</p> <p>Optical Sensing, Measurement and Imaging</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Atsuki Imada (/embedded/speaker/oecc_202107/15993992/?view=) (Speaker) japan 	
11:00 am - 12:30 pm	<p>On-chip high-sensitivity ultrasound detector based on the high-Q bound states in the continuum in chalcogenide glass photonic crystal slab (/embedded/session/oecc_202107/1715475/?view=)</p> <p>Optical Sensing, Measurement and Imaging</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Yaoming Feng (/embedded/speaker/oecc_202107/16291395/?view=) (Speaker) Sun Yat-sen University 	
11:00 am - 12:30 pm	<p>Fiber Fluid-pressure Sensor with Extended Air Cavity (/embedded/session/oecc_202107/1715476/?view=)</p> <p>Optical Sensing, Measurement and Imaging</p> <p>Room 6</p>	

	<p>Live Stream: Join stream</p> <ul style="list-style-type: none"> Pengfei Zhang (/embedded/speaker/oecc_202107/16267666/?view=) (Speaker) Shenzhen Technology University 	
11:00 am - 12:30 pm	<p>A Novel D-type Stamp-like Photonic Quasicrystal Fiber Terahertz Refractive Index Sensor (/embedded/session/oecc_202107/1715477/?view=)</p> <p>Optical Sensing, Measurement and Imaging</p> <p>Room 6</p> <p>Live Stream: Join stream</p> <ul style="list-style-type: none"> Aruna Gandhi M S (/embedded/speaker/oecc_202107/16307828/?view=) (Speaker) Research Associate, Peking University, Shenzhen Graduate School 	
11:00 am - 12:30 pm	<p>A high resolution disordered dispersion imaging spectrometer (/embedded/session/oecc_202107/1715478/?view=)</p> <p>Optical Sensing, Measurement and Imaging</p> <p>Room 6</p> <p>Live Stream: Join stream</p> <ul style="list-style-type: none"> Xin-yang Zhao (/embedded/speaker/oecc_202107/16342659/?view=) (Speaker) 	
11:00 am - 12:30 pm	<p>Novel Earth Pressure Cell with Double-FBG Sensing Diaphragm for Measuring Vertical and Lateral Effective Stresses in Seabed Soils (/embedded/session/oecc_202107/1793062/?view=)</p> <p>room6</p>	
2:00 pm - 2:30 pm	<p>Low-Complexity Nonlinear Electrical Equalization for Directly Modulated Laser-based Transmission Systems (/embedded/session/oecc_202107/1682521/?view=)</p> <p>DSP in direct detection</p> <p>Room 1</p> <p>Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Hoon Kim (/embedded/speaker/oecc_202107/15930542/?view=) (Speaker) Professor, KAIST, School of Electrical Engineering 	
2:00 pm - 3:00 pm	<p>Underwater Wireless Optical Communication (/embedded/session/oecc_202107/1682766/?view=)</p> <p>Visible Light Communications</p> <p>Room 2</p> <p>Live Stream: Join stream</p> <ul style="list-style-type: none"> Boon S. Ooi (/embedded/speaker/oecc_202107/15930546/?view=) (Speaker) Professor of Electrical and Computer Engineering, KAUST 	
2:00 pm - 3:00 pm	<p>Silica optical fibres based on 3D printing technologies (/embedded/session/oecc_202107/1682478/?view=)</p> <p>Fiber Fabrication and Materials</p> <p>Room 3</p> <p>Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Gang-Ding Peng (/embedded/speaker/oecc_202107/15930557/?view=) (Speaker) Professor, UNSW Sydney 	
2:00 pm - 2:30 pm	<p>Photonic Artificial Intelligence Using Complex Photonics: Reservoir Computing and Decision Making (/embedded/session/oecc_202107/1682582/?view=)</p>	

Artificial Intelligences and Novel Methods in Optics and Photonics

Room 4

 Live Stream: Join stream

 Recorded Video: Watch video

- **Atsushi Uchida** (/embedded/speaker/oecc_202107/15930570/?view=) (Speaker) Professor, Saitama University


2:00 pm - 3:00 pm


Multimode Silicon Photonics Device
(/embedded/session/oecc_202107/1682616/?view=)



Silicon photonic waveguides and devices

Room 5

 Live Stream: Join stream

 Recorded Video: Watch video

- **Daoxin Dai** (/embedded/speaker/oecc_202107/15930581/?view=) (Speaker) Professor, Zhejiang University


2:00 pm - 2:30 pm

SDM Fibers: From Technology to Product
(/embedded/session/oecc_202107/1682751/?view=)



SDM Related Fibers

Room 6

 Live Stream: Join stream

- **Ansion L.M.Xiong** (/embedded/speaker/oecc_202107/16023361/?view=) (Speaker)


2:30 pm - 2:45 pm


Comparison of Dispersion Pre-compensation Based Double Sideband and KK Receiver Based Single Sideband Signal
(/embedded/session/oecc_202107/1682522/?view=)



DSP in direct detection

Room 1

 Live Stream: Join stream

 Recorded Video: Watch video

- **Qi Wu** (/embedded/speaker/oecc_202107/16521860/?view=) (Speaker) paper presentation, Shanghai Jiao Tong University


2:30 pm - 3:00 pm


A complete, parallel and autonomous photonic neural network in a semiconductor VCSEL laser
(/embedded/session/oecc_202107/1682583/?view=)



Artificial Intelligences and Novel Methods in Optics and Photonics

Room 4

 Live Stream: Join stream

 Recorded Video: Watch video

- **D. Brunner** (/embedded/speaker/oecc_202107/16023252/?view=) (Speaker)


2:30 pm - 2:45 pm


Polarization-maintaining fiber with elliptical core supporting 18 modes for mode division multiplexing
(/embedded/session/oecc_202107/1682752/?view=)



SDM Related Fibers

Room 6

 Live Stream: Join stream



















 Recorded Video: Watch video








- **Tongxin Yang** (/embedded/speaker/oecc_202107/16177729/?view=) (Speaker) Graduate, Beijing University of Posts and Telecommunications

2:45 pm - 3:00 pm


















Handling Multilayer Neural Network Nonlinear Equalizer Complexity and overfitting Challenges Using L1-Regularization for 112Gbps Optical Interconnects
(/embedded/session/oecc_202107/1682523/?view=)






































	DSP in direct detection Room 1  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> Govind Yadav (/embedded/speaker/oecc_202107/16853886/?view=) (Speaker) PhD student , NTHU Taiwan 	
2:45 pm - 3:00 pm	Polarization-Maintaining Fiber Long-Period Grating Based Broadband LP01-LP11b Mode Converter (/embedded/session/oecc_202107/1682753/?view=)  SDM Related Fibers Room 6  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> Chen Jiang (/embedded/speaker/oecc_202107/16177730/?view=) (Speaker) PhD Student, Shanghai University 	
3:00 pm - 3:15 pm	Pilot Symbol-Free Iterative Optical Field Reconstruction for Power Fading Mitigation in Short-Reach IM-DD Links (/embedded/session/oecc_202107/1682524/?view=)  DSP in direct detection Room 1  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> Yixiao Zhu (/embedded/speaker/oecc_202107/16023207/?view=) (Speaker) Shanghai Jiao Tong University 	
3:00 pm - 3:15 pm	Two-Way White-Lighting and WDM VLC-UWOC Integrated Systems (/embedded/session/oecc_202107/1682767/?view=)  Visible Light Communications Room 2  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> Poh-Suan Chang (/embedded/speaker/oecc_202107/16853888/?view=) (Speaker) 	
3:00 pm - 3:30 pm	Advanced Soft Optical and Electronic Fiber Devices (/embedded/session/oecc_202107/1682479/?view=)  Fiber Fabriation and Materials Room 3  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> Fabien Sorin (/embedded/speaker/oecc_202107/15930564/?view=) (Speaker) Associate Professor, EPFL 	
3:00 pm - 3:15 pm	A Hybrid CNN-LSTM Approach for Laser Remaining Useful Life Prediction (/embedded/session/oecc_202107/1682584/?view=)  Artificial Intelligences and Novel Methods in Optics and Photonics Room 4  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> Khouloud Abdelli (/embedded/speaker/oecc_202107/16023254/?view=) (Speaker) ADVA Optical Networking 	
3:00 pm - 3:30 pm	CMOS-compatible Low-loss and Large-bandwidth fiber-to-chip edge couplers for a silicon photonics platform (/embedded/session/oecc_202107/1682617/?view=) 	

	<p>(/embedded/session/oecc_202107/1682017/?view=)</p> <p>Silicon photonic waveguides and devices</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Xuhan Guo (/embedded/speaker/oecc_202107/15930591/?view=) (Speaker) Associate Professor, Shanghai Jiao Tong University 	
3:00 pm - 3:30 pm	<p>Space Division Multiplexing Fiber Design Based on Orbital Angular Momentum Modes </p> <p>(/embedded/session/oecc_202107/1682754/?view=)</p> <p>SDM Related Fibers</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Jiajing Tu (/embedded/speaker/oecc_202107/15930594/?view=) (Speaker) Dr, Jinan University 	
3:15 pm - 3:30 pm	<p>Reservoir Computing based Signal Recovery for 56 Gb/s PAM4 System </p> <p>(/embedded/session/oecc_202107/1682525/?view=)</p> <p>DSP in direct detection</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Xiaoyue Yu (/embedded/speaker/oecc_202107/16023208/?view=) (Speaker) 	
3:15 pm - 3:30 pm	<p>Asynchronous Visible Light Positioning Based on Orthogonal Pseudo-Random Codes </p> <p>(/embedded/session/oecc_202107/1682768/?view=)</p> <p>Visible Light Communications</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Zhongxu Liu (/embedded/speaker/oecc_202107/15992614/?view=) (Speaker) research assistant, Shenzhen Research Institute of The Hong Kong Polytechnic University 	
3:15 pm - 3:30 pm	<p>Frequency Chirp Measurement Method Using a Probe Light and Bandpass Filter </p> <p>(/embedded/session/oecc_202107/1682585/?view=)</p> <p>Artificial Intelligences and Novel Methods in Optics and Photonics</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Ryo Katori (/embedded/speaker/oecc_202107/16023255/?view=) (Speaker) University of Electro-Communications 	
4:00 pm - 5:00 pm	<p>Photonics in Intra-Datacenter Networks: Architecture and Future Developments </p> <p>(/embedded/session/oecc_202107/1682526/?view=)</p> <p>Optical networks I</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Lena Wosinska (/embedded/speaker/oecc_202107/15930534/?view=) (Speaker) Professor, Chalmers University of Technology 	
4:00 pm - 4:30 pm	<p>Optimizing Future Power Constrained Submarine Networks </p> <p>(/embedded/session/oecc_202107/1682769/?view=)</p>	

	<p>(/embedded/session/oecc_202107/1602702/?view=)</p> <p>Free-Space Optical Communications</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Jean-Christophe Antona (/embedded/speaker/oecc_202107/15930547/?view=) (Speaker) ASN
4:00 pm - 5:00 pm	<p>Photonic Integrated Modules for Microwave Systems </p> <p>(/embedded/session/oecc_202107/1682586/?view=)</p> <p>Photonic Integrated Devices and Applications</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Antonella Bogoni (/embedded/speaker/oecc_202107/16023256/?view=) (Speaker) Prof, CNIT
4:00 pm - 4:30 pm	<p>Highly Sensitivity Gas Detection with Optical Fibers </p> <p>(/embedded/session/oecc_202107/1682618/?view=)</p> <p>Novel Fiber Devices and Gratings</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Wei Jin (/embedded/speaker/oecc_202107/16177726/?view=) (Speaker) City University of Hong Kong
4:00 pm - 5:00 pm	<p>Fiber-optic Distributed Acoustic Sensors (DAS): A Review </p> <p>(/embedded/session/oecc_202107/1682640/?view=)</p> <p>Optical Fiber Sensing Technology</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Zuyuan He (/embedded/speaker/oecc_202107/15930612/?view=) (Speaker) Professor, Shanghai Jiao Tong University
4:30 pm - 4:45 pm	<p>Generative Adversarial Network-based Channel Modeling for Free-Space Optical Communication </p> <p>(/embedded/session/oecc_202107/1682770/?view=)</p> <p>Free-Space Optical Communications</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Wenbin Chen (/embedded/speaker/oecc_202107/16023371/?view=) (Speaker) Institute of Information Photonics and Optical Communication, Beijing University of Posts and Telecommunications
4:30 pm - 5:00 pm	<p>New Developments in Gas-Filled Hollow-Fibre Nonlinear Optics </p> <p>(/embedded/session/oecc_202107/1682481/?view=)</p> <p>Fiber Techniques and Devices</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Christian Brahms (/embedded/speaker/oecc_202107/16853892/?view=) (Speaker) Heriot-Watt University
4:30 pm - 5:00 pm	<p>Ultraspectral Imaging Based on Micro-spectrometers </p> <p>(/embedded/session/oecc_202107/1682644/?view=)</p> <p>Novel Optical Measurement Technology</p>

	Room 5  Live Stream: Join stream <ul style="list-style-type: none"> • Yidong Huang (/embedded/speaker/oecc_202107/15930623/?view=) (Speaker)
4:45 pm - 5:00 pm	Demonstration of MMW over Fiber-FSO-Wireless 5G QPSK Transmission in Mid L-band Wavelength Region  (/embedded/session/oecc_202107/1682771/?view=) Free-Space Optical Communications Room 2  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Qazi Tareq (/embedded/speaker/oecc_202107/16177715/?view=) (Speaker)
5:00 pm - 5:15 pm	Experimental Assessment of Fast and Reconfigurable Optical Wireless Data Center Networks  (/embedded/session/oecc_202107/1682527/?view=) Optical networks I Room 1  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Shaojuan Zhang (/embedded/speaker/oecc_202107/16023209/?view=) (Speaker) Eindhoven University of Technology (The Netherlands)
5:00 pm - 5:15 pm	A Bidirectional 256-Gb/s PAM4 Fiber-FSO Converged System  (/embedded/session/oecc_202107/1682772/?view=) Free-Space Optical Communications Room 2  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Yu-Ting Chen (/embedded/speaker/oecc_202107/15993984/?view=) (Speaker)
5:00 pm - 5:15 pm	Optical Characterization of Installed Step-Index Profile Standard Cladding Multi-Core Fiber with Multiconnection  (/embedded/session/oecc_202107/1682482/?view=) Fiber Techniques and Devices Room 3  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Daiki Soma (/embedded/speaker/oecc_202107/16021523/?view=) (Speaker) Research Engineer, KDDI Research, Inc.
5:00 pm - 5:30 pm	Metasurface on Silicon Photonics for Beam Steering and Focusing  (/embedded/session/oecc_202107/1682587/?view=) Photonic Integrated Devices and Applications Room 4  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • You-Chia Chang (/embedded/speaker/oecc_202107/15930574/?view=) (Speaker) Assistant professor, National Yang Ming Chiao Tung University
5:00 pm - 5:15 pm	Hollow-Core Fiber Connector  (/embedded/session/oecc_202107/1682620/?view=) Novel Fiber Devices and Gratings Room 5


	 Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Ryo Nagase (/embedded/speaker/oecc_202107/16023274/?view=) (Speaker) Professor, Chiba Institute of Technology
5:00 pm - 5:15 pm	Anti-phase Dual Wavelength Phase Demodulation for Extrinsic Fabry-Perot Interferometric Sensors (/embedded/session/oecc_202107/1682641/?view=)  Optical Fiber Sensing Technology Room 6  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Wanjin Zhang (/embedded/speaker/oecc_202107/16023286/?view=) (Speaker) Doctor, Huazhong University of Science and Technology
5:15 pm - 5:30 pm	Evaluation of a 1x8 Photonic Integrated WDM Wavelength Selective Switch for Optical Data Center Networks (/embedded/session/oecc_202107/1682528/?view=)  Optical networks I Room 1  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Kristif Prifti (/embedded/speaker/oecc_202107/16023210/?view=) (Speaker) PhD Candidate, TU/e Eindhoven University of Technology
5:15 pm - 5:30 pm	Joint Scrambler and Filter for Outdoor 70 m Duplex Visible Light Communication System Providing Robustness to Solar Irradiance (/embedded/session/oecc_202107/1682773/?view=)  Free-Space Optical Communications Room 2  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Weishu Xu (/embedded/speaker/oecc_202107/16023374/?view=) (Speaker) Beijing University of Posts and Telecommunications
5:15 pm - 5:30 pm	Multi-fiber connection technique employing solid refractive index matching material (/embedded/session/oecc_202107/1682483/?view=)  Fiber Techniques and Devices Room 3  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Yoshiteru Abe (/embedded/speaker/oecc_202107/16021524/?view=) (Speaker) NTT
5:15 pm - 5:30 pm	Mode Converters of High Order Core Mode Coupling Basedon Long-Period Fiber Gratings (/embedded/session/oecc_202107/1682621/?view=)  Novel Fiber Devices and Gratings Room 5  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Yuehui Ma (/embedded/speaker/oecc_202107/16023275/?view=) (Speaker)
5:15 pm - 5:30 pm	Two-end-access BOCDR for systematic error compensation (/embedded/session/oecc_202107/1682642/?view=) 

	<p>(/embedded/session/oecc_202107/1602042/?view=)</p> <p>Optical Fiber Sensing Technology</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Guangtao Zhu (/embedded/speaker/oecc_202107/16023287/?view=) (Speaker) Graduate student, Yokohama National University
5:30 pm - 5:45 pm	<p>GAIA: A Contention-free Optical Data Center Network Based on Arrayed Waveguide Grating Router. </p> <p>(/embedded/session/oecc_202107/1682529/?view=)</p> <p>Optical networks I</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Jinzhe Che (/embedded/speaker/oecc_202107/16023211/?view=) (Speaker)
5:30 pm - 5:45 pm	<p>Channel Modeling for Ground-to-UAV Free-Space Optical Communication Systems </p> <p>(/embedded/session/oecc_202107/1682774/?view=)</p> <p>Free-Space Optical Communications</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Wenjing Guo (/embedded/speaker/oecc_202107/16023375/?view=) (Speaker)
5:30 pm - 5:45 pm	<p>Mach-Zehnder Interferometer and Bragg Grating combined Fiber Device by Femtosecond Laser Inscription </p> <p>(/embedded/session/oecc_202107/1682484/?view=)</p> <p>Fiber Techniques and Devices</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Wenqing Yang (/embedded/speaker/oecc_202107/16021525/?view=) (Speaker) Student, National Huaqiao University
5:30 pm - 6:00 pm	<p>Silicon Photonics WDM (De)Multiplexers </p> <p>(/embedded/session/oecc_202107/1682588/?view=)</p> <p>Photonic Integrated Devices and Applications</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Yung-Jr Hung (/embedded/speaker/oecc_202107/15930578/?view=) (Speaker) National Sun Yat-sen University
5:30 pm - 5:45 pm	<p>Simultaneous Generation of Two LFM Signals Using an Integrated Chirped Grating-assisted Contra-directional Coupler in a Sagnac Dual-loop </p> <p>(/embedded/session/oecc_202107/1682622/?view=)</p> <p>Novel Fiber Devices and Gratings</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Dongyu Wang (/embedded/speaker/oecc_202107/16023276/?view=) (Speaker)
5:30 pm - 5:45 pm	<p>Self-synchronized ultrafast temporal-spectral characterization system for revealing soliton dynamics </p>

(/embedded/session/oecc_202107/1682643/?view=)

Optical Fiber Sensing Technology

Room 6

 Live Stream: Join stream

 Recorded Video: Watch video

- Yulong Cao (/embedded/speaker/oecc_202107/16023288/?view=) (Speaker) Chongqing University

5:45 pm - 6:00 pm


QoS-based Flow Classification and Forwarding in Hybrid Electrical/Optical Switched Data Center Networks



(/embedded/session/oecc_202107/1682530/?view=)

Optical networks I

Room 1

 Live Stream: Join stream

 Recorded Video: Watch video

- Jie Zhang (/embedded/speaker/oecc_202107/16293648/?view=) (Speaker)

5:45 pm - 6:00 pm


Variable Focus Lens-Based Optical Beam Steering and Adaptive Beam Control Techniques for Free-Space Optical Communications



(/embedded/session/oecc_202107/1682775/?view=)

Free-Space Optical Communications

Room 2

 Live Stream: Join stream

 Recorded Video: Watch video

- Vuong V. Mai (/embedded/speaker/oecc_202107/16023376/?view=) (Speaker) Research Assistant Professor, Korea Advanced Institute of Science and Technology (KAIST)

5:45 pm - 6:00 pm


An Ultra-Short and Broadband Dual-Core Photonic Crystal Fiber Polarization Beam Splitter with a Gold Film Based on the Surface Plasmon Resonance Effect




(/embedded/session/oecc_202107/1682485/?view=)

Fiber Techniques and Devices

Room 3

 Live Stream: Join stream

 Recorded Video: Watch video

- Yuwei Qu (/embedded/speaker/oecc_202107/16021527/?view=) (Speaker) Doctor, Beijing University of Posts and Telecommunications

5:45 pm - 6:00 pm

Long-Period-Grating Filters Based on Coupling to Leaky Modes in Lithium-Niobate-on-Insulator Waveguides




(/embedded/session/oecc_202107/1682623/?view=)

Novel Fiber Devices and Gratings

Room 5

 Live Stream: Join stream

 Recorded Video: Watch video

- Wei Jin (/embedded/speaker/oecc_202107/16177726/?view=) (Speaker) City University of Hong Kong

Monday, July 5

8:15 am - 9:00 am


Emerging fibre technologies for next generation photonic systems

























(/embedded/session/oecc_202107/1715533/?view=)


















Plenary talk



















Room 7



















 Live Stream: Join stream







	<p>Recorded Video: Watch video</p> <ul style="list-style-type: none"> David Richardson (/embedded/speaker/oecc_202107/16142918/?view=) (Speaker) University of Southampton, UK
9:00 am - 9:45 am	<p>The Latest Development in Optical Signal Processing and AI/Optical Chips </p> <p>(/embedded/session/oecc_202107/1758346/?view=)</p> <p>Plenary talk</p> <p>Room 7</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Paul R. Prucnal (/embedded/speaker/oecc_202107/16342807/?view=) (Speaker)
9:45 am - 10:30 am	<p>Latest Development in Quantum Computing </p> <p>(/embedded/session/oecc_202107/1715534/?view=)</p> <p>Plenary talk</p> <p>Room 7</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Jianwei Pan (/embedded/speaker/oecc_202107/16342806/?view=) (Speaker)
11:00 am - 12:30 pm	<p>Poster Session I Core/ Access/Data Center Networks and Subsystems </p> <p>(/embedded/session/oecc_202107/1793341/?view=)</p> <p>Room 1</p> <p> Live Stream: Join stream</p>
11:00 am - 12:30 pm	<p>Poster Session II Transmission Systems and Technologies </p> <p>(/embedded/session/oecc_202107/1793342/?view=)</p> <p>Room 2</p> <p> Live Stream: Join stream</p>
11:00 am - 12:30 pm	<p>Poster Session III Optical fibers, Fiber Amplifiers and fiber deives </p> <p>(/embedded/session/oecc_202107/1793343/?view=)</p> <p>Room 3</p> <p> Live Stream: Join stream</p>
11:00 am - 12:30 pm	<p>Poster Session VI: Optical Sensing, Measurement and Imaging (/embedded/session/oecc_202107/1793344/?view=) </p> <p>Room 6</p> <p> Live Stream: Join stream</p>
11:00 am - 12:30 pm	<p>Poster Session IV Optical Devices and Modules (/embedded/session/oecc_202107/1793345/?view=) </p> <p>Optical Devices and Modules</p> <p>Room 4</p> <p> Live Stream: Join stream</p>
11:00 am - 12:30 pm	<p>Poster Session V Nanophotonics and SDM Devices (/embedded/session/oecc_202107/1793346/?view=) </p> <p>Room 5</p> <p> Live Stream: Join stream</p>
2:00 pm - 2:30 pm	<p>Self-homodyne coherent detection for short-reach optical interconnection </p> <p>(/embedded/session/oecc_202107/1682531/?view=)</p>



















	<p>Short Reach Transmission</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Ming Tang (/embedded/speaker/oecc_202107/15930543/?view=) (Speaker) HUST
2:00 pm - 3:00 pm	<p>Terabit Transmission Systems (/embedded/session/oecc_202107/1682776/?view=) </p> <p>High Bandwidth Transmission</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Fred Buchali (/embedded/speaker/oecc_202107/15930545/?view=) (Speaker) Nokia Bell Labs
2:00 pm - 3:00 pm	<p>Integrated Microwave Photonics for Photonic Signal Processing and Sensing (/embedded/session/oecc_202107/1682624/?view=) </p> <p>Microwave photonics based devices and sensing</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Robert Minasian (/embedded/speaker/oecc_202107/15930582/?view=) (Speaker) Professor, University of Sydney
2:00 pm - 2:30 pm	<p>Realtime IM/DD MDM Transmission Over Multiple-ring-core FMF for Short-reach Application (/embedded/session/oecc_202107/1682755/?view=) </p> <p>SDM Transmissions</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Juhao Li (/embedded/speaker/oecc_202107/15930596/?view=) (Speaker) PKU
2:00 pm - 2:30 pm	<p>Photonic Integration Based on Si Photonics and Photonic Crystals (/embedded/session/oecc_202107/1682702/?view=) </p> <p>Photonic Crystals and Metasurfaces</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Toshihiko Baba (/embedded/speaker/oecc_202107/15930606/?view=) (Speaker) Professor, Yokohama National University
2:00 pm - 2:30 pm	<p>Polarization-maintaining Fiber Long-period Gratings (/embedded/session/oecc_202107/1682619/?view=) </p> <p>Novel Fiber Devices and Gratings</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Yunqi Liu (/embedded/speaker/oecc_202107/15930589/?view=) (Speaker) Professor, Shanghai University
2:30 pm - 2:45 pm	<p>Local oscillator-less QPSK signal detection using direct detection and fractional Fourier transform (/embedded/session/oecc_202107/1682532/?view=) </p> <p>Short Reach Transmission</p> <p>Room 1</p> <p> Live Stream: Join stream</p>


















	<div>  Recorded Video: Watch video <ul style="list-style-type: none"> Ryohei Kamikawa (/embedded/speaker/oecc_202107/16023213/?view=) (Speaker) student, Osaka University </div>
2:30 pm - 2:45 pm	<div> 25Gb/s Mode Division Multiplexing VCSEL Transmission over Two Modes Using Standard Single-Mode Fiber at 850 nm (/embedded/session/oecc_202107/1682756/?view=)  </div> <div> SDM Transmissions Room 6 <div>  Live Stream: Join stream <div>  Recorded Video: Watch video <ul style="list-style-type: none"> Kangmei Li (/embedded/speaker/oecc_202107/16023364/?view=) (Speaker) </div> </div> </div>
2:30 pm - 2:45 pm	<div> Observation of optomechanics in a nanoscale photonic crystal cavity (/embedded/session/oecc_202107/1682703/?view=)  </div> <div> Photonic Crystals and Metasurfaces Room 4 <div>  Live Stream: Join stream <div>  Recorded Video: Watch video <ul style="list-style-type: none"> Ji Xia (/embedded/speaker/oecc_202107/16023320/?view=) (Speaker) Research PhD candidate, National University of Singapore </div> </div> </div>
2:30 pm - 2:45 pm	<div> Precise Terahertz frequency measurement based on an optoelectronic terahertz comb (/embedded/session/oecc_202107/1682645/?view=)  </div> <div> Novel Optical Measurement Technology Room 5 <div>  Live Stream: Join stream <div>  Recorded Video: Watch video <ul style="list-style-type: none"> Zijie Lu (/embedded/speaker/oecc_202107/16023289/?view=) (Speaker) </div> </div> </div>
2:45 pm - 3:00 pm	<div> Beyond 100Gb/s Nyquist 128/256/512-QAM Subcarrier Modulation Direct Detection Transmission Using O-Band DML with Digital Nonlinearity Mitigation (/embedded/session/oecc_202107/1682533/?view=)  </div> <div> Short Reach Transmission Room 1 <div>  Live Stream: Join stream <div>  Recorded Video: Watch video <ul style="list-style-type: none"> Yixiao Zhu (/embedded/speaker/oecc_202107/16023207/?view=) (Speaker) Shanghai Jiao Tong University </div> </div> </div>
2:45 pm - 3:00 pm	<div> 400G LR4 and 100G CWDM Transmission Over 1x4 Linear Array Multicore Fiber with 125-mm Cladding (/embedded/session/oecc_202107/1682757/?view=)  </div> <div> SDM Transmissions Room 6 <div>  Live Stream: Join stream <div>  Recorded Video: Watch video <ul style="list-style-type: none"> Kangmei Li (/embedded/speaker/oecc_202107/16023364/?view=) (Speaker) </div> </div> </div>
2:45 pm - 3:00 pm	<div> Metasurface doublet-based flat retroreflector for wireless optical communication (/embedded/session/oecc_202107/1682704/?view=)  </div> <div> Photonic Crystals and Metasurfaces </div>

	<p>Photonic Crystals and Metasurfaces</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Hongliang Li (/embedded/speaker/oecc_202107/16023321/?view=) (Speaker) PHD candidate, Kwangwoon University
2:45 pm - 3:00 pm	<p>A microwave photonic phase detector based on a dualpolarizationdual-drive Mach-Zehnder modulator (/embedded/session/oecc_202107/1682646/?view=) </p> <p>Novel Optical Measurement Technology</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Kunlin Shao (/embedded/speaker/oecc_202107/16023290/?view=) (Speaker)
3:00 pm - 3:15 pm	<p>C-Band 100Gbit/s Non-Orthogonal Discrete Multitone over Dispersion-Uncompensated Links (/embedded/session/oecc_202107/1682534/?view=) </p> <p>Short Reach Transmission</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Canyang Xiong (/embedded/speaker/oecc_202107/16177708/?view=) (Speaker)
3:00 pm - 3:30 pm	<p>Extending the Bandwidth of Optical Transmission Systems (/embedded/session/oecc_202107/1682777/?view=) </p> <p>High Bandwidth Transmission</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Robert Killey (/embedded/speaker/oecc_202107/15930552/?view=) (Speaker) Professor of Optical Communications, University College London
3:00 pm - 3:30 pm	<p>Microwave Photonics for Remote Sensing (/embedded/session/oecc_202107/1682625/?view=) </p> <p>Microwave photonics based devices and sensing</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Antonella Bogoni (/embedded/speaker/oecc_202107/16023256/?view=) (Speaker) Prof, CNIT
3:00 pm - 3:15 pm	<p>85.2-Tbit/s Coupled 4-Core Fiber Transmission over 3,120 km Using PS-16QAM Signals (/embedded/session/oecc_202107/1682758/?view=) </p> <p>SDM Transmissions</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Shohei Beppu (/embedded/speaker/oecc_202107/16177731/?view=) (Speaker) KDDI Research, Inc.
3:00 pm - 3:15 pm	<p>Four-modes waveguide crossing utilizing phase-gradient slot array (/embedded/session/oecc_202107/1682705/?view=) </p> <p>Photonic Crystals and Metasurfaces</p>

	Room 4  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Xiaoyuan Guo (/embedded/speaker/oecc_202107/16023322/?view=) (Speaker)
3:00 pm - 3:15 pm	A terahertz photonic imaging radar system based on inverse synthetic aperture technique (/embedded/session/oecc_202107/1682647/?view=)  Novel Optical Measurement Technology Room 5  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Shiwei Wang (/embedded/speaker/oecc_202107/16023291/?view=) (Speaker) Zhejiang University
3:15 pm - 3:30 pm	Optimum Symbol Distribution of Probabilistically Shaped PAM Signals in Amplifier-less IM-DD Systems (/embedded/session/oecc_202107/1682535/?view=)  Short Reach Transmission Room 1  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Daeho Kim (/embedded/speaker/oecc_202107/16023215/?view=) (Speaker) Ph.D, KAIST
3:15 pm - 3:30 pm	Noise Compensation for a Nonlinear Six-mode Fiber Channel through Self-Recycling Training Equalizer (/embedded/session/oecc_202107/1682759/?view=)  SDM Transmissions Room 6  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Tianfeng Zhao (/embedded/speaker/oecc_202107/15993980/?view=) (Speaker)
3:15 pm - 3:30 pm	Dual-polarization and six-mode waveguide crossing based on dielectric metasurface (/embedded/session/oecc_202107/1682706/?view=)  Photonic Crystals and Metasurfaces Room 4  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Zimeng Zhang (/embedded/speaker/oecc_202107/16023323/?view=) (Speaker)
3:15 pm - 3:30 pm	Silicon-based integration of optical pulse waveform analyzer (/embedded/session/oecc_202107/1682648/?view=)  Novel Optical Measurement Technology Room 5  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Masayuki Makino (/embedded/speaker/oecc_202107/16853901/?view=) (Speaker) Student, Osaka University
4:00 pm - 4:15 pm	Accurate Prediction via Artificial Neural Network of OSNR Penalty Induced by Non-uniform WSS Filtering. (/embedded/session/oecc_202107/1682536/?view=)  Optical Network Technology Room 1

	<p>Live Stream: Join stream</p> <p>Recorded Video: Watch video</p> <ul style="list-style-type: none"> Arthur Minakhmetov (/embedded/speaker/oecc_202107/16023216/?view=) (Speaker) WDM terrestrial optical network engineer, Alcatel Submarine Networks / Nokia Corp.
4:00 pm - 4:30 pm	<p>Post Moore Design of Optical AI Cloud Networks (/embedded/session/oecc_202107/1682778/?view=) </p> <p>Machine Learning in Optical Systems and Networks</p> <p>Room 2</p> <p>Live Stream: Join stream</p> <ul style="list-style-type: none"> Maxim Kuschnerov (/embedded/speaker/oecc_202107/15930553/?view=) (Speaker) Director of R&D, Huawei Technologies
4:00 pm - 5:00 pm	<p>Inter-Core Skew and Skew Management for Multicore Fiber Transmission Systems (/embedded/session/oecc_202107/1682760/?view=) </p> <p>SDM Systems</p> <p>Room 6</p> <p>Live Stream: Join stream</p> <p>Recorded Video: Watch video</p> <ul style="list-style-type: none"> Ruben Luis (/embedded/speaker/oecc_202107/15930593/?view=) (Speaker) NICT
4:00 pm - 4:30 pm	<p>Integrated Mid-Infrared Photonics Toward Chip-Scale Sensing Systems (/embedded/session/oecc_202107/1682707/?view=) </p> <p>Metasurfaces</p> <p>Room 4</p> <p>Live Stream: Join stream</p> <p>Recorded Video: Watch video</p> <ul style="list-style-type: none"> Vincent C.Lee (/embedded/speaker/oecc_202107/16023325/?view=) (Speaker)
4:00 pm - 4:30 pm	<p>Fiber Optic Sensing and Biosensing: New Challenges and Perspectives (/embedded/session/oecc_202107/1682649/?view=) </p> <p>Fiber Optic Sensing for New Applications</p> <p>Room 5</p> <p>Live Stream: Join stream</p> <p>Recorded Video: Watch video</p> <ul style="list-style-type: none"> Francesco Chiavaioli (/embedded/speaker/oecc_202107/15930618/?view=) (Speaker) Researcher, National Research Council of Italy (CNR), Institute of Applied Physics "Nello Carrara" (IFAC)
4:15 pm - 4:30 pm	<p>The impact of parameter uncertainty on QoT estimation using GN-based analytical model (/embedded/session/oecc_202107/1682537/?view=) </p> <p>Optical Network Technology</p> <p>Room 1</p> <p>Live Stream: Join stream</p> <p>Recorded Video: Watch video</p> <ul style="list-style-type: none"> Jing Zhou (/embedded/speaker/oecc_202107/15992625/?view=) (Speaker)
4:30 pm - 4:45 pm	<p>Data Analytics and Unsupervised Learning Enabled Proactive Maintenance for Optical Transceivers in Hyperscale Data Centers (/embedded/session/oecc_202107/1682538/?view=) </p>

	<p>Optical Network Technology</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Chunxiao Wang (/embedded/speaker/oecc_202107/16023217/?view=) (Speaker) Alibaba Cloud 	
4:30 pm - 4:45 pm	<p>Machine Learning Based LFM Signal Recovery For Fiber-Connected Radar Networks (/embedded/session/oecc_202107/1682779/?view=)</p> <p>Machine Learning in Optical Systems and Networks</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Zhou Yuewen (/embedded/speaker/oecc_202107/16023377/?view=) (Speaker) Nanjing Univ of Aeronautics and Astronautics 	
4:30 pm - 4:45 pm	<p>Low-Loss Large-MFD Fibers with G.657.A2 Compliant Macro Bending Performance (/embedded/session/oecc_202107/1682487/?view=)</p> <p>Novel fibers for communication</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Shugo Takeuchi (/embedded/speaker/oecc_202107/16021528/?view=) (Speaker) Furukawa Electric Co. Ltd. 	
4:30 pm - 4:45 pm	<p>Mid-infrared Graphene Plasmon Metasurface for Optical Phased Array (/embedded/session/oecc_202107/1682708/?view=)</p> <p>Metasurfaces</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Huiying Zeng (/embedded/speaker/oecc_202107/16023326/?view=) (Speaker) Shanghai Jiao Tong University 	
4:30 pm - 4:45 pm	<p>Temperature-Insensitive Glucose sensor with Fiber Ring Laser inserted by 45° Tilted Fiber Bragg Grating (/embedded/session/oecc_202107/1682650/?view=)</p> <p>Fiber Optic Sensing for New Applications</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Yibin Liu (/embedded/speaker/oecc_202107/16023293/?view=) (Speaker) 	
4:45 pm - 5:00 pm	<p>End-to-End Management of All Optical Disaggregated Network and Applications with Cloud Native Environment for the Smart World Network Infrastructure (/embedded/session/oecc_202107/1682539/?view=)</p> <p>Optical Network Technology</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Yusuke Hirota (/embedded/speaker/oecc_202107/16177709/?view=) (Speaker) 	
4:45 pm - 5:00 pm	<p>Deep Reinforcement Learning-based Spectrum Assignment with Multi-metric Reward Function and</p>	

	<p>Assignment with Multi-Metric Reward Function and Assignable Boundary Slot Mask (/embedded/session/oecc_202107/1682780/?view=)</p> <p>Machine Learning in Optical Systems and Networks</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> Masayuki Shimoda (/embedded/speaker/oecc_202107/16023173/?view=) (Speaker) NTT 	
4:45 pm - 5:00 pm	<p>Extending L-band to 1625nm with Er/P/Ce Co-doped Silicate Fiber (/embedded/session/oecc_202107/1682488/?view=)</p> <p>Novel fibers for communication</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Yang Lou (/embedded/speaker/oecc_202107/16021529/?view=) (Speaker) Huazhong University of Science and Technology 	
4:45 pm - 5:00 pm	<p>Single-Mode Fiber Metalenses based on Dielectric Nanopillars (/embedded/session/oecc_202107/1682709/?view=)</p> <p>Metasurfaces</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Jiaqi QU (/embedded/speaker/oecc_202107/15992626/?view=) (Speaker) 	
4:45 pm - 5:00 pm	<p>Ppb-level ethane detection with hollow-core fiber photothermal spectroscopy (/embedded/session/oecc_202107/1682651/?view=)</p> <p>Fiber Optic Sensing for New Applications</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Feifan Chen (/embedded/speaker/oecc_202107/16177740/?view=) (Speaker) 	
5:00 pm - 5:15 pm	<p>Impairment-Aware Integrated VONE Scheme Based on Routing, Bit Loading, and Spectrum Allocation in EONs (/embedded/session/oecc_202107/1682540/?view=)</p> <p>Optical Network Technology</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Xueqi Ren (/embedded/speaker/oecc_202107/16853887/?view=) (Speaker) 	
5:00 pm - 5:15 pm	<p>Design of compact multi-ring-core few-mode fiber for dense space-division multiplexing in C+L band (/embedded/session/oecc_202107/1682489/?view=)</p> <p>Novel fibers for communication</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Zhuo Wang (/embedded/speaker/oecc_202107/15978828/?view=) (Speaker) PhD student, The Hong Kong Polytechnic University 	
5:00 pm - 5:20 pm	<p>Overview of the Progress in Space-division</p>	

5:00 pm - 5:30 pm

Overview of the Progress in Space-division
Multiplexing Technology
(/embedded/session/oecc_202107/1682761/?view=)



SDM Systems

Room 6



Live Stream: Join stream



Recorded Video: Watch video

- 郭强 (/embedded/speaker/oecc_202107/15930595/?view=)
(Speaker)

5:00 pm - 5:15 pm

Mode tailoring in metasurface and achromatic
application
(/embedded/session/oecc_202107/1682710/?view=)



Metasurfaces

Room 4



Live Stream: Join stream



Recorded Video: Watch video

- Kelei Xi (/embedded/speaker/oecc_202107/16177734/?view=)
(Speaker) master student, University of Shanghai for Science and
Technology

5:00 pm - 5:30 pm

Optical Fiber Sensors Embedded in Soft Structures:
From Industrial Applications to Biomechanics
(/embedded/session/oecc_202107/1682652/?view=)



Fiber Optic Sensing for New Applications

Room 5



Live Stream: Join stream



Recorded Video: Watch video

- Arnaldo Leal-Junior
(/embedded/speaker/oecc_202107/15930620/?view=) (Speaker)
Professor, Federal University of Esp rito Santo

5:15 pm - 5:30 pm

Kalman Filter-based Heavy Hadoop Job Detection
Method for Energy Efficient Hybrid Electro-Optical
Intra-Data Center Networks
(/embedded/session/oecc_202107/1682541/?view=)



Optical Network Technology

Room 1



Live Stream: Join stream



Recorded Video: Watch video

- Masaki Murakami
(/embedded/speaker/oecc_202107/16177710/?view=) (Speaker)
Keio University

5:15 pm - 5:30 pm

Four-level Flicker-mitigation Coding Scheme in the
Non-line-of-sight Optical Camera Communication
System (/embedded/session/oecc_202107/1682782/?
view=)



Machine Learning in Optical Systems and Networks

Room 2



Live Stream: Join stream



Recorded Video: Watch video

- Liqiong Liu (/embedded/speaker/oecc_202107/16177716/?view=)
(Speaker)

5:15 pm - 5:30 pm

Granulated Silica Segmented Cladding Fiber for
Optical Communication
(/embedded/session/oecc_202107/1682490/?view=)



Novel fibers for communication

Room 3




Live Stream: Join stream



Recorded Video: Watch video


- Marzieh Pournoury (/embedded/speaker/oecc_202107/16021530/?view=) (Speaker)
Research Professor, Yonsei University

5:15 pm - 5:30 pm

Ultra-compact Waveguide-Integrated Demultiplexers based on Digital metamaterials 
(/embedded/session/oecc_202107/1682711/?view=)

Metasurfaces


Room 4

 Live Stream: Join stream

 Recorded Video: Watch video


- Yanrong Wang (/embedded/speaker/oecc_202107/15993969/?view=) (Speaker) Student, Beijing University of Posts and Telecommunications

5:30 pm - 5:45 pm

High-power-budget End-to-end Optical Connection with AMCC Superposition of SOA-integrated EA-DFB Transmitter in All-Photonics Network 
(/embedded/session/oecc_202107/1682542/?view=)

Optical Network Technology


Room 1

 Live Stream: Join stream

 Recorded Video: Watch video


- Yasunari Tanaka (/embedded/speaker/oecc_202107/16023222/?view=) (Speaker) employee, NTT Access Network Service Systems Laboratories, NTT Corporation


5:30 pm - 5:45 pm

Real Time Optical Label System for Coherent Optical Wavelength Division Multiplexing Networks 
(/embedded/session/oecc_202107/1682783/?view=)

Machine Learning in Optical Systems and Networks


Room 2

 Live Stream: Join stream

 Recorded Video: Watch video


- Xu Zhang (/embedded/speaker/oecc_202107/16023382/?view=) (Speaker)


5:30 pm - 5:45 pm

Inversely designed four mode fiber with equalized zero dispersion for short reach MDM optical communication 
(/embedded/session/oecc_202107/1682491/?view=)

Novel fibers for communication


Room 3

 Live Stream: Join stream

 Recorded Video: Watch video


- Chen Xinyi (/embedded/speaker/oecc_202107/16021531/?view=) (Speaker) Shanghai Jiao Tong University


5:30 pm - 5:45 pm

Assessing Capacity of FIFO-less Multicore Fiber Transmission in Submarine Cable Systems 
(/embedded/session/oecc_202107/1682762/?view=)

SDM Systems


Room 6

 Live Stream: Join stream

 Recorded Video: Watch video


- Yuta Wakayama (/embedded/speaker/oecc_202107/15993955/?view=) (Speaker) Research Engineer, KDDI Research, Inc.

5:30 pm - 5:45 pm

Toroidal dipole resonances of dielectric symmetry-breaking metasurfaces 
(/embedded/session/oecc_202107/1682712/?view=)

Metasurfaces

Room 4

 Live Stream: Join stream

 Recorded Video: Watch video

- Yankai Chen (/embedded/speaker/oecc_202107/16023328/?view=) (Speaker) HuaZhong university of Science and Technology


5:30 pm - 5:45 pm

Twist Sensor Based on Long-Period Grating Mach-Zehnder Interferometer Inscribed in Double Cladding Fiber (/embedded/session/oecc_202107/1682653/?view=)



Fiber Optic Sensing for New Applications

Room 5

 Live Stream: Join stream

 Recorded Video: Watch video

- Yunqi Liu (/embedded/speaker/oecc_202107/15930589/?view=) (Speaker) Professor, Shanghai University


5:45 pm - 6:00 pm


Deep-reinforced impairment-aware dynamic resource allocation in nonlinear elastic optical networks (/embedded/session/oecc_202107/1682543/?view=)



Optical Network Technology

Room 1

 Live Stream: Join stream

 Recorded Video: Watch video

- Chenglin Shi (/embedded/speaker/oecc_202107/16023223/?view=) (Speaker)

5:45 pm - 6:00 pm


Flexible-rate Photonic-aided Wireless Transmission System at 101-GHz Based on Multi-Band CAP-PAM Modulation (/embedded/session/oecc_202107/1682784/?view=)



Machine Learning in Optical Systems and Networks

Room 2

 Live Stream: Join stream

 Recorded Video: Watch video

- Qinru Li (/embedded/speaker/oecc_202107/16023383/?view=) (Speaker) Southeast University


5:45 pm - 6:00 pm


Low-DMD Ladder Fiber with Dual-Step Trench-Assisted Structure (/embedded/session/oecc_202107/1682492/?view=)



Novel fibers for communication

Room 3

 Live Stream: Join stream

 Recorded Video: Watch video

- Honglin Sun (/embedded/speaker/oecc_202107/16853893/?view=) (Speaker)


5:45 pm - 6:00 pm


Crosstalk Monitoring and Outage Prediction in Multi-core Fibers Based on Multi-task Deep neural network (/embedded/session/oecc_202107/1682763/?view=)



SDM Systems

Room 6

 Live Stream: Join stream

 Recorded Video: Watch video

- Maoqi Zhang (/embedded/speaker/oecc_202107/16023367/?view=) (Speaker)

5:45 pm - 6:00 pm


Bifunctional Fiber Meta-Tip for Polarization-Selective Optical Interconnect




Optical Interconnect
(/embedded/session/oecc_202107/1682713/?view=)

Metasurfaces

Room 4

 Live Stream: Join stream

 Recorded Video: Watch video

- Changyi Zhou (/embedded/speaker/oecc_202107/16177735/?view=) (Speaker)


5:45 pm - 6:00 pm

Digital in-line holographic flow cytometry using a linear array sensor for characterization of Haematococcus pluvialis in microchannel
(/embedded/session/oecc_202107/1682654/?view=)



Fiber Optic Sensing for New Applications

Room 5

 Live Stream: Join stream

- Xiudong Duan (/embedded/speaker/oecc_202107/16293653/?view=) (Speaker) CUG


8:00 pm - 9:30 pm

Online Conference Ceremony
(/embedded/session/oecc_202107/1781047/?view=)



Online Conference Ceremony

Room 7

 Live Stream: Join stream

- P.K.A.Wai (/embedded/speaker/oecc_202107/16342802/?view=) (Speaker)

Tuesday, July 6


8:30 am - 9:30 am


Technology Trends and Challenges of 6G New Radio Access Networks
(/embedded/session/oecc_202107/1682544/?view=)



Wireless over Optics

Room 1

 Live Stream: Join stream

 Recorded Video: Watch video

- Gee-Kung Chang (/embedded/speaker/oecc_202107/15930535/?view=) (Speaker) Professor, Georgia Institute of Technology


8:30 am - 9:00 am


Revisiting Probabilistic Constellation Shaping in Short-reach IM-DD Systems
(/embedded/session/oecc_202107/1682785/?view=)



Constellation shaping Technologies I

Room 2

 Live Stream: Join stream

 Recorded Video: Watch video

- Di Che (/embedded/speaker/oecc_202107/16853889/?view=) (Speaker)


8:30 am - 9:30 am


The Future of Fiber Optic Materials: A Tutorial
(/embedded/session/oecc_202107/1682493/?view=)



Fiber materials and structures

Room 3

 Live Stream: Join stream



















 Recorded Video: Watch video



















- John Ballato (/embedded/speaker/oecc_202107/15930556/?view=) (Speaker) Sirmine Endowed Chair and Professor, Clemson University

8:30 am - 9:00 am

Room Temperature Current Modulation of Plasmonic Nanolasers




	<p>(/embedded/session/oecc_202107/1682589/?view=)</p> <p>Advanced Light Sources and Detectors</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Lu Lu (/embedded/speaker/oecc_202107/15930576/?view=) (Speaker) 	
8:30 am - 9:00 am	<p>Two-dimensional Beamforming Based on Mode Diversity</p> <p>(/embedded/session/oecc_202107/1682626/?view=)</p> <p>Optical devices and signal processing I</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Guijun Hu (/embedded/speaker/oecc_202107/15930590/?view=) (Speaker) 	
8:30 am - 9:00 am	<p>All-fiber Orbital Angular Momentum Mode Generators</p> <p>(/embedded/session/oecc_202107/1682764/?view=)</p> <p>Mode Multiplexer</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Zhiyong Bai (/embedded/speaker/oecc_202107/15930599/?view=) (Speaker) 	
9:00 am - 9:15 am	<p>Optimization on integrated Fourier transform spectrum analyzer for optical performance monitoring</p> <p>(/embedded/session/oecc_202107/1682786/?view=)</p> <p>Constellation shaping Technologies I</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Huaijian Luo (/embedded/speaker/oecc_202107/15465345/?view=) (Speaker) 	
9:00 am - 9:15 am	<p>Low-phase-noise 25-GHz O-band regenerative mode locked laser</p> <p>(/embedded/session/oecc_202107/1682590/?view=)</p> <p>Advanced Light Sources and Detectors</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Hefei Qi (/embedded/speaker/oecc_202107/16023257/?view=) (Speaker) 	
9:00 am - 9:30 am	<p>Nonlinear Dynamics in Ultrafast Mid-infrared Mode-locked Fiber Lasers</p> <p>(/embedded/session/oecc_202107/1682627/?view=)</p> <p>Optical devices and signal processing I</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Pan Wang (/embedded/speaker/oecc_202107/15930588/?view=) (Speaker) Associate Professor, Nankai University 	
9:00 am - 10:00 am	<p>Multiplane Light Conversion Spatial Mode Multiplexers</p>	


	<p>(/embedded/session/oecc_202107/1682765/?view=)</p> <p>Mode Multiplexer</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Nicolas K. Fontaine (/embedded/speaker/oecc_202107/15930592/?view=) (Speaker) Member of Technical Staff, Nokia Bell Labs
9:15 am - 9:30 am	<p>The Impact of Probabilistic Constellation Shaping on Channel Equalization with Constant Modulus Algorithm </p> <p>(/embedded/session/oecc_202107/1682787/?view=)</p> <p>Constellation shaping Technologies I</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Qifeng Yan (/embedded/speaker/oecc_202107/16177717/?view=) (Speaker)
9:15 am - 9:30 am	<p>MQW laser with surface electrodes on directly bonded InP/SiO2/Si substrates </p> <p>(/embedded/session/oecc_202107/1682591/?view=)</p> <p>Advanced Light Sources and Detectors</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Han Xu (/embedded/speaker/oecc_202107/16023258/?view=) (Speaker)
9:30 am - 9:45 am	<p>Bidirectional IFoF Mobile Fronthaul With DSP-based Channel Multiplexer and Demultiplexer </p> <p>(/embedded/session/oecc_202107/1682545/?view=)</p> <p>Wireless over Optics</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Kazuki Tanaka (/embedded/speaker/oecc_202107/16023224/?view=) (Speaker) KDDI Research, Inc.
9:30 am - 9:45 am	<p>Performance Comparison of Different 8-QAM Constellations Used in SEFDM systems </p> <p>(/embedded/session/oecc_202107/1682788/?view=)</p> <p>Constellation shaping Technologies I</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Peiji Song (/embedded/speaker/oecc_202107/16023385/?view=) (Speaker)
9:30 am - 10:00 am	<p>All-fiber Devices Based on Structured Fibers </p> <p>(/embedded/session/oecc_202107/1682494/?view=)</p> <p>Fiber materials and structures</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Limin Xiao (/embedded/speaker/oecc_202107/15930558/?view=) (Speaker) Fudan University
9:30 am - 9:45 am	<p>High output power 214-Gbit/s 4-PAM operation of Hi-FIT AXEL transmitter </p>

(/embedded/session/oecc_202107/1682592/?view=)

Advanced Light Sources and Detectors

Room 4

 Live Stream: Join stream

 Recorded Video: Watch video

• Shigeru Kanazawa

(/embedded/speaker/oecc_202107/16023259/?view=) (Speaker)
NTT


9:30 am - 9:45 am

Compact dual-mode waveguide crossing based on subwavelength gratings assisted multimode-interference couplers

(/embedded/session/oecc_202107/1682628/?view=)

Optical devices and signal processing I

Room 5

 Live Stream: Join stream

 Recorded Video: Watch video

• Caiyue Zhao (/embedded/speaker/oecc_202107/16023278/?view=) (Speaker)


9:45 am - 10:00 am


Cloud and Edge Collaborative Computing for Efficient 5G Optical Fronthaul Network Slicing

(/embedded/session/oecc_202107/1682546/?view=)

Wireless over Optics

Room 1

 Live Stream: Join stream

 Recorded Video: Watch video

• Bingchang Hua (/embedded/speaker/oecc_202107/16023225/?view=) (Speaker) researcher, Purple Mountain Laboratories


9:45 am - 10:00 am


Digital Resolution Enhancer in PS-256QAM Transmission

(/embedded/session/oecc_202107/1682789/?view=)

Constellation shaping Technologies I

Room 2

 Live Stream: Join stream

 Recorded Video: Watch video

• Taowei Jin (/embedded/speaker/oecc_202107/16023386/?view=) (Speaker) Student, University of Electronic Science and Technology of China


9:45 am - 10:00 am

Weak-Resonant Zero-Bias Operational High-Speed UTC-PD up to 160 Gbps Line Rate

(/embedded/session/oecc_202107/1682593/?view=)

Advanced Light Sources and Detectors

Room 4

 Live Stream: Join stream

 Recorded Video: Watch video

• Toshimasa Umezawa

(/embedded/speaker/oecc_202107/16023260/?view=) (Speaker)
NICT


9:45 am - 10:00 am


Broadband tunable filter based on the cascaded contra-directional couplers

(/embedded/session/oecc_202107/1682629/?view=)



















Optical devices and signal processing I

Room 5

 Live Stream: Join stream

 Recorded Video: Watch video

• Shasha Liao (/embedded/speaker/oecc_202107/16023279/?view=) (Speaker)

10:30 am - 10:45 am	<p>An Efficient Approach for Placing Distributed Fiber Optic Sensors with Concurrent Sensing Capability (/embedded/session/oecc_202107/1682547/?view=)</p> <p>Optical networks II</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Zilong Ye (/embedded/speaker/oecc_202107/16177711/?view=) (Speaker) 	
10:30 am - 11:00 am	<p>Machine Learning for Fiber Nonlinearity Compensation: An Example of Interpretable Machine Learning in Optics (/embedded/session/oecc_202107/1682790/?view=)</p> <p>Nonlinearity Compensation</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Alan Lau (/embedded/speaker/oecc_202107/13762364/?view=) (Speaker) 	
10:30 am - 11:00 am	<p>Multicore and Few-mode Fibers and Devices for Optical Interconnects Application (/embedded/session/oecc_202107/1682495/?view=)</p> <p>Multicore fiber and interconnects applications</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Lin Ma (/embedded/speaker/oecc_202107/15930559/?view=) (Speaker) Shanghai Jiao Tong University 	
10:30 am - 11:30 am	<p>PPLN-based optical parametric amplifiers and their applications (/embedded/session/oecc_202107/1682594/?view=)</p> <p>Integrated Sources and Semiconductor Optical Amplifiers</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Takeshi Umeki (/embedded/speaker/oecc_202107/15930569/?view=) (Speaker) 	
10:30 am - 11:30 am	<p>Integrated Lithium Niobate Photonics and Applications (/embedded/session/oecc_202107/1682714/?view=)</p> <p>LiNO3 Photonics</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Marko Loncar (/embedded/speaker/oecc_202107/15930601/?view=) (Speaker) Professor, Harvard University 	
10:30 am - 11:30 am	<p>Harnessing Doubly Resonant Modalities in Fiber Optic Sensors Enables Reliable and High Accuracy Chemical Measurements (/embedded/session/oecc_202107/1682655/?view=)</p> <p>Bio-Chemical optic sensing</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Jacques Albert (/embedded/speaker/oecc_202107/15930613/?view=) (Speaker) 	

view=) (Speaker)

10:45 am - 11:00 am

Reinforcement Learning Based Joint Allocation Scheme in a TWDM-PON Based mMIMO Fronthaul Network
(/embedded/session/oecc_202107/1682548/?view=)



Optical networks II

Room 1



Live Stream: Join stream



Recorded Video: Watch video

- Yuansen CHENG (/embedded/speaker/oecc_202107/16023228/?view=) (Speaker) PhD, CUHK

11:00 am - 11:15 am

VON Provisioning Over Co-Existing Fixed/Flexible Grid Optical Networks
(/embedded/session/oecc_202107/1682549/?view=)



Optical networks II

Room 1



Live Stream: Join stream



Recorded Video: Watch video

- Xiaosong Yu (/embedded/speaker/oecc_202107/16023229/?view=) (Speaker)

11:00 am - 11:15 am

Imbalanced Digital Back Propagation for Nonlinear Optical Fiber Transmissions
(/embedded/session/oecc_202107/1682791/?view=)



Nonlinearity Compensation

Room 2



Live Stream: Join stream



Recorded Video: Watch video

- Xingwen Yi (/embedded/speaker/oecc_202107/16177718/?view=) (Speaker) Prof. , Sun Yat-sen University

11:00 am - 11:15 am

Measurement of Mode Dependent Loss of Randomly-Coupled Multi-Core Fiber using Scrambling Method
(/embedded/session/oecc_202107/1682496/?view=)



Multicore fiber and interconnects applications

Room 3



Live Stream: Join stream



Recorded Video: Watch video

- Takemi Hasegawa (/embedded/speaker/oecc_202107/16021533/?view=) (Speaker) Manager, Sumitomo Electric Industries

11:15 am - 11:30 am

Parallel Computation Offloading Between MEC Servers with Metro Optical Network
(/embedded/session/oecc_202107/1682550/?view=)



Optical networks II

Room 1



Live Stream: Join stream



Recorded Video: Watch video

- Wei Zhang (/embedded/speaker/oecc_202107/16023230/?view=) (Speaker)

11:15 am - 11:30 am

Neural-network-based Generalized Filter for Inter-channel Nonlinear Compensation in Long-haul Optical Transmission
(/embedded/session/oecc_202107/1682792/?view=)




Nonlinearity Compensation

Room 2



Live Stream: Join stream

-  Recorded Video: Watch video
- Zhiyuan Yang (/embedded/speaker/oecc_202107/16023387/?view=) (Speaker) student, Shanghai Jiao Tong University



11:15 am - 11:30 am

Theoretical evaluation of Nonlinear Crosstalk in weakly Multi-core Fiber with Random Perturbations (/embedded/session/oecc_202107/1682497/?view=)



Multicore fiber and interconnects applications

Room 3

-  Live Stream: Join stream
-  Recorded Video: Watch video
- Shulin Jin (/embedded/speaker/oecc_202107/16021534/?view=) (Speaker) Soochow University



11:30 am - 11:45 am

A Reinforcement Learning Based Computing Task Offloading Scheme in Incompletely Expanded C+L-Band Metro Optical Networks (/embedded/session/oecc_202107/1682551/?view=)



Optical networks II

Room 1

-  Live Stream: Join stream
-  Recorded Video: Watch video
- Lihao Liu (/embedded/speaker/oecc_202107/16023231/?view=) (Speaker) Student, Beijing University of Posts and Telecommunications



11:30 am - 11:45 am

FPGA-based Implementation of Artificial Neural Network for Nonlinear Signal-to-Noise Ratio Estimation (/embedded/session/oecc_202107/1682793/?view=)



Nonlinearity Compensation

Room 2

-  Live Stream: Join stream
-  Recorded Video: Watch video
- Lei Liu (/embedded/speaker/oecc_202107/16023388/?view=) (Speaker) student, Shanghai Jiao Tong University



11:30 am - 11:45 am

Four-core Fan-in/Fan-out applicable for O to L-band operation (/embedded/session/oecc_202107/1682498/?view=)



Multicore fiber and interconnects applications

Room 3

-  Live Stream: Join stream
-  Recorded Video: Watch video
- Kengo Watanabe (/embedded/speaker/oecc_202107/16021535/?view=) (Speaker) Furukawa Electric Co., Ltd.



11:30 am - 12:00 pm

Integrated photonic sources and circuits in Lithium Niobate platform (/embedded/session/oecc_202107/1682595/?view=)



Integrated Sources and Semiconductor Optical Amplifiers

Room 4

-  Live Stream: Join stream
-  Recorded Video: Watch video
- Yen-Hung Chen (/embedded/speaker/oecc_202107/15930579/?view=) (Speaker) professor, National Central University


11:30 am - 11:45 am
















High-gain Erbium-doped Waveguide Amplifier on LNOI Platform (/embedded/session/oecc_202107/1682715/?view=)





















LiNO3 Photonics


Room 5

-  Live Stream: Join stream
-  Recorded Video: Watch video
- Kan Wu ([embedded/speaker/oecc_202107/16853899/?view=](/embedded/speaker/oecc_202107/16853899/?view=)) (Speaker) Professor, Shanghai Jiao Tong University

11:30 am - 11:45 am	<p>High sensitivity fiber refractive index sensor using tapered 4-core fiber (embedded/session/oecc_202107/1682656/?view=)</p> <p>Bio-Chemical optic sensing</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none">• Nan-Kuang Chen (embedded/speaker/oecc_202107/16177742/?view=) (Speaker)	
11:45 am - 12:00 pm	<p>Topological Mapping based Failure Recovery in Multi-domain Quantum Key Distribution Networks (embedded/session/oecc_202107/1682552/?view=)</p> <p>Optical networks II</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none">• Jie Zou (embedded/speaker/oecc_202107/16023232/?view=) (Speaker) Beijing University of Posts and Telecommunications	
11:45 am - 12:00 pm	<p>Experimental Demonstration of 80-Gb/s DSB OOK Signal Transmission Over 100-km SSMF with Simplified Volterra Based DFE (embedded/session/oecc_202107/1682794/?view=)</p> <p>Nonlinearity Compensation</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none">• Mingyue Zhu (embedded/speaker/oecc_202107/16023251/?view=) (Speaker)	
11:45 am - 12:00 pm	<p>Multi-Core Fiber Rotated Optical Switch for Remote Optical Fiber Switching (embedded/session/oecc_202107/1682499/?view=)</p> <p>Multicore fiber and interconnects applications</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none">• Chisato Fukai (embedded/speaker/oecc_202107/16021536/?view=) (Speaker) engineer, Nippon Telegraph and Telephone Corporation	
11:45 am - 12:00 pm	<p>Broadband and compact polarization beam splitter in LNOI sub-wavelength gratings (embedded/session/oecc_202107/1682716/?view=)</p> <p>LiNO3 Photonics</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none">• Chunyu Deng (embedded/speaker/oecc_202107/16023331/?view=) (Speaker)	
11:45 am - 12:00 pm	<p>Tunable optofluidic Y-branch waveguide based on counter flow (embedded/session/oecc_202107/1682657/?view=)</p> <p>Bio-Chemical optic sensing</p> <p>Room 6</p>	

	<p>Room 0</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Xiudong Duan (/embedded/speaker/oecc_202107/16293653/?view=) (Speaker) CUG 	
12:00 pm - 12:15 pm	<p>Anomaly Detection Based on Correlative Prediction for Elastic Optical Network (/embedded/session/oecc_202107/1682553/?view=)</p> <p>Optical networks II</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Yu Wan (/embedded/speaker/oecc_202107/16023233/?view=) (Speaker) Beijing University of Posts and Telecommunications 	
12:00 pm - 12:15 pm	<p>Simultaneous Nonlinearity Compensation of C+L-band WDM PDM-QPSK Signals using Inter-band Complementary Spectral Inversion (/embedded/session/oecc_202107/1682795/?view=)</p> <p>Nonlinearity Compensation</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Hiroki Kawahara (/embedded/speaker/oecc_202107/16177719/?view=) (Speaker) 	
12:00 pm - 12:15 pm	<p>Real-time Long-distance Visible Light Communication and Video Transmission over 100-meter POF (/embedded/session/oecc_202107/1682500/?view=)</p> <p>Multicore fiber and interconnects applications</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Yuan Zhang (/embedded/speaker/oecc_202107/16021537/?view=) (Speaker) Tsinghua University 	
12:00 pm - 12:15 pm	<p>Efficient optical amplification in Erbium-doped Lithium Niobate on Insulator waveguides (/embedded/session/oecc_202107/1682596/?view=)</p> <p>Integrated Sources and Semiconductor Optical Amplifiers</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Zhaoxi Chen (/embedded/speaker/oecc_202107/16023261/?view=) (Speaker) 	
12:00 pm - 12:15 pm	<p>Simultaneous Kerr Comb and Efficient Second-Harmonic Generation in a LNOI Microring Resonator Through Dispersion Engineering (/embedded/session/oecc_202107/1682717/?view=)</p> <p>LiNO3 Photonics</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Xiangxiu Zhang (/embedded/speaker/oecc_202107/15993989/?view=) (Speaker) PhD candidate, Tsinghua University 	
12:00 pm - 12:15 pm	<p>Cascaded Long-Period Fiber Grating Liquid Level Sensor at the Dispersion Turning Point (/embedded/session/oecc_202107/1682658/?view=)</p> <p>Bio-Chemical optic sensing</p>	

Room 6

 Live Stream: Join stream

 Recorded Video: Watch video

- Yunqi Liu (/embedded/speaker/oecc_202107/15930589/?view=) (Speaker) Professor, Shanghai University


12:15 pm - 12:30 pm

Performance Evaluation of Dynamic Fiber-Granular Routing Networks with Next-Generation Optical Paths (/embedded/session/oecc_202107/1682554/?view=)



Optical networks II

Room 1

 Live Stream: Join stream

 Recorded Video: Watch video

- Takeshi Matsuo (/embedded/speaker/oecc_202107/15993974/?view=) (Speaker) Nagoya University


12:15 pm - 12:30 pm


Nonlinear Distortions Suppression in Optical Single Sideband Modulation with Tunable Optical Carrier to Sideband Ratio (/embedded/session/oecc_202107/1682796/?view=)



Nonlinearity Compensation

Room 2

 Live Stream: Join stream

 Recorded Video: Watch video

- Yunping Bai (/embedded/speaker/oecc_202107/16023390/?view=) (Speaker)


12:15 pm - 12:30 pm


Feasibility of 25Gb/s MWDM Transmission Over a 15-km G652.D Compliant Fiber for 5G Fronthaul Networks (/embedded/session/oecc_202107/1682501/?view=)



Multicore fiber and interconnects applications

Room 3

 Live Stream: Join stream

 Recorded Video: Watch video

- Xin Chen (/embedded/speaker/oecc_202107/16021538/?view=) (Speaker) Senior Research Associate, Corning Incorporated


12:15 pm - 12:30 pm


Optical phase conjugation characterization in a polarization-selected orthogonal-pumped SOA subsystem (/embedded/session/oecc_202107/1682597/?view=)



Integrated Sources and Semiconductor Optical Amplifiers

Room 4

 Live Stream: Join stream

 Recorded Video: Watch video

- Fan Sun (/embedded/speaker/oecc_202107/15993985/?view=) (Speaker) University of Electronic Science and Technology of China

12:15 pm - 12:30 pm


Beam intensity averaging method for high precision beam control in optical phased array (/embedded/session/oecc_202107/1682718/?view=)



















LiNO3 Photonics



















Room 5

 Live Stream: Join stream

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- Hayato Takemura (/embedded/speaker/oecc_202107/16023332/?view=) (Speaker) graduate student, University of Waseda

12:15 pm - 12:30 pm	<p>Design of long-range SPR sensor based on D-shaped honeycomb-structure MOF with Au-graphene hybrid layers (/embedded/session/oecc_202107/1682659/?view=)</p> <p>Bio-Chemical optic sensing</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Wenyi Bu (/embedded/speaker/oecc_202107/16023298/?view=) (Speaker) student, Huaqiao University 	
2:00 pm - 2:30 pm	<p>Optical Communication Systems: Limits and Possibilities (/embedded/session/oecc_202107/1682555/?view=)</p> <p>Optical Sub-system and applications</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Andrew Ellis (/embedded/speaker/oecc_202107/15930538/?view=) (Speaker) 50th Anniversary Professor of Optical Communications, University of Aston in Birmingham 	
2:00 pm - 2:30 pm	<p>Coherent Detection in Short Reach Applications (/embedded/session/oecc_202107/1682797/?view=)</p> <p>Coherent Detection Systems</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Tao Gui (/embedded/speaker/oecc_202107/16853890/?view=) (Speaker) 	
2:00 pm - 2:30 pm	<p>Dynamics of Multi-dimensional Femtosecond Fiber Laser (/embedded/session/oecc_202107/1682502/?view=)</p> <p>Fiber laser and amplification I</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Xiaoming Wei (/embedded/speaker/oecc_202107/15930560/?view=) (Speaker) Prof., South China University of Technology 	
2:00 pm - 2:30 pm	<p>Recent Progress in Photonic Crystal Surface-emitting Lasers (/embedded/session/oecc_202107/1682598/?view=)</p> <p>Semiconductor Lasers and Applications</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Susumu Noda (/embedded/speaker/oecc_202107/15930573/?view=) (Speaker) Kyoto University, Japan 	
2:00 pm - 2:30 pm	<p>High-speed Coherent Optical Signal Receiver Using Nanophotonics Devices (/embedded/session/oecc_202107/1682719/?view=)</p> <p>Optical Multiplexers</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Ting Lei (/embedded/speaker/oecc_202107/15930609/?view=) (Speaker) 	
2:00 pm - 2:30 pm	<p>Fundamentals and Advancements of DSP-based</p>	

	<div>  </div> Distributed Fiber Sensors (/embedded/session/oecc_202107/1682660/?view=)
	Signal Processing in Optical Sensing Room 6 <div>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Zhisheng Yang (/embedded/speaker/oecc_202107/15930621/?view=) (Speaker) BUPT </div>
2:30 pm - 3:00 pm	<div>  </div> Scalability of A-RoF Based Mobile Fronthaul Toward Beyond-5G (/embedded/session/oecc_202107/1682556/?view=)
	Optical Sub-system and applications Room 1 <div>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Kosuke Nishimura (/embedded/speaker/oecc_202107/15930554/?view=) (Speaker) Senior Expert, KDDI Research, Inc. </div>
2:30 pm - 2:45 pm	<div>  </div> 110GBaud PDM-64QAM Transmission Enabled by Tomlinson-Harashima Precoding and 120GSa/s DAC (/embedded/session/oecc_202107/1682798/?view=)
	Coherent Detection Systems Room 2 <div>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Guoxiu Huang (/embedded/speaker/oecc_202107/16023391/?view=) (Speaker) Fujitsu Ltd (Japan) </div>
2:30 pm - 2:45 pm	<div>  </div> High-efficiency Brillouin-Erbium Random Fiber Laser via Distributed Random Feedback from a Weak FBG Array (/embedded/session/oecc_202107/1682503/?view=)
	Fiber laser and amplification I Room 3 <div>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Jilin Zhang (/embedded/speaker/oecc_202107/16021539/?view=) (Speaker) Shanghai University </div>
2:30 pm - 2:45 pm	<div>  </div> Zn-Diffusion Few-mode VCSELs for 50-Gb/s GI-SMF Transmission over 100 m at 850 nm Wavelength (/embedded/session/oecc_202107/1682599/?view=)
	Semiconductor Lasers and Applications Room 4 <div>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Tsung-Chi Hsu (/embedded/speaker/oecc_202107/16023262/?view=) (Speaker) Student, National Yang Ming Chiao Tung University </div>
2:30 pm - 2:45 pm	<div>  </div> Monolithically Integrated Optoelectronic Multiplexer Circuit Using Light Emitting Transistors (/embedded/session/oecc_202107/1682720/?view=)
	Optical Multiplexers Room 5 <div>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Ying-Tzu Chen (/embedded/speaker/oecc_202107/16023333/?view=) (Speaker) </div>

2:30 pm - 2:45 pm

The influence of signal downsampling on the SNR of retrieved phase in the ϕ -OTDR system
(/embedded/session/oecc_202107/1682661/?view=)



Signal Processing in Optical Sensing

Room 6

Live Stream: Join stream

Recorded Video: Watch video

- Xian Zhou (/embedded/speaker/oecc_202107/16177743/?view=) (Speaker)

2:45 pm - 3:00 pm

Performance Analysis of Matched Filter-based Carrier Frequency Offset Estimation Methods for CO-OFDM
(/embedded/session/oecc_202107/1682799/?view=)



Coherent Detection Systems

Room 2

Live Stream: Join stream

Recorded Video: Watch video

- Xinwei Du (/embedded/speaker/oecc_202107/16023392/?view=) (Speaker) Assistant Professor, BNU-HKBU United International College

2:45 pm - 3:00 pm

Erbium-ytterbium Co-doped Phosphosilicate fiber for extended L-band Amplification
(/embedded/session/oecc_202107/1682504/?view=)



Fiber laser and amplification I

Room 3

Live Stream: Join stream

Recorded Video: Watch video

- Yang Chen (/embedded/speaker/oecc_202107/16021540/?view=) (Speaker) student, Huazhong University of Science and Technology

2:45 pm - 3:00 pm

Narrow Linewidth VCSEL based on Resonant Optical Feedback from an On-chip Microring Add-Drop Filter
(/embedded/session/oecc_202107/1682600/?view=)



Semiconductor Lasers and Applications

Room 4

Live Stream: Join stream

Recorded Video: Watch video

- Leilei Shi (/embedded/speaker/oecc_202107/16023263/?view=) (Speaker) Teacher, Chongqing University

2:45 pm - 3:00 pm

Ultracompact and broadband wavelength (de)multiplexer based on asymmetrical directional coupler with subwavelength grating
(/embedded/session/oecc_202107/1682721/?view=)



Optical Multiplexers

Room 5

Live Stream: Join stream

Recorded Video: Watch video

- Fuling Wang (/embedded/speaker/oecc_202107/16023334/?view=) (Speaker) Mrs., Shandong University

2:45 pm - 3:00 pm

Comparison of SVM method for picking up the microseismic events collected by fiber-optic and electronic monitoring system
(/embedded/session/oecc_202107/1682662/?view=)



Signal Processing in Optical Sensing

Room 6

Live Stream: Join stream

Recorded Video: Watch video

- Xian Zhou (/embedded/speaker/oecc_202107/16177743/?view=) (Speaker)

3:00 pm - 3:30 pm

Machine Learning for Optical Layer Failure Management

(/embedded/session/oecc_202107/1682557/?view=)

Optical Sub-system and applications

Room 1



Live Stream: Join stream



Recorded Video: Watch video

- **Danshi Wang** (/embedded/speaker/oecc_202107/15930544/?view=) (Speaker) Associate Professor, Beijing University of Posts and Telecommunications



3:00 pm - 3:15 pm

Delayed Self-Heterodyne Measurement for Laser Linewidth induced by White FM-noise PSD Portion

(/embedded/session/oecc_202107/1682800/?view=)

Coherent Detection Systems

Room 2



Live Stream: Join stream



Recorded Video: Watch video

- **Yuyuan Gao** (/embedded/speaker/oecc_202107/16023393/?view=) (Speaker) Ustb



3:00 pm - 3:15 pm

Design optimization of 12 Core Er³⁺/Yb³⁺ co-doped amplifier and its experimental validation

(/embedded/session/oecc_202107/1682505/?view=)

Fiber laser and amplification I

Room 3



Live Stream: Join stream



Recorded Video: Watch video

- **Aurelien Lebreton** (/embedded/speaker/oecc_202107/16021541/?view=) (Speaker) The Hong Kong Polytechnic University



3:00 pm - 3:15 pm

50 Gb/s PAM-4 VCSELs operating up to 125°C

(/embedded/session/oecc_202107/1682601/?view=)

Semiconductor Lasers and Applications

Room 4



Live Stream: Join stream



Recorded Video: Watch video

- **Takeshi Aoki** (/embedded/speaker/oecc_202107/16023264/?view=) (Speaker) Assistant Manager, Sumitomo Electric Industries, Ltd.



3:00 pm - 3:15 pm

Broadband Polarization Insensitive 1x8 WDM Multi-Cast Switch and Amplifier for Optical Networks

(/embedded/session/oecc_202107/1682722/?view=)

Optical Multiplexers

Room 5



Live Stream: Join stream



Recorded Video: Watch video

- **Aref Rasoulzadeh Zali** (/embedded/speaker/oecc_202107/16023335/?view=) (Speaker) Phd student, Technical university of Eindhoven



3:00 pm - 3:15 pm

Spatial Resolution Improvement of a Long Pulse BOTDA Sensor Using a Convolutional Neural Network

(/embedded/session/oecc_202107/1682663/?view=)

Signal Processing in Optical Sensing

Room 6








































Live Stream: Join stream






























Recorded Video: Watch video













	<p>Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Zhao Ge (/embedded/speaker/oecc_202107/16023301/?view=) (Speaker) Student, Huazhong University of Science and Technology 	
3:15 pm - 3:30 pm	<p>Real-time 80-Channel 75-GHz-Spacing Coherent Transmission over Extended C-Band for Long-haul Network beyond 100G (/embedded/session/oecc_202107/1682801/?view=)</p> <p>Coherent Detection Systems</p> <p>Room 2</p> <p>  Live Stream: Join stream  Recorded Video: Watch video </p> <ul style="list-style-type: none"> • Dong Wang (/embedded/speaker/oecc_202107/16023394/?view=) (Speaker) 	
3:15 pm - 3:30 pm	<p>All-polarization-maintaining Bidirectional Dual-comb Fiber Laser by Nonlinear Polarization Evolution (/embedded/session/oecc_202107/1682506/?view=)</p> <p>Fiber laser and amplification I</p> <p>Room 3</p> <p>  Live Stream: Join stream  Recorded Video: Watch video </p> <ul style="list-style-type: none"> • Xuanyi Liu (/embedded/speaker/oecc_202107/16021542/?view=) (Speaker) Tsinghua University 	
3:15 pm - 3:30 pm	<p>12-Gb/s Sub-THz Wireless-over-Fiber Links Using Optically Injected Semiconductor Lasers (/embedded/session/oecc_202107/1682602/?view=)</p> <p>Semiconductor Lasers and Applications</p> <p>Room 4</p> <p>  Live Stream: Join stream  Recorded Video: Watch video </p> <ul style="list-style-type: none"> • Chin-Hao Tseng (/embedded/speaker/oecc_202107/16023265/?view=) (Speaker) Doctoral Candidate, Department of Photonics, National Cheng Kung University 	
3:15 pm - 3:30 pm	<p>Resonant-enhanced optical switch based on non-volatile phase change material GST (/embedded/session/oecc_202107/1682723/?view=)</p> <p>Optical Multiplexers</p> <p>Room 5</p> <p>  Live Stream: Join stream  Recorded Video: Watch video </p> <ul style="list-style-type: none"> • Di Wu (/embedded/speaker/oecc_202107/16023336/?view=) (Speaker) Postgraduate Student, Shanghai Jiao Tong University 	
3:15 pm - 3:30 pm	<p>Ballistocardiography reconstruction based on optical fiber sensor using deep learning algorithm (/embedded/session/oecc_202107/1682664/?view=)</p> <p>Signal Processing in Optical Sensing</p> <p>Room 6</p> <p>  Live Stream: Join stream  Recorded Video: Watch video </p> <ul style="list-style-type: none"> • Shuyang CHEN (/embedded/speaker/oecc_202107/15992139/?view=) (Speaker) 	
4:00 pm - 4:15 pm	<p>Joint CD and DGD estimation enabled by FrFT based time-frequency reconstruction (/embedded/session/oecc_202107/1682802/?view=)</p> <p>Signal Processing for Distortion Compensation</p> <p>Room 2</p> <p>  Live Stream: Join stream </p>	

	<p>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Ting Jiang (/embedded/speaker/oecc_202107/16023395/?view=) (Speaker) Student, Huazhong University of Science and Technology </p>
4:00 pm - 4:30 pm	<p> Ultrafast Mid-IR Fiber Laser with Few-cycle Pulse Duration and Octave Spectral Spanning (/embedded/session/oecc_202107/1682507/?view=)  </p> <p>Fiber Laser and Amplification II</p> <p>Room 3</p> <p>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Meng Pang (/embedded/speaker/oecc_202107/15930565/?view=) (Speaker) Senior researcher, Shanghai Institute of Optics and Fine Mechanics </p>
4:00 pm - 5:00 pm	<p> Narrow Linewidth DFB Lasers for Quantum Applications (/embedded/session/oecc_202107/1682603/?view=)  </p> <p>Distributed Feedback Lasers and Applications</p> <p>Room 4</p> <p>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Marc Sorel (/embedded/speaker/oecc_202107/15930568/?view=) (Speaker) </p>
4:00 pm - 4:30 pm	<p> A Monolithically Integrated Switchable Silicon Microwave Photonic Filter (/embedded/session/oecc_202107/1682724/?view=)  </p> <p>Optical Frequency Combs and Lasers</p> <p>Room 5</p> <p>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Xingjun Wang (/embedded/speaker/oecc_202107/15930607/?view=) (Speaker) Professor, Peking University </p>
4:00 pm - 4:30 pm	<p> Optical Fiber Shape Sensing Technology (/embedded/session/oecc_202107/1682665/?view=)  </p> <p>Distributed fiber sensing-1</p> <p>Room 6</p> <p>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Guolu Yin (/embedded/speaker/oecc_202107/15930615/?view=) (Speaker) Professor, Chongqing University </p>
4:00 pm - 4:30 pm	<p> Early Detection of Blood Clots in COVID-19 by High-throughput Imaging and Artificial Intelligence (/embedded/session/oecc_202107/1682686/?view=)  </p> <p>Biophotonics, Microscopy, and Artificial Intelligence</p> <p>Room 1</p> <p>  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Keisuke Goda (/embedded/speaker/oecc_202107/15930629/?view=) (Speaker) Professor, University of Tokyo </p>
4:15 pm - 4:30 pm	<p> Rx DSP Algorithm for Transceiver IQ Imbalance Compensation in Coherent Optical OFDM System (/embedded/session/oecc_202107/1682803/?view=)  </p> <p>Signal Processing for Distortion Compensation</p> <p>Room 2</p> <p>  Live Stream: Join stream  Recorded Video: Watch video </p>

	<ul style="list-style-type: none"> • Fan Li (/embeddedd/speaker/oecc_202107/16177720/?view=) (Speaker)
4:30 pm - 4:45 pm	<p>A Stokes-space-rotation Based Randomly Fast RSOP Tracking Algorithm Using Extended Kalman Filter (/embeddedd/session/oecc_202107/1682804/?view=)</p> <p>Signal Processing for Distortion Compensation</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Weichen Hou (/embeddedd/speaker/oecc_202107/16023397/?view=) (Speaker) Beijing University of Posts and Telecommunications
4:30 pm - 4:45 pm	<p>Pulse-width electrically tunable mode-locked laser based on fiber integrated graphene field effect transistor (/embeddedd/session/oecc_202107/1682508/?view=)</p> <p>Fiber Laser and Amplification II</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Zixuan Ding (/embeddedd/speaker/oecc_202107/16021543/?view=) (Speaker) Ph.D candidate, Nanjing University
4:30 pm - 4:45 pm	<p>Third-harmonic-assisted four-wave mixing in microresonator-based Kerr frequency comb generation (/embeddedd/session/oecc_202107/1682725/?view=)</p> <p>Optical Frequency Combs and Lasers</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Hao Zhang (/embeddedd/speaker/oecc_202107/16023337/?view=) (Speaker) Nanjing University of Aeronautics and Astronautics
4:30 pm - 4:45 pm	<p>An Algorithm to Construct 3D Pipeline Bending Shape Based on Ultra-weak FBG Curvature Sensor (/embeddedd/session/oecc_202107/1682666/?view=)</p> <p>Distributed fiber sensing-1</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Zhong-jing Wu (/embeddedd/speaker/oecc_202107/16177744/?view=) (Speaker)
4:30 pm - 5:00 pm	<p>Artificial Intelligence in Biophotonics and Imaging: Advancing Computational Reconstruction and Inference (/embeddedd/session/oecc_202107/1682687/?view=)</p> <p>Biophotonics, Microscopy, and Artificial Intelligence</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Edmund Y. Lam (/embeddedd/speaker/oecc_202107/15930626/?view=) (Speaker) Professor, University of Hong Kong
4:45 pm - 5:00 pm	<p>Low Complexity and Robust Pilot-aided Frequency Kalman Filter Scheme for Extreme Polarization Effects Equalization (/embeddedd/session/oecc_202107/1682805/?view=)</p> <p>Signal Processing for Distortion Compensation</p>

	Room 2  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Nannan Zhang (/embedded/speaker/oecc_202107/16023398/?view=) (Speaker) student, Beijing University of Posts and Telecommunications 	
4:45 pm - 5:00 pm	Linear Polarization-maintaining Fiber Laser Mode-locked by Nonlinear Polarization Evolution (/embedded/session/oecc_202107/1682509/?view=) Fiber Laser and Amplification II	
	Room 3  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Denghui Pan (/embedded/speaker/oecc_202107/16021544/?view=) (Speaker) 	
4:45 pm - 5:00 pm	Optical Frequency Comb Generation in Normal Dispersion Microresonators with Coupled-ring Structure (/embedded/session/oecc_202107/1682726/?view=) Optical Frequency Combs and Lasers	
	Room 5  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Zihao Cheng (/embedded/speaker/oecc_202107/16177737/?view=) (Speaker) 	
4:45 pm - 5:00 pm	Hollow-Core Negative Curvature Fiber for Refractive Index Sensing Based on Surface Plasmon Resonance Effect (/embedded/session/oecc_202107/1682667/?view=) Distributed fiber sensing-1	
	Room 6  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Zhang Zhichao (/embedded/speaker/oecc_202107/16023303/?view=) (Speaker) 	
5:00 pm - 5:15 pm	A Sharp-Peak Model Describing the Fast RSOP Induced by the Lightning Strikes and Its Tracking Method (/embedded/session/oecc_202107/1682806/?view=) Signal Processing for Distortion Compensation	
	Room 2  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Wanxin Zhao (/embedded/speaker/oecc_202107/16177721/?view=) (Speaker) 	
5:00 pm - 5:15 pm	Research on the switch of Q-switched mode-locking and continuous-wave mode-locking in an erbium-doped fiber laser based on SESAM (/embedded/session/oecc_202107/1682510/?view=) Fiber Laser and Amplification II	
	Room 3  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Zheng Wu (/embedded/speaker/oecc_202107/16021545/?view=) (Speaker) 	

5:00 pm - 5:30 pm	<p>Recent progress in quantum dot distributed feedback lasers for uncooled and isolator free applications (/embedded/session/oecc_202107/1682604/?view=)</p> <p>Distributed Feedback Lasers and Applications</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Frederic Grillot (/embedded/speaker/oecc_202107/15930575/?view=) (Speaker) Professor , Telecom Paris
5:00 pm - 5:15 pm	<p>Ultra-thin curved microdisk lasers with high quality factor (/embedded/session/oecc_202107/1682727/?view=)</p> <p>Optical Frequency Combs and Lasers</p> <p>Room 5</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Zhaoyu Zhang (/embedded/speaker/oecc_202107/16177738/?view=) (Speaker)
5:00 pm - 5:30 pm	<p>Quasi-distributed Acoustic Sensing at Ultrahigh Update Rates (/embedded/session/oecc_202107/1682668/?view=)</p> <p>Distributed fiber sensing-1</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <ul style="list-style-type: none"> • Avishay Eyal (/embedded/speaker/oecc_202107/15930622/?view=) (Speaker) Prof., Tel Aviv University
5:00 pm - 5:30 pm	<p>Biophotonics 4.0 - Merging AI and Photonics for Better Healthcare (/embedded/session/oecc_202107/1682688/?view=)</p> <p>Biophotonics, Microscopy, and Artificial Intelligence</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Juergen Popp (/embedded/speaker/oecc_202107/15930630/?view=) (Speaker) Director, Leibniz-Institute of Photonic Technology Jena
5:15 pm - 5:30 pm	<p>Single-Channel 1.28 Tbit/s Optical Nyquist Pulse Transmission over 3000 km with Roll-off Factor Optimization (/embedded/session/oecc_202107/1682807/?view=)</p> <p>Signal Processing for Distortion Compensation</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Aoi Watanabe (/embedded/speaker/oecc_202107/15993966/?view=) (Speaker) Tohoku University
5:15 pm - 5:30 pm	<p>Quasi-coherent noise-like pulses in a simplified nonlinear polarization evolution mode-locked fiber laser (/embedded/session/oecc_202107/1682511/?view=)</p> <p>Fiber Laser and Amplification II</p> <p>Room 3</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Renlai Zhou (/embedded/speaker/oecc_202107/16021546/?view=) (Speaker) Harbin Engineering University
5:15 pm - 5:30 pm	<p>Effects of a Weak Continuous Wave Trigger on</p>

5:15 pm - 5:30 pm

**EFFECTS OF A WEAK CONTINUOUS WAVE TRIGGER ON
Picosecond Pulse Pumped Supercontinuum
Generation in Silicon Nitride Waveguide**
(/embedded/session/oecc_202107/1682728/?view=)



Optical Frequency Combs and Lasers

Room 5



Live Stream: Join stream



Recorded Video: Watch video

- Kaibin Lin (/embedded/speaker/oecc_202107/16023339/?view=)
(Speaker) research student, Peking University

5:30 pm - 5:45 pm

**Measurement of Transmitter IQ Skew in High-Speed
Digital Coherent Communication System**
(/embedded/session/oecc_202107/1682808/?view=)



Signal Processing for Distortion Compensation

Room 2



Live Stream: Join stream



Recorded Video: Watch video

- Naoki Tsuchida (/embedded/speaker/oecc_202107/16023400/?view=) (Speaker)

5:30 pm - 5:45 pm

**Rational Harmonic Mode-Locked Bismuth-Based
Fiber Ring Laser**
(/embedded/session/oecc_202107/1682512/?view=)



Fiber Laser and Amplification II

Room 3



Live Stream: Join stream



Recorded Video: Watch video

- Yutaka Fukuchi (/embedded/speaker/oecc_202107/16021547/?view=) (Speaker) Tokyo University of Science

5:30 pm - 5:45 pm

**High speed direct modulation of 1.3 μm grating
assisted surface-emitting DFB laser with wide
temperature operation**
(/embedded/session/oecc_202107/1682605/?view=)



Distributed Feedback Lasers and Applications

Room 4



Live Stream: Join stream



Recorded Video: Watch video

- Jing Luan (/embedded/speaker/oecc_202107/16023266/?view=) (Speaker) Dr., Huazhong University of Science and Technology

5:30 pm - 5:45 pm

**Enhanced Dispersive Wave in the Dispersion
Engineered Lithium Niobate Waveguides**
(/embedded/session/oecc_202107/1682729/?view=)



Optical Frequency Combs and Lasers

Room 5



Live Stream: Join stream



Recorded Video: Watch video

- Ye Feng (/embedded/speaker/oecc_202107/16023340/?view=) (Speaker) PKU

5:30 pm - 5:45 pm

**Locating Abnormal Event with Ultrafast Speed by
Using Edge Detection Method in BOTDA Sensing
System** (/embedded/session/oecc_202107/1682669/?view=)



Distributed fiber sensing-1

Room 6



Live Stream: Join stream



Recorded Video: Watch video

- Shang Liu (/embedded/speaker/oecc_202107/16038095/?view=) (Speaker) Student, Huazhong University of Science and Technology

5:30 pm - 6:00 pm

Computational Raman Microscopy
(/embedded/session/oecc_202107/1682689/?view=)



Biophotonics, Microscopy, and Artificial Intelligence

Room 1

- Live Stream: Join stream
 Recorded Video: Watch video
- **Hilton B. de Aguiar**
(/embedded/speaker/oecc_202107/16853902/?view=) (Speaker)

5:45 pm - 6:00 pm

Experimental demonstration of distortion mitigation in 15 Tbit/s OTDM transmission using a cognitive dynamic system
(/embedded/session/oecc_202107/1682809/?view=)



Signal Processing for Distortion Compensation

Room 2

- Live Stream: Join stream
 Recorded Video: Watch video
- **Mahdi Naghshvarianjahromi**
(/embedded/speaker/oecc_202107/16023401/?view=) (Speaker)

5:45 pm - 6:00 pm

Conversion of dark-bright solitons in a fiber ring laser
(/embedded/session/oecc_202107/1682513/?view=)



Fiber Laser and Amplification II

Room 3

- Live Stream: Join stream
 Recorded Video: Watch video
- **Shijie Chen** (/embedded/speaker/oecc_202107/16021548/?view=) (Speaker) Research Student, Peking University

5:45 pm - 6:00 pm

Tunable ultra-narrow linewidth fiber laser based on distributed feedback
(/embedded/session/oecc_202107/1682606/?view=)



Distributed Feedback Lasers and Applications

Room 4

- Live Stream: Join stream
 Recorded Video: Watch video
- **Laiyang Dang** (/embedded/speaker/oecc_202107/16023267/?view=) (Speaker) Student, Chongqing university

5:45 pm - 6:00 pm

Improving the frequency chirp linearity of a frequency-modulated continuous-wave laser
(/embedded/session/oecc_202107/1682730/?view=)



Optical Frequency Combs and Lasers

Room 5

- Live Stream: Join stream
 Recorded Video: Watch video
- **Chuxin Liu** (/embedded/speaker/oecc_202107/16023341/?view=) (Speaker) Shanghai Jiao Tong University

7:30 pm - 7:45 pm

Demonstration of 352-Gbit/s Single Line Rate PS-4096QAM THz Wired Transmission over Hollow-Core Fiber (/embedded/session/oecc_202107/1781037/?view=)



PDP

Room 7

- Live Stream: Join stream
 Recorded Video: Watch video
- **Jianjun Yu** (/embedded/speaker/oecc_202107/16142921/?view=) (Speaker) Fudan University, China

Authors: *jianjun@fudan.edu.cn

7:45 pm - 8:00 pm

Ultra-compact Single-shot Spectrometer Enabled by Stratified Waveguide Filters
(/embedded/session/oecc_202107/1781038/?view=)



PDP

Room 7



Live Stream: Join stream



Recorded Video: Watch video

- **Ang Li** (/embedded/speaker/oecc_202107/16853907/?view=)
(Speaker) Professor, Nanjing university of Aeronautics and Astronautics

Authors: ang.li@nuaa.edu.cn

8:00 pm - 8:15 pm

Aggregated 1.059 Tbit/s photonic-wireless transmission at 350 GHz over 10 meters
(/embedded/session/oecc_202107/1781039/?view=)



PDP

Room 7



Live Stream: Join stream



Recorded Video: Watch video

- **Hongqi Zhang** (/embedded/speaker/oecc_202107/16853908/?view=) (Speaker)

Authors: zhanglu1993@zju.edu.cn

8:15 pm - 8:30 pm

6.4Tb/s (16×400Gb/s) Nonlinear Frequency Division Multiplexing WDM Transmission over 640km SSMF
(/embedded/session/oecc_202107/1781040/?view=)



PDP

Room 7



Live Stream: Join stream



Recorded Video: Watch video

- **Xinyu Chen** (/embedded/speaker/oecc_202107/16853909/?view=) (Speaker)

Authors: fzhang@pku.edu.cn

8:30 pm - 8:45 pm

Real-time Single-Carrier 800Gb/s DP-64QAM Demonstration using Bi-Directional Self-homodyne Coherent Transceivers with 200krad/s Endless Active Polarization Controller
(/embedded/session/oecc_202107/1781041/?view=)



PDP

Room 7



Live Stream: Join stream



Recorded Video: Watch video

- **Tao Gui** (/embedded/speaker/oecc_202107/16853890/?view=) (Speaker)

Authors: liliangchuan@huawei.com

8:45 pm - 9:00 pm

Single-Lane 402 Gb/s PAM-8 IM/DD Transmission Based on a Single DAC and an O-Band Commercial EML (/embedded/session/oecc_202107/1781042/?view=)



PDP

Room 7















Live Stream: Join stream






Recorded Video: Watch video



















- **Md Sabbir-Bin Hossain** (/embedded/speaker/oecc_202107/16848854/?view=) (Speaker)
PhD Researcher, Huawei Technologies Duesseldorf GmbH

Authors: sabbir.hossain@huawei.com

9:00 pm - 9:15 pm	<p>High-speed silicon micro-ring modulator at 2-μm waveband (/embedded/session/oecc_202107/1781043/?view=)</p> <p>PDP</p> <p>Room 7</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Jiangbing Du (/embedded/speaker/oecc_202107/16853910/?view=) (Speaker) <p>Authors: dujiangbing@sjtu.edu.cn</p>	
9:15 pm - 9:30 pm	<p>Field Trial of Cable Safety Protection and Road Traffic Monitoring over Operational 5G Transport Network with Fiber Sensing and On-Premise AI Technologies (/embedded/session/oecc_202107/1781044/?view=)</p> <p>PDP</p> <p>Room 7</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Ming-Fang Huang (/embedded/speaker/oecc_202107/16853911/?view=) (Speaker) <p>Authors: mhuang@nec-labs.com</p>	
9:30 pm - 9:45 pm	<p>Over 60GHz InP CDM and ICR Enabling 800Gbps LR/ER/ZR/ZR+ Transmission Links With 120Gbaud/DP-16QAM Modulation (/embedded/session/oecc_202107/1781045/?view=)</p> <p>PDP</p> <p>Room 7</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • You-Wei Chen (/embedded/speaker/oecc_202107/16815824/?view=) (Speaker) Senior optical system engineer, Neophotonics <p>Authors: you-wei.chen20@neophotonics.com</p>	
9:45 pm - 10:00 pm	<p>Erbium-doped waveguide amplifier on lithium niobate on insulator with 27.94 dB total gain and 6.20 dB/cm net gain (/embedded/session/oecc_202107/1781046/?view=)</p> <p>PDP</p> <p>Room 7</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> • Kan Wu (/embedded/speaker/oecc_202107/16853899/?view=) (Speaker) Professor, Shanghai Jiao Tong University <p>Authors: kanwu@sjtu.edu.cn</p>	

Wednesday, July 7

8:29 am - 6:00 pm	<p>Online lab tour (/embedded/session/oecc_202107/1793202/?view=)</p> <p>Room 7</p> <p> Live Stream: Join stream</p>	
8:30 am - 9:00 am	<p>Free-Space Optical Communication Systems for B5G/6G Networks (/embedded/session/oecc_202107/1682558/?view=)</p> <p>Next generation optical networks</p>	

	Room 1  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Abdelmoula Bekkali (/embedded/speaker/oecc_202107/15930536/?view=) (Speaker) Senior Manager, TOYO Electric Corporation 	
8:30 am - 9:00 am	Shaping and Bit Labeling in High Dimensions to Improve Overall System Performance (/embedded/session/oecc_202107/1682810/?view=) Constellation Shaping Technologies II	
	Room 2  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Rene-Jean Essiambre (/embedded/speaker/oecc_202107/15930549/?view=) (Speaker) Researcher, Nokia 	
8:30 am - 9:00 am	Optical Fiber Sensing Technology and its Applications (/embedded/session/oecc_202107/1682514/?view=) Optical Fiber Sensing Device	
	Room 4  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Wen Zhang (/embedded/speaker/oecc_202107/15930561/?view=) (Speaker) Associate Professor, Beijing Information Science and Technology University 	
8:30 am - 9:00 am	Wavemeter with Ultra-high Resolution and Broad Bandwidth by using Rayleigh Speckle from Single Mode Fiber (/embedded/session/oecc_202107/1682630/?view=) Optical devices and signal processing II	
	Room 5  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Xinyu Fan (/embedded/speaker/oecc_202107/15930587/?view=) (Speaker) 	
8:30 am - 9:00 am	Mode-multiplexed full-field reconstruction using direct and phase retrieval detection (/embedded/session/oecc_202107/1696824/?view=) SDM Sub-System	
	Room 6  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Haoshuo Chen (/embedded/speaker/oecc_202107/16177732/?view=) (Speaker) 	
8:30 am - 9:00 am	Brillouin Integrated Photonics for Broadband RF Sensing and Processing (/embedded/session/oecc_202107/1682731/?view=) RF and 2D Materials Photonics	
	Room 3  Live Stream: Join stream  Recorded Video: Watch video <ul style="list-style-type: none"> • Benjamin Eggleton (/embedded/speaker/oecc_202107/15930603/?view=) (Speaker) Prof, University of Sydney 	
9:00 am - 9:15 am	Experiment of Segment Routing based Service-Oriented Fast Path Construction for F5G	

(/embedded/session/oecc_202107/1682559/?view=)

Next generation optical networks

Room 1



Live Stream: Join stream



Recorded Video: Watch video

- Xin Li (/embedded/speaker/oecc_202107/15995794/?view=) (Speaker) Beijing University of Posts and Telecommunications

9:00 am - 9:15 am

Capacity Increase in Dual-polarization Nonlinear Frequency Division Multiplexing Systems with Probabilistic Shaping
(/embedded/session/oecc_202107/1682811/?view=)



Constellation Shaping Technologies II

Room 2



Live Stream: Join stream



Recorded Video: Watch video

- Chenjia Li (/embedded/speaker/oecc_202107/16022676/?view=) (Speaker)

9:00 am - 9:15 am

An in-fiber Mach-Zehnder interferometer for salinity sensor based on interface-fiber inscribed by femtosecond laser
(/embedded/session/oecc_202107/1682515/?view=)



Optical Fiber Sensing Device

Room 4



Live Stream: Join stream



Recorded Video: Watch video

- Shengqi Zhang (/embedded/speaker/oecc_202107/16021549/?view=) (Speaker) students, Sun Yat-Sen University

9:00 am - 9:30 am

Highly sensitive and compact fiber optic ultrasound sensors for tomography imaging
(/embedded/session/oecc_202107/1682631/?view=)



Optical devices and signal processing II

Room 5



Live Stream: Join stream



Recorded Video: Watch video

- Qizhen Sun (/embedded/speaker/oecc_202107/15930583/?view=) (Speaker)

9:00 am - 9:30 am

Wideband and High Throughput Optical Transmission with Multi-core Fibers and Amplifiers
(/embedded/session/oecc_202107/1696825/?view=)



SDM Sub-System

Room 6



Live Stream: Join stream



Recorded Video: Watch video

- Ben Puttnam (/embedded/speaker/oecc_202107/15930598/?view=) (Speaker)

9:00 am - 9:15 am

Photothermally tunable diffraction grating based on ultra-thin reduced graphene oxide enabled by femtosecond laser
(/embedded/session/oecc_202107/1682732/?view=)



RF and 2D Materials Photonics

Room 3



Live Stream: Join stream



Recorded Video: Watch video

- Shiru Jiang (/embedded/speaker/oecc_202107/16023342/?view=) (Speaker) Kwangwoon University

9:15 am - 9:30 am

Spectrum Trading Based on Blockchain for Resource Allocation of Optical Network Virtualization
(/embedded/session/oecc_202107/1682560/?view=)



Next generation optical networks

Room 1



Live Stream: Join stream



Recorded Video: Watch video

- Jinghan Zhao (/embedded/speaker/oecc_202107/16023234/?view=) (Speaker)

9:15 am - 9:30 am

Optimized M-APSK Constellation Design based on Error Rate Formulation in Laser Phase Noise
(/embedded/session/oecc_202107/1682812/?view=)



Constellation Shaping Technologies II

Room 2



Live Stream: Join stream



Recorded Video: Watch video

- Qian Wang (/embedded/speaker/oecc_202107/15993987/?view=) (Speaker) Research Associate, Shenzhen University

9:15 am - 9:30 am

Single-Polarization Hollow-Core Negative Curvature Fiber for Temperature Sensing
(/embedded/session/oecc_202107/1682516/?view=)



Optical Fiber Sensing Device

Room 4



Live Stream: Join stream



Recorded Video: Watch video

- Shi Qiu (/embedded/speaker/oecc_202107/16021550/?view=) (Speaker) Beijing University of Posts and Telecommunications

9:15 am - 9:30 am

Graphene-Buried Polymer Waveguide Mach-Zehnder Interferometer for Low-Power All-Optical Switching
(/embedded/session/oecc_202107/1682733/?view=)



RF and 2D Materials Photonics

Room 3



Live Stream: Join stream



Recorded Video: Watch video

- Lianzhou Jiang (/embedded/speaker/oecc_202107/16853900/?view=) (Speaker)

9:30 am - 9:45 am

Numerical Assessment of End-of-Life Impact of Optical Filtering by WSS-based OXCs in WDM Fiber Networks
(/embedded/session/oecc_202107/1682561/?view=)



Next generation optical networks

Room 1



Live Stream: Join stream



Recorded Video: Watch video

- Thierry Zami (/embedded/speaker/oecc_202107/15993975/?view=) (Speaker) Nokia (France)

9:30 am - 9:45 am

Probabilistically Shaped OFDM for Gradual Capacity Adaptation in 5G ARoF Systems
(/embedded/session/oecc_202107/1682813/?view=)



Constellation Shaping Technologies II

Room 2



Live Stream: Join stream



Recorded Video: Watch video

- Javier Pe´rez Santacruz (/embedded/speaker/oecc_202107/16853891/?view=) (Speaker)

9:30 am - 9:45 am

Novel optical fiber tactile sensor in laparoscope for force feedback
(/embedded/session/oecc_202107/1682517/?view=)



Optical Fiber Sensing Device

Room 4

Live Stream: Join stream

Recorded Video: Watch video

- Pingping Wang (/embedded/speaker/oecc_202107/16021551/?view=) (Speaker) Student, Southern Medical University

9:30 am - 9:45 am

Subwavelength grating for free-space coupling with high collimation and low divergence angle
(/embedded/session/oecc_202107/1682632/?view=)



Optical devices and signal processing II

Room 5

Live Stream: Join stream

Recorded Video: Watch video

- Ji Zhou (/embedded/speaker/oecc_202107/16023281/?view=) (Speaker) student, Huazhong University of Science and Technology

9:30 am - 9:45 am

Mode dispersion measurement of few-mode fiber utilizing s^2 technique
(/embedded/session/oecc_202107/1696826/?view=)



SDM Sub-System

Room 6

Live Stream: Join stream

Recorded Video: Watch video

- Jianxun Yu (/embedded/speaker/oecc_202107/15992611/?view=) (Speaker) The Hong Kong Polytechnic University

9:30 am - 9:45 am

Enhanced All-optical Modulation in MoS_2 -coated Side-polished Fibres
(/embedded/session/oecc_202107/1682734/?view=)



RF and 2D Materials Photonics

Room 3

Live Stream: Join stream

Recorded Video: Watch video

- Haojie Zhang (/embedded/speaker/oecc_202107/16177739/?view=) (Speaker)

9:45 am - 10:00 am

Evaluation platform with virtualized network emulation for traffic control methods in optical access and 5G co-operation systems
(/embedded/session/oecc_202107/1682562/?view=)



Next generation optical networks

Room 1

Live Stream: Join stream

Recorded Video: Watch video

- Kohei Sasagawa (/embedded/speaker/oecc_202107/16023236/?view=) (Speaker)

9:45 am - 10:00 am

Impact of Arbitrary Parameters in Parallel Eigenvalue Solving Algorithm on Optical Eigenvalue Communication
(/embedded/session/oecc_202107/1682814/?view=)



Constellation Shaping Technologies II

Room 2

Live Stream: Join stream

Recorded Video: Watch video

- Yuhei Terashi (/embedded/speaker/oecc_202107/16023404/?view=) (Speaker)

9:45 am - 10:00 am

Subwavelength Optofluidic Microstructured Optical Fibers (/embedded/session/oecc_202107/1682518/?view=)



Optical Fiber Sensing Device

Room 4



Live Stream: Join stream



Recorded Video: Watch video

- Ruowei Yu (/embedded/speaker/oecc_202107/16021552/?view=) (Speaker) Fudan University

9:45 am - 10:00 am

High Efficiency Double Layer Grating Couplers Supporting Polarization Diversity for Photonic Switches



(/embedded/session/oecc_202107/1682633/?view=)

Optical devices and signal processing II

Room 5



Live Stream: Join stream



Recorded Video: Watch video

- Mizuki Shirao (/embedded/speaker/oecc_202107/16177727/?view=) (Speaker)

9:45 am - 10:00 am

All-fiber symmetrical mode multiplexing coupler for multiplexing LP11 and LP21 modes



(/embedded/session/oecc_202107/1696827/?view=)

SDM Sub-System

Room 6



Live Stream: Join stream



Recorded Video: Watch video

- Wenzhe Chang (/embedded/speaker/oecc_202107/16177733/?view=) (Speaker)

9:45 am - 10:00 am

Surface plasmon polariton-enhanced photoluminescence of monolayer MoS₂ on a plasmonic grating architecture



(/embedded/session/oecc_202107/1682735/?view=)

RF and 2D Materials Photonics

Room 3



Live Stream: Join stream



- Lei Huang (/embedded/speaker/oecc_202107/16023345/?view=) (Speaker) Southeast University

10:30 am - 11:00 am

Power Efficiency Measurements in Amplifier Physics-optimized Power-limited SDM Submarine Transmission Systems



(/embedded/session/oecc_202107/1682563/?view=)

Transmission sub-system

Room 1



Live Stream: Join stream



Recorded Video: Watch video

- Joseph Kahn (/embedded/speaker/oecc_202107/15930537/?view=) (Speaker) Professor of Electrical Engineering, Stanford University

10:30 am - 11:00 am

Coherent PON: System Merit and Technical Challenges



(/embedded/session/oecc_202107/1682815/?view=)

Access and Multiplexing Technologies

Room 2



Live Stream: Join stream

 Recorded Video: Watch video

- Noriaki Kaneda (/embedded/speaker/oecc_202107/15930551/?view=) (Speaker) Nokia Bell labs (USA)


10:30 am - 11:00 am

Mie-driven free-space electro-optic transducers
(/embedded/session/oecc_202107/1682607/?view=)



Novel Optoelectronic Devices and Technologies

Room 6

 Live Stream: Join stream

- Cristina Benea-Chelmus
(/embedded/speaker/oecc_202107/16177724/?view=) (Speaker)
Postdoctoral fellow, Harvard University

10:30 am - 11:30 am

Optical Transformation Devices for Mode
Multiplexing and Manipulation
(/embedded/session/oecc_202107/1682736/?view=)



Photonics Waveguides

Room 3

 Recorded Video: Watch video

- Siyuan Yu (/embedded/speaker/oecc_202107/16023346/?view=)
(Speaker) Professor, Sun Yet-sen University


10:30 am - 11:00 am


Detection and Compensation of Laser Frequency
Noise for High Resolution Optical Sensing
(/embedded/session/oecc_202107/1682670/?view=)



High performance optical sensing technology

Room 4

 Live Stream: Join stream

 Recorded Video: Watch video

- Xiaoyi Bao (/embedded/speaker/oecc_202107/15930616/?view=)
(Speaker) Professor, UNIVERSITY OF OTTAWA


10:30 am - 11:30 am


Stimulated Raman Scattering (SRS) Imaging: the Next
Frontier of Light Microscopy
(/embedded/session/oecc_202107/1682690/?view=)



Imaging

Room 5

 Live Stream: Join stream

 Recorded Video: Watch video

- Wei Min (/embedded/speaker/oecc_202107/15930625/?view=)
(Speaker) Professor of Chemistry, Columbia University


11:00 am - 11:30 am


Optical Transmission Network Industrial Trend
(/embedded/session/oecc_202107/1682564/?view=)



Transmission sub-system

Room 1

 Live Stream: Join stream

 Recorded Video: Watch video

- Junjie Li (/embedded/speaker/oecc_202107/15930541/?view=)
(Speaker) China Telecom (China)


11:00 am - 11:15 am


Experimental ARoF System Based on OPLL Mm-Wave
Generation for Beyond 5G
(/embedded/session/oecc_202107/1682816/?view=)


















Access and Multiplexing Technologies

Room 2

 Live Stream: Join stream

 Recorded Video: Watch video

- Javier Pe´rez Santacruz
(/embedded/speaker/oecc_202107/16853891/?view=) (Speaker)

11:00 am - 11:30 am	<p>Moire Excitons and Polaritons in van der Waals Bilayers (/embedded/session/oecc_202107/1682608/?view=)</p> <p>Novel Optoelectronic Devices and Technologies</p> <p>Room 6</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Hui Deng (/embedded/speaker/oecc_202107/15930580/?view=) (Speaker) 	
11:00 am - 11:15 am	<p>Research on Temperature Variation of Overhead Transmission Line under Lightning Strike Based on Optical Frequency Domain Reflectometer (/embedded/session/oecc_202107/1682671/?view=)</p> <p>High performance optical sensing technology</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Zhehao Yan (/embedded/speaker/oecc_202107/16023305/?view=) (Speaker) student, Beijing University of Post and Telecommunications 	
11:15 am - 11:30 am	<p>High Capacity Real-Time Hybrid Optical-Wireless 5G Fronthaul with Dynamic Beam Steering (/embedded/session/oecc_202107/1682817/?view=)</p> <p>Access and Multiplexing Technologies</p> <p>Room 2</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Dimitrios Konstantinou (/embedded/speaker/oecc_202107/16023405/?view=) (Speaker) PhD Student, Eindhoven University of Technology (TU/e) 	
11:15 am - 11:30 am	<p>Doppler Laser Radar for Range and Speed Measurement of Road Objects with a Single Photon-detector (/embedded/session/oecc_202107/1682672/?view=)</p> <p>High performance optical sensing technology</p> <p>Room 4</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Yaqi Zhou (/embedded/speaker/oecc_202107/15993960/?view=) (Speaker) 	
11:30 am - 11:45 am	<p>Accurate Performance Estimation for Nonlinear System (/embedded/session/oecc_202107/1682565/?view=)</p> <p>Transmission sub-system</p> <p>Room 1</p> <p> Live Stream: Join stream</p> <p> Recorded Video: Watch video</p> <ul style="list-style-type: none"> Xiaofei Su (/embedded/speaker/oecc_202107/16177712/?view=) (Speaker) Fujitsu R&D Centor 	
11:30 am - 11:45 am	<p>Wide Field-of-View Color-Converting Concentrator for High- Speed MIMO UV-to-Visible Light Communication (/embedded/session/oecc_202107/1682818/?view=)</p> <p>Access and Multiplexing Technologies</p> <p>Room 2</p> <p> Live Stream: Join stream</p>	

Recorded Video: Watch video

- Zhaoming Wang (/embedded/speaker/oecc_202107/16023406/?view=) (Speaker)

11:30 am - 11:45 am

Demonstration of Photon-Photon Resonance Improved Direct Modulation Bandwidth of Partially Corrugated Grating with Passive Feedback
(/embedded/session/oecc_202107/1682609/?view=)



Novel Optoelectronic Devices and Technologies

Room 6

Live Stream: Join stream

Recorded Video: Watch video

- Siti Sulikhah (/embedded/speaker/oecc_202107/16023269/?view=) (Speaker) PhD Candidate, National Taiwan University of Science and Technology

11:30 am - 11:45 am

Compact Edge-Coupler for Broadband and High-Efficient Fiber-to-Waveguide Coupling Using Cascaded Silicon Nitride Tapers
(/embedded/session/oecc_202107/1682737/?view=)



Photonics Waveguides

Room 3

Live Stream: Join stream

Recorded Video: Watch video

- Bishal Bhandari (/embedded/speaker/oecc_202107/16023347/?view=) (Speaker) PhD candidate, Kwangwoon University

11:30 am - 12:00 pm

Recent Progress in Brillouin Optical Correlation Comain Technologies as Fiber Optic Nerve systems for Structural Health Monitoring
(/embedded/session/oecc_202107/1682673/?view=)



High performance optical sensing technology

Room 4

Live Stream: Join stream

Recorded Video: Watch video

- Kazuo Hotate (/embedded/speaker/oecc_202107/15930624/?view=) (Speaker) President, Toyota Technological Institute

11:30 am - 12:00 pm

Two-photon Fiberscope Technologies for Neural Imaging in Freely-behaving Rodents
(/embedded/session/oecc_202107/1682691/?view=)



Imaging

Room 5

Live Stream: Join stream

- Xingde Li (/embedded/speaker/oecc_202107/15930628/?view=) (Speaker) Professor, Johns Hopkins University

11:45 am - 12:00 pm

Joint Modulation Format Identification and OSNR Estimation Using Complex-valued Neural Networks
(/embedded/session/oecc_202107/1682566/?view=)



Transmission sub-system

Room 1

Live Stream: Join stream

Recorded Video: Watch video

- Fengchu Cao (/embedded/speaker/oecc_202107/16023237/?view=) (Speaker) Soochow University

11:45 am - 12:00 pm

Multiple Access Points Oriented Stable Radio Frequency Transfer Using a Wavelength-Tunable Laser
(/embedded/session/oecc_202107/1682819/?view=)





July 3-7, 2021

Programme

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