

# ONDM 2017

21<sup>TH</sup> INTERNATIONAL CONFERENCE ON  
OPTICAL NETWORK DESIGN AND MODELING  
MAY 15-18, 2017 | BUDAPEST, HUNGARY

ondm2017.hte.hu

## OPENING

# ONDM 2017

21<sup>th</sup> International Conference on Optical Network Design and Modeling

May 15-17, 2017 Budapest, Hungary

ondm2017.hte.hu

Marco Ruffini, Hiroaki Harai, Jacek Rak  
Tibor Cinkler

# First Decade (10 Years)

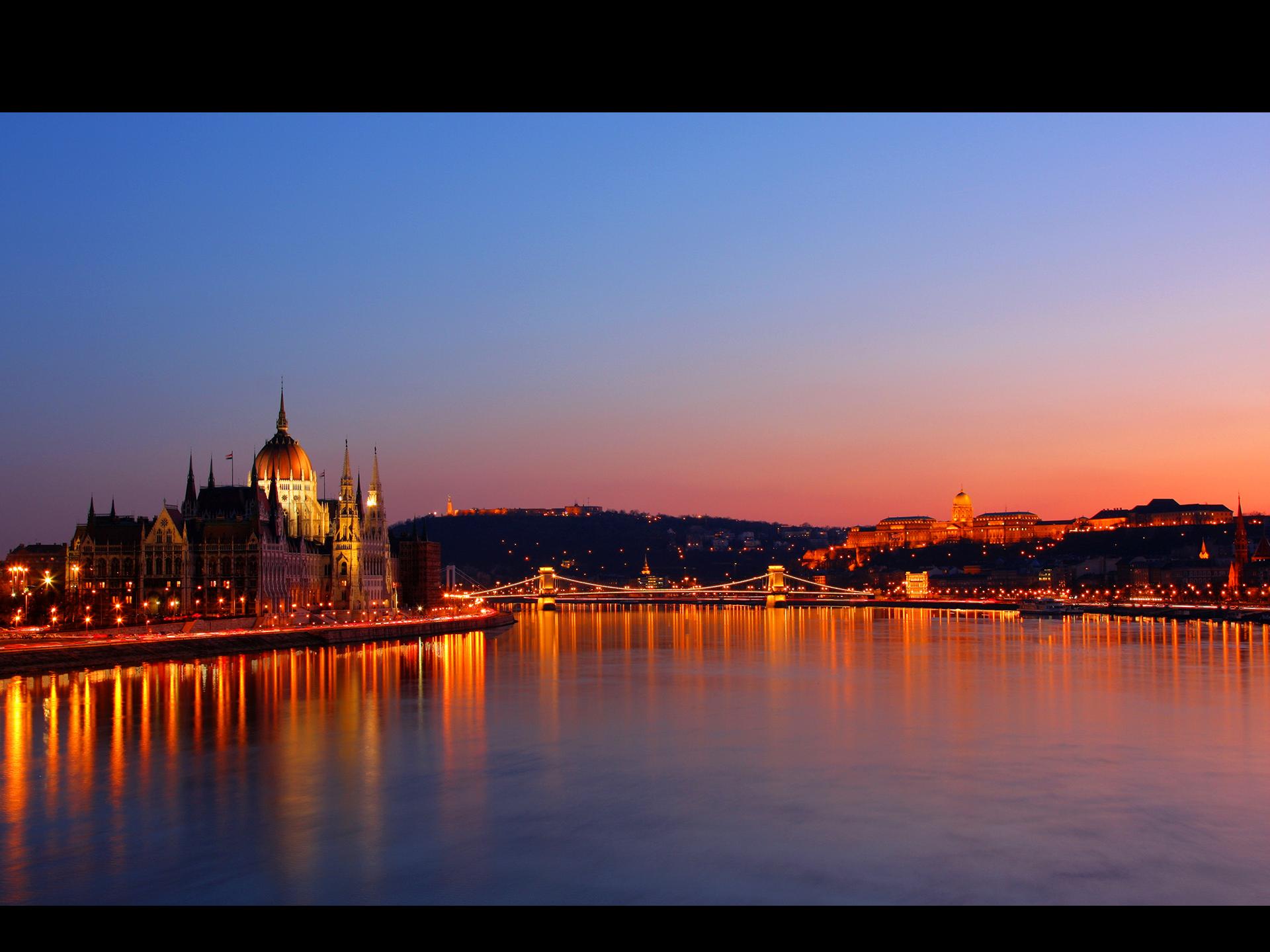
- ONDM 2006, Copenhagen, Denmark
- ONDM 2005, Milan, Italy
- ONDM 2004, Ghent, Belgium
- ONDM 2003, Budapest, Hungary
- ONDM 2002, Torino, Italy
- ONDM 2001, Vienna, Austria
- ONDM 2000, Athens, Greece
- ONDM 1999, Paris, France
- ONDM 1998, Rome, Italy
- ONDM 1997, Vienna, Austria

# **Second Decade (10 Year)**

- **OND M 2016, Cartagena, Spain**
- **OND M 2015, Pisa, Italy**
- **OND M 2014, Stockholm, Sweden**
- **OND M 2013, Brest, France**
- **OND M 2012, Colchester, UK**
- **OND M 2011, Bologna, Italy**
- **OND M 2010, Kyoto, Japan**
- **OND M 2009 Braunschweig, Germany**
- **OND M 2008, Vilanova i la Geltrú, Spain**
- **OND M 2007, Athens, Greece**

# Third Deacde (10 Year)

- ONDM 2018, to be announced at the closing...
- ONDM 2017, Budapest, Hungary



# Organisers

**BME: Budapest University of Technology and Economics**



**HTE: Scientific Association for Infocommunications**



# Technical Co-Sponsors



# **IFIP**

- International Federation for Information Processing
- <http://www.ifip.org/>

## IFIP:

- is the leading multinational, apolitical organization in Information & Communications Technologies and Sciences
- is recognized by United Nations and other world bodies
- has a formal consultative partnership relation with UNESCO
- represents IT Societies from 56 countries or regions, covering all 5 continents with a total membership of over half a million
- links more than 3500 scientists from Academia and Industry, organized in more than 101 Working Groups reporting to 14 Technical Committees
- sponsors 100 conferences yearly providing unparalleled coverage from theoretical informatics to the relationship between informatics and society including hardware and software technologies, and networked information systems

# ONDM is the FlagShip Conference of IFIP TC6 WG 6.10

**IFIP** Technical Committee 6: Communication Systems  
<http://ifip.org/tc/?tc=tc6>

**Chair: Prof. Dr. Aiko PRAS**

## **Working Groups/Special Interest Groups:**

WG 6.1: Architectures and Protocols for Distributed Systems

WG 6.2: Network and Internetwork Architectures

WG 6.3: Performance of Communication Systems

WG 6.4: Internet Applications Engineering

WG 6.6: Management of Networks and Distributed Systems

WG 6.8: Mobile and Wireless Communications

WG 6.9: Communication Systems in Developing Countries

WG 6.10: Photonic Networking

WG 6.11: Communication aspects of the e-World

WG 6.12: Service-Oriented Systems (joint with WG 8.10/2.14)

# **IFIP --- TC6 --- WG6.10**

**IFIP Technical Committee 6: Communication Systems**

WG 6.10: Photonic Networking

**<https://ifip.informatik.uni-hamburg.de/ifip/tc/6/wg/6.10>**

**Chair:** Prof. Dr. Tibor Cinkler, University of Technology and Economics, Hungary, Cha

**Vice-Chair:** Prof. Dr. Jacek Rak, Gdansk University of Technology, Poland, Vice-Chair

# Patrons / Sponsors



# BPA: Best Paper Awards

- 2 BPA:



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- **Tibor Cinkler** – BME, Hungary

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## **TPC Chairs:**

- **Marco Ruffini – Trinity College Dublin, Ireland**
- **Hiroaki Harai – NICT, Japan**
- **Jacek Rak – Gdansk University of Technology, Poland**

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  - IFIP TC6 WG6.10 Photonic Networking, Chair

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- **Lena Wosinska, KTH, Sweden**
- **Marco Ruffini – Trinity College Dublin, Ireland**

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- **Paolo Monti, KTH, Sweden**
- **János Tapolcai, BME, Hungary**

## **International Colaboration Chair**

- **Biswanath Mukherjee**

## **IEEE Liason**

- **Rolland Vida, BME, Hungary**

# The Program

## 2 Workshops:

- **Workshop on Optical networks for data centres in the 5G era**
- **FiWiN5G Workshop on Fiber-Wireless Integrated Networks for 5th Generation delivery**

## Tutorial:

- **ACINO: From Application Blending to Application Centricity**
  - Marco Savi, Ciril Rozic, Pontus Sköldström, Dimitrios Klonidis, Achim Autenrieth, Victor Lopez, Domenico Siracusa, Ioannis Tomkos

## Boat:

- **NOKIA**

# Statistics on Papers

- **3 days / 15 Sessions**
- **17 of 35 regular papers are accepted** (18 rejected, 2 withdrawn)
- **Acceptance ratio is 48.5%**
- **2 KeyNotes / 25 invited including WS papers** (13 wo WS)
- **All submitted regular papers got 3 or 4 reviews**

# Authors by Country Submitted / Accepted

Country	Authors	%	Papers (1st author)	%
Spain	36	14.5	7	12.5
France	32	12.9	8	14.3
United Kingdom	19	7.7	3	5.4
USA	18	7.3	5	8.9
P.R. China	16	6.5	5	8.9
Italy	16	6.5	2	3.6
Ireland	13	5.2	2	3.6
Hungary	12	4.8	4	7.1
Germany	11	4.4	1	1.8
Denmark	10	4.0	2	3.6
Poland	10	4.0	3	5.4
Japan	10	4.0	2	3.6
Sweden	9	3.6	1	1.8
Greece	8	3.2	3	5.4
Australia	5	2.0	1	1.8
Korea	4	1.6	0	0.0
Canada	3	1.2	1	1.8
Cyprus	3	1.2	1	1.8
Czech Republic	3	1.2	1	1.8
Slovenia	2	0.8	1	1.8
Israel	2	0.8	0	0.0
Taiwan	2	0.8	1	1.8
Hong Kong	1	0.4	1	1.8
Turkey	1	0.4	0	0.0
Brazil	1	0.4	1	1.8
Portugal	1	0.4	0	0.0
<b>Total</b>	<b>248</b>			

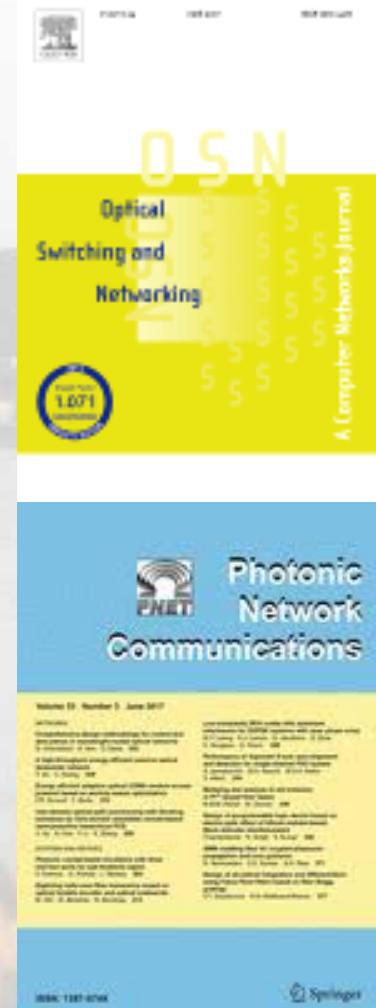
Country	Authors	%	Papers (1st author)	%
Spain	21	13.0	4	10.5
United Kingdom	17	10.5	3	7.9
France	17	10.5	5	13.2
Ireland	13	8.0	2	5.3
Denmark	10	6.2	2	5.3
USA	9	5.6	3	7.9
Italy	9	5.6	1	2.6
Poland	9	5.6	3	7.9
Hungary	8	4.9	3	7.9
Germany	7	4.3	1	2.6
Greece	7	4.3	2	5.3
P.R. China	6	3.7	2	5.3
Australia	5	3.1	1	2.6
Japan	5	3.1	1	2.6
Korea	4	2.5	0	0.0
Sweden	4	2.5	0	0.0
Cyprus	3	1.9	1	2.6
Canada	3	1.9	1	2.6
Slovenia	2	1.2	1	2.6
Hong Kong	1	0.6	1	2.6
Turkey	1	0.6	0	0.0
Brazil	1	0.6	1	2.6
<b>Total</b>	<b>162</b>			

# Papers by Topic

Topic	Count
Advances in optical network theory and modeling	9
Routing and spectrum assignment and flex-grid optical networks	15
Optical networks for future Internet design	6
Optical network control and management	12
Energy efficiency in optical networks	3
Optical network survivability	3
Novel architectures for optical routers and switches	3
Optical networks to support cloud computing	3
Software defined optical networking and network function virtualization (NFV)	9
Optical access network architectures and protocols	6
Techno-economic analysis of optical networks	6
High speed optical LANs including optical wireless networks	1
Field trials, new applications and experiments in optical networking	2
Convergence of optical and wireless networks	3
Security and privacy in optical networks	1
Protection and resiliency in optical networks	4
Inter- and intra- datacenter optical networks	8
Optical networks exploiting photonic integrated circuits	1
Interoperation between power (smart) grid and optical networks	0
Optical infrastructure for 5G mobile/wireless	6

# Journal Publication of Selected ONDM 2017 Papers

- **OSN SI, George Rouskas, Admela Jukan**
  - Optical Switching and Networking
  - 2018 Q1-Q2
- **PNC SI, Byrav Ramamurthy**
  - Photonic Network Communications





# Internet & Proceedings

- **Wi-Fi Access Provided by our patron Invitech Ltd**
  - SSID: ONDM-2017
  - PWD: Budapest
- **On-line Proceedings IFIP Digital Library:**
  - **OPEN ACCESS!!!**
  - <http://dl.ifip.org/db/conf/ondm/ondm2017/index.html>
  - [www.ondm2017.hte.hu](http://www.ondm2017.hte.hu) / Program / On/Line Proceedings
  - IEEEExplore as well

# Dinners

- **Monday, May 15, 2017 - 19:00 - 21:00**
  - Restaurant, Grand Hotel Margitsziget
- **Tuesday, May 16, 2017 - 19:00 - 21:00**
  - Ybl room, Grand Hotel Margitsziget
- **Etc. Bathing, Swimming, Jogging, Biking**
- **Ship**
- **fina-budapest2017.com**
  - 2017. 07. 14 - 30.



**FINA**  
WORLD  
CHAMPIONSHIPS

# Acknowledgements

- TPC Chair: Marco Ruffini, Hiroaki Harai, Jacek Rak
- Lena Wosinska
- Ákos Ladányi
- Steering Committee
- Péter Nagy, Mária Tézsla, HTE
- George Rouskas – ONTC support
- Ahmed E. Kamal – TAOS support
- Aiko Pras - TC6 Chair
- Eduard Dundler – IFIP Digital Library
- Sponsors
- All the Authors
- All the Reviewers
- All the Attendees

We wish You a very fruitful and pleasant  
ONDM 2017!

