

## Minutes for the Optical Networking Technical Committee (ONTC) Meeting

### ICC 2021

Date: Wednesday, July 14, 2021

Time: 1-3 pm CEST

Place: Virtual Meeting



### 1. Welcome and Introductions

Luca welcomed and thanked remote participants for attending ONTC meeting(s).

Luca briefly introduced agenda for the day.

Round table introductions.

### 2. Approval of the minutes from ONTC meeting from GLOBECOM 2020

Moved: Zuqing Zhu

Seconded: Imran Ansari

Minutes approved after votes.

### 3. Frontiers in Research Presentation

**Title:** DCI Cloud Transport Network Innovations: An industry perspective.

**Presenter:** Loukas Paraschis (Infinera)

**Abstract:** This presentation reviews how the global cloud infrastructure has motivated the most significant evolution in wireline transport networks the last 15-20 years, and is currently motivating additional innovations, notably to the edge, and cloud “native” analytics to help cloud transport networks continue to scale.

NB: Loukas’ slides can be found on the ONTC webpage under “Meetings → ICC 2021”

### 4. ONTC Awards Subcommittee

Luca motivated the need for ONTC to establish this committee as per new IEEE ComSoc P&P and discuss the following nominations. Luca will confirm the timing of the two-year term (now tentatively July 2021-June 2023)

#### Volunteers

- **Chair: Elaine Wong, University of Melbourne**
- **Members:**
  - Admela Jukan, Technische Universität Braunschweig
  - Biswanath Mukherjee, UC Davis/Soochow University, PR China
  - Piet Demeester, Ghent University (UGent)
  - Ken-ichi Sato, Nagoya University
  - George Rouskas, NCSU

All nominations were accepted and unanimously approved by ONTC active members in the meeting.

#### IEEE ComSoc Policies and Procedures

Luca briefly reminded of the changes to ComSoc P&Ps and ONTC needs to align to these changes hence the need for the ONTC Awards Subcommittee .

- <https://www.comsoc.org/about/board-governors/governance/policies-procedures>
  - B.5.6 Technical Committees Board
- B.5.6.4.4 Minimum Mandatory/Recommended Policies for Technical Committees’ P&Ps  
<https://ontc.committees.comsoc.org/policies/>
- ONTC Active members are members that attended 3 out of the previous 5 meetings.

## 5. ICC and GLOBECOM conference updates

Luca briefed on the slight upturn of papers for GLOBECOM 2021. Thanked community for helping increase the reach of the CfP from Rudra Dutta.

### ICC 2021, 11-15 June, Montreal, Canada

- ONS Chairs:
  - Chadi Assi (Concordia University, Canada)
  - Elaine Wong (University of Melbourne, Australia)
  - Submissions
    - 52 submitted papers: 20 networks, 30 systems
    - 21 papers accepted
    - Best paper award - “Survivable Distributed Fiber Optic Sensors Placement against Single Link Failure”, by Zilong Ye, Philip N. Ji, and Ting Wang

### GLOBECOM 2021, Dec 7-11, Madrid, Spain

- ONS Chairs:
  - Mauro Biagi (Università La Sapienza, Roma)
  - Rudra Dutta (NCSU, USA) → Luca commented that he stepped down and is now replaced by Jaafar Elmirghani (University of Leeds, UK)
  - Submissions
    - 61 Papers: ? networks, ? systems
  - Finalizing review process

## 6. Voting to rename ONTC Service Award

- Luca proposed that the ONTC “active” members vote for the renaming of ONTC Service Award to ONTC Malathi Veeraraghavan Service Award. This award will be presented in December of 2021. The name change was unanimously approved by the ONTC active members in the meeting.

## 7. Other Conference updates

- OFC 2022, March 6-10, San Diego, CA, USA
- ICC 2022, May 16-20, Seoul, Korea
  - Marco Ruffini, Trinity College Dublin
  - Steve Hranilovic, McMaster university
- Globecom 2022, December 4-8, Rio De Janeiro, Brasil (Nominations sent)
  - Suresh Subramanian, The George Washington University, Washington D.C.
  - Anas Chaaban, UBC, Canada
- OFC 2023, March 5-9, 2023, San Diego, CA, USA
- ICC 2023, May 28-June 1, Rome, Italy
  - Nominations sent
- Globecom 2023, December 4-8, Kuala Lumpur, Malaysia
- OFC 2023, March 24-28, San Diego, CA, USA
- ICC 2023, 28 May - 1 June 2023, Rome, Italy
- ICC 2024, 9 - 13 June 2024, Denver, Colorado, USA
- ICC 2025, 8 - 14 June 2025, Montreal, QC, Canada
- ONTC co-sponsored conferences
  - The 30th International Conference on Computer Communications and Networks (ICCCN 2021) (July 19 - 22, 2021, Athens, Greece)
    - Submission Deadline: February 19, 2021
    - <http://www.icccn.org/icccn21/index.html>

- George Rouskas commented on lower acceptance rate than ICC and Globecom (28%), 8 tracks but many topics
- Photonic Networks and Devices (NETWORKS) 2021. (as part of OSA Advanced Photonics Congress)
  - 26 July 2021 – 30 July 2021 (fully virtual)
  - [https://www.osa.org/en-us/meetings/osa\\_meetings/advanced\\_photonics\\_congress/program/photonic\\_networks\\_and\\_devices/](https://www.osa.org/en-us/meetings/osa_meetings/advanced_photonics_congress/program/photonic_networks_and_devices/)
- ONDM 2021 May 16-18, 2022, Warsaw, Poland

## 8. Journal updates and reports

- IEEE Communications Magazine Feature Topis “Next Generation Optical Interconnects for Data Centers”
  - Submission deadline: July 15, 2021
  - Publication date: February 2022
- IEEE Communications Magazine has a Series on “Optical Communications and Networks”
  - Paper can be submitted anytime during a year, and if accepted, it will be published in the first time slot available for the Series (three issues a year normally)
  - <https://www.comsoc.org/publications/magazines/ieee-communications-magazine/cfp/optical-communications-and-networks>
 IEEE Communications Magazine Series Editor Call – please email Zuqing Zhu ([zqzhu@ieee.org](mailto:zqzhu@ieee.org))
- IEEE Networking Letters continuous submission
  - <https://www.comsoc.org/publications/journals/ieee-lnet>
- JOCN
  - 2021 Kao Award for Best Optical Networking paper – Cyriel Minkenberg, Nathan Farrington, Aaron Zilkie, David Nelson, Caroline P. Lai, Dan Brunina, Jerry Byrd, Bhaskar Chowdhuri, Nick Kucharewski, Karl Muth, Amit Nagra, German Rodriguez, David Rubi, Thomas Schrans, Pradeep Srinivasan, Yeong Wang, Chiang Yeh, and Andrew Rickman, “Reimagining datacenter topologies with integrated silicon photonics“ JOCN, July 2018
  - 2021 JOCN Reviewer of the Year: Xiaoliang Chen, UC Davis/Sun Yat-sen University
- JLT updates
  - **JLT Special Issues**
    - ECOC 2021 (will be published in the Aug. 15 issue)
    - Optical Systems and Technologies for 6G Mobile Networks (submission closed May 31, 2021 – planned to be published in December)
    - OFC 2021 – Tutorial, Invited, Top-Scores and Post-Deadline Papers (submission open, deadline Jul. 31, 2021)
    - Multi-Band Optical Networks (submission open, deadline Sep. 30, 2021)
  - **Journal of Lightwave Technology’s 2018 Paper Award’s winners (announced during the OFC plenary)**
    - **End-to-End Deep Learning of Optical Fiber Communications** by Boris Karanov, Mathieu Chagnon, Felix Thouin, Tobias A. Eriksson, Henning Bulow, Domanic Lavery, Polina Bayvel, and Laurent Schmalen (Journal of Lightwave Technology, Volume: 36, Issue: 20, Oct.15, 15 2018, Page(s): 4843 – 4855)
    - **Kramers–Kronig Receivers for 100-km Datacenter Interconnects** by Xi Chen, Cristian Antonelli, Sethumadhavan Chandrasekhar, Gregory Raybon, Antonio Mecozzi, Mark

Shtaif and Peter Winzer (Journal of Lightwave Technology, Volume: 36, Issue: 1, Jan.1, 1 2018, Page(s): 79 – 89)

- **Latest Impact Factor:** 4.142
  - **Number of submissions trend:** Still increasing, despite the pandemic situation
    - o 1<sup>st</sup>semester 2020: 861
    - o 2<sup>nd</sup>semester 2020: 927
    - o 1<sup>st</sup>semester 2021: 1059
- Communications Magazine Optical Communications and Networks Series (OCNS) Editor opening
    - o Zuqing Zhu mentioned two expected openings among the series editor. Interested applicants, please, contact directly Communications Magazine EiC

## 9. Book Updates

- Availability of the "Optical Networks Handbook"
  - [https://www.linkedin.com/posts/dr-ioannis-tomkos-086b102\\_springer-handbook-of-optical-networks-activity-6722742319226871808-QcPn](https://www.linkedin.com/posts/dr-ioannis-tomkos-086b102_springer-handbook-of-optical-networks-activity-6722742319226871808-QcPn)
- Invitation for proposals to interested Book Editors or/and Book Authors for Books related to the general areas of Optical Communication Systems & Networks (as part of the Book Series that Biswanath Mukherjee and Ioannis Tomkos) are handling
  - [https://www.linkedin.com/posts/dr-ioannis-tomkos-086b102\\_optical-networks-activity-6725384313287778305-hYha](https://www.linkedin.com/posts/dr-ioannis-tomkos-086b102_optical-networks-activity-6725384313287778305-hYha)

## 10. Other business and adjournment

Luca thanked all attendees and adjourned meeting.

### Attendees:

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