



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

### ICC 2020

Date: Wednesday, July 15, 2020

Time: 8:30 – 10:00 EDT

Place: Virtual Meeting

### 1. Welcome and Introductions

Luca welcomed and thanked remote and onsite participants for attending ONTC meeting. Luca welcomed IEEE ComSoc President Vincent Chan and IEEE ComSoc TC Board Chair Stefano Galli. Luca offered his thoughts and support for all nations currently battling Covid-19. Luca thanked the physicians and front-line workers on their work on Covid-19 on behalf of ONTC. Luca briefly introduced agenda.

### 2. Approval of the minutes from ONTC meeting at OFC 2020.

Moved: Zuqing Zhu

Seconded: Paolo Monti

Minutes approved after vote.

### 3. Representation from ONTC within the Conferences Council or the Boards and Standing Committees

George Rouskas and Jaafar Elmirghani from TAOS noted that there is a lack of representation of the optical network community in the following bodies

- Conferences Council (<https://www.comsoc.org/about/councils/conferences-council>)
- Conference Development Board (<https://www.comsoc.org/about/boards/conference-development-board>)
- Conference Operations Board (<https://www.comsoc.org/about/boards/conference-operations-board>)
- GITC (<https://www.comsoc.org/about/committees/standing-committees/globecomicc-technical-content-gitc>)
- GIMS (<https://www.comsoc.org/about/committees/standing-committees/globecomicc-management-strategy-gims>)

Vincent Chan commented that George (on behalf of ONTC) and Jaafar (on behalf of TAOS) wrote to the Conference Council VP. Vincent commented that George (and Jaafar) should convey and comment on response received directly to ONTC. Vincent suggested looking into the records on whether we can confirm that in no time in the past ONTC suggestions for TPC chair was rejected. Luca will follow up with George and will look through past records of ONTC recommendations on the council/boards/standing committees if necessary.

#### **4. Naming ONTC Service Award in honour of Prof. Melathi Veeraraghavan.**

Luca sent his condolences to Prof. Melathi Veeraraghavan's family on behalf of ONTC. The Com Soc community at large is mourning her loss. She was a highly valued member of our community. Luca proposed to recognise her contributions to our community by naming the ONTC Service Award in honour of her. Luca suggested that the award be named after numerous persons in the future but would like to begin with Prof. Melathi. Luca mentioned an "In Memoriums" page in which Vincent has confirmed Prof. Melathi's memorium is now posted on the IEEE Com Soc website. Stefano will confirm with Luca with regards to email voting to officially name the ONTC Service Award in honour of Prof. Melathi Veeraraghavan.

#### **5. Frontiers in research and other possible plan of action**

Vincent previously proposed to cast a spotlight on possible frontier topics related to the ONTC community to generate discussion and possible new research areas and collaboration across different TCs. Luca proposed to re-establish short presentations to be presented either in person or online during each ONTC meeting. Some of the proposed topics include AI in optics, optics for 5G, Optics in satellite (note: IEEE ComSoc Technical Committee Meeting on Satellite and Space Communications (SSC) was recently approved), optics in autonomous driving, and VLC. Reza suggested to include quantum computing to the list. Jane mentioned that the long-range committee of OFC has a frontier research list that could be shared with ONTC. Vincent mentioned a few possible names to approach for future presentations in these frontier research areas. Moving forward, Luca outlined his plan to collect short talk proposals one month before the next ONTC meeting and setting up an ONTC working group to evaluate proposals and presentation of two short presentations (15 minutes each) in the next ONTC meeting. Reza Nejabati, Zuqing Zhu and Marco Ruffini have volunteered to serve on the working group to organise talks/presentations for future meetings.

#### **6. Conference and Journal updates and reports.**

Luca Valcarengi reported the following Globecom and ICC paper submission and acceptance statistics:

##### **ICC 2020 7-11 June, Dublin**

- ONS Chairs:
  - Zuqing Zhu, University of Science and Technology of China (USTC), China
  - Roberto Rojas-Cessa, New Jersey Institute of Technology
  - Submissions
    - 53 Papers: 24 networks, 29 systems
  - Accepted 21
    - 10 networks
    - 11 systems
  - Best paper award
    - Yohei Hasegawa; Morihiko Ota; Hidemi Noguchi, "Optical Communication Capacity and Quality to Maximize End-User TCP/IP Throughput"

##### **Globecom 2020, 7-11 December, Taipei**

- ONS Chairs:
  - Jiajia Chen (Chalmers University of Technology, Sweden)
  - Abdelmoula Bekkali (TOYO Electric Communications, Japan)
  - Submissions
    - 58 Papers: 26 networks, 32 systems

- Paper acceptance results delayed due to push back of paper deadline and thus review phase.

Luca mentioned that Doug Zukerman contacted him and suggested to team up with the control and management community (particularly in open ROADM and open networking areas) in order to attract submissions into ONS at Globecom and ICC. A discussion on low submission numbers ensued with Reza highlighting that a reason for low numbers could be the competition between the symposium and workshop tracks and a more coordinated effort between the two needs to be carried out. Vincent suggests to contact TAOS to see if there is an opportunity to work with them to address the workshop/symposium contention at future Globecom and ICC planning meetings.

Luca provided an update on upcoming Globecom and ICC conferences:

- OFC 2021, March 28-April 1, San Francisco, CA, USA
- ICC 2021, June 14-18, Montreal, Canada
  - Elaine Wong (University of Melbourne, Australia)
  - Chadi Assi (Concordia University, Canada)
- GC 2021, December 7-11, Madrid, Spain
  - Rudra Dutta, North Carolina State University
  - Mauro Biagi, University of Rome "La Sapienza"
- OFC 2022, March 6-10, San Diego, CA, USA
- ICC 2022, May 16-20, Seoul, Korea
  - Nominations sent
    - Marco Ruffini
    - Guido Maier
- Globecom 2022, December 4-8, Rio De Janeiro, Brasil
  - Nominations to be advised.

Other upcoming conferences:

- ICTON 2020, July 19-23, 2020, Bari, Italy (<https://icton2020.fbk.eu/>)
- CLEO Pacific Rim 2020, August 2-6, 2020, Sidney, Australia (<https://www.cleopr2020.org/>)
  - Paper Deadline: 20th March 2020
  - ONTC community may submit to C9: Optical communication systems and networks
- 5G from Theory to Practice (5GToP) Workshop, in conjunction with IEEE 5G World Forum (EXTENDED Deadline Jun. 30, 2020) <https://ieee-wf-5g.org/5g-from-theory-to-practice-5gtop-workshop/>
- IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS 2020), 14-17 December 2020, IIIT-D, New Delhi, India (Paper submission deadline July 20, 2020) (<https://ants2020.ieee-comsoc-ants.org/>)
- DRCN 2021, 19-22 April, Milan  
Guido Maier (TPC Co-Chair) and Kohei Shiomoto (TPC Co-Chair)
- Open Journal of the IEEE Communications Society, Special Issue on Machine Learning for Optical Communications and Networking (deadline pushed to 30<sup>th</sup> Sept 2020 due to research interruptions from Covid-19 and overlap with JSAC Special Issue)

#### **\*JOCN Report (from EIC Jane Simmons)**

\*Notes courtesy from Jane

**Special Issue:** Machine Learning Applied to QoT Estimation in Optical Networks

Deadline is September 8, 2020 (papers can be submitted starting on August 1)

**2020 Kao Best Paper Award:** Machine-Learning Method for Quality of Transmission Prediction of Unestablished Lightpaths from Cristina Rottondi, Luca Barletta, Alessandro Giusti, and Massimo Tornatore, Vol. 10, No. 2, February 2018.

The paper is Free to download from the OSA publishing site:  
<https://www.osapublishing.org/jocn/abstract.cfm?uri=jocn-10-2-A286>

**2020 JOCN 'Reviewer of the Year' Award:** Not announced yet

**Latest Impact Factor:** 3.43

#### **JOCN Paper Style Comments**

- Footnotes are no longer permitted (the new template doesn't have room at the bottom of the page)
- Et al. cannot be used in references. All author names must be included

#### **JOCN Technical Comments**

- Please don't use the NSF Network as a network for simulation studies. It is not representative of real US networks. The topology information for some very realistic US networks can be found at <http://monarchna.com/topology.html>. Includes a 75-node, 60-node, and 30-node network
- When running simulations, please don't focus on blocking probabilities of ~10%. Carriers would not offer a service with such a high blocking rate. Please focus on the range 10E-4 to 10E-2.

#### **7. Other business and adjournment**

Luca Valcarengi thanked all attendees and adjourned meeting.