IFIP WG6.6 & IEEE CNOM Joint Meeting @ NOMS 2020

IEEE/IFIP Network Operations and Management
Symposium

Budapest, Hungary (Virtual) April 20-24, 2020





Meeting Overview

- Overview of CNOM and IFIP WG
- Journals and special issues
- Conferences and workshops
- Technical Committee activities

CNOM

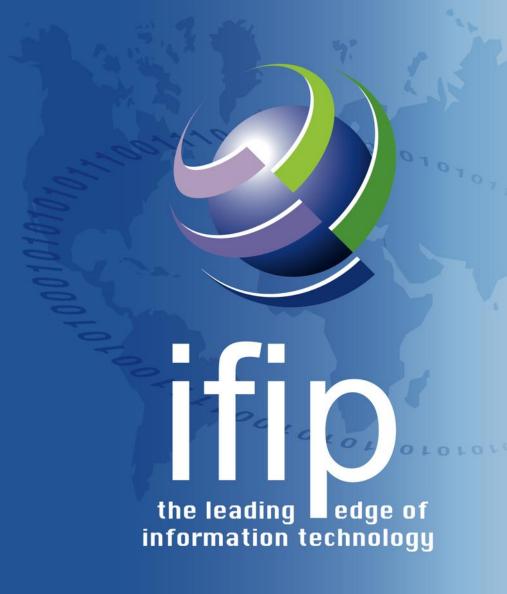
- IEEE organization into Societies
 - IEEE Communication Society composed of Technical Committees
 - **CNOM** (Committee on Network Operations and Management) Technical Committee dealing with network management and operations, and ultimately representing this community in IEEE structure

CNOM

- CNOM officers (since 04/2019)
 - Chair: Filip De Turck, Ghent University, Belgium
 - Vice-chair: Marinos Charalambides,
 University College London, UK
 - TPC chair: Carol Fung, Virginia Commonwealth University, USA
 - Secretary: Carlos Raniery P. dos Santos, Federal
 University of Santa Maria, Brazil

CNOM

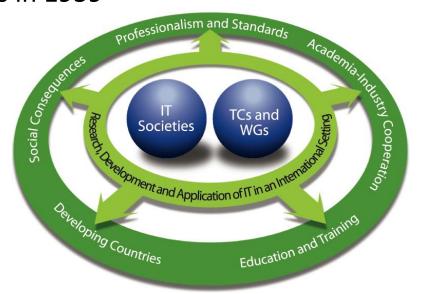
- How to participate?
 - Subscribing to the CNOM mailing list
 - http://cnom.committees.comsoc.org go to "Members"
 - Becoming an Active Member by satisfying at least one of these conditions in the last two years:
 - Attended (physically or remotely) at least one CNOM meeting
 - Served as TPC or OC member of NOMS/IM, APNOMS, LANOMS
 - Served as an editorial board member or editorial advisory board member of JNSM, TNSM, or IJNM
 - Representing CNOM on ICC and GlobeCom Symposia
 - ICC 2021, 2022
 - GlobeCom 2021



TC 6 WG 6.6 Network & Service Management



- Non-governmental, not-for-profit umbrella organization of national learned societies working in the field of Information Technology
- Established in 1960 under the auspices of UNESCO as a result of the first World Computer Congress held in Paris in 1959





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Technical Committees

	TC1	Foundations	of Comp	uter Science
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TC2 Software: Theory and Practice

TC3 Education

TC5 Information Technology Applications

TC6 Communication Systems

TC7 System Modeling and Optimization

TC8 Information Systems

TC9 ICT and Society

TC10 Computer Systems Technology

TC11 Security and Privacy Protection in Inf. Processing Systems

TC12 Artificial Intelligence

TC13 Human-Computer Interaction

TC14 Entertainment Computing



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Technical Committee TC6

- **WG 6.1** Architectures and Protocols for Distributed Systems
- **WG 6.2** Network and Internetwork Architectures

WG 6.6 Management of Networks and Distributed Systems

- WG 6.7 Smart Networks
- WG 6.8 Mobile and Wireless Communications
- **WG 6.9** Communications Systems for Developing Countries
- WG 6.10 Photonic Networking
- WG 6.11 Communication Aspects of the E-World
- WG 6.12 Services-Oriented Systems



WG6.6 Activities

- Joint work with IEEE CNOM
- Open platform for community building, animation, promotion and structure setting
- Co-organizing of conferences
- Promoting of journals
- Sponsoring excellence
 - Best paper awards (3-4 per year)
 - Student travel grants (+/- 10 per year)
- IFIP fees paid by the supported workshops and conferences are « re-invested » in our conferences for our community
- All the WG6.6 and CNOM involvement is volunteered
- On the IFIP WG6.6 side: encouraging the alignment of the WG6.6 supported conferences to the TC6 strategy on the Open Digital Library



What does « WG6.6 Member » mean?

- IFIP WG 6.6 Officer
 - Chair: Rémi Badonnel TELECOM Nancy, France (since 04/2019)
- Actively volunteer to
 - Contribute to reviews of the community conferences, workshops and journals
 - Encourage and do submissions to the community events and journals
 - Join TPCs and OCs
 - Be active in the mailing-lists
 - Participate to our conferences and meetings



How to get involved?

- Participate to the WG6.6 meetings in our conferences
 - NOMS, IM, CNSM, TMA
- React and talk on the mailing list (222 pers.)

ifip_nm@lists.utwente.nl

Visit our IFIP WG6.6 website

wg66.ifip.org

Follow us on twitter

@ifipwg66



IFIP WG6.6 and CNOM Report

Overview of journals, their impact factors, special issues and upcoming calls

IEEE Transactions on Network and Service Management (TNSM)

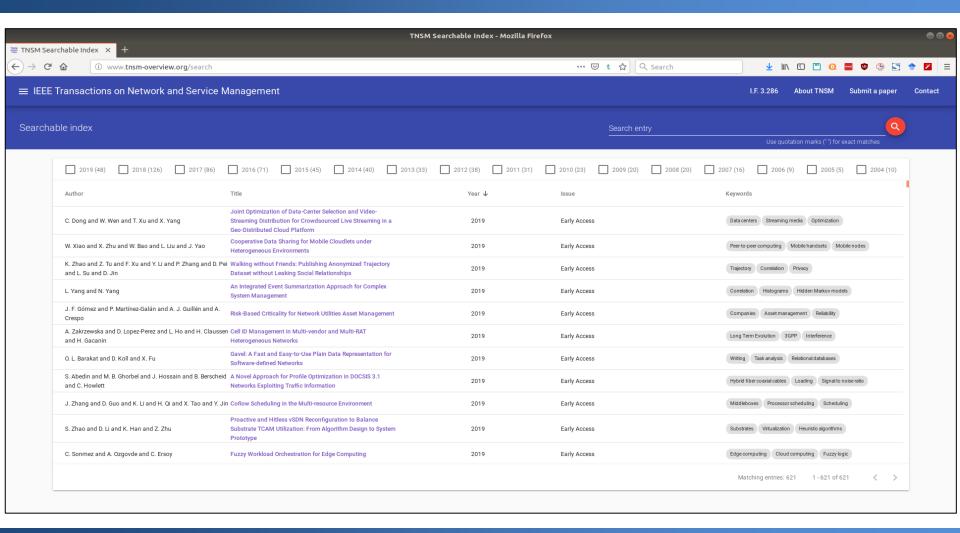
- EiC: Prof. Filip De Turck
- Journal with the highest impact factor within our community
- NETWORK AND
 SERVICE MANAGEMENT
- A PUBLICATION OF THE IEEE COMMUNICATIONS SOCIETY
- Indexed by Scopus and many others
- http://www.comsoc.org/tnsm/

	2011	2012	2013	2014	2015	2016	2017	2018
SJR	0.291	0.577	0.369	0.717	0.649	0.663	0.63	0.846
SNIP	0.889	1.719	1.241	1.662	2.322	2.251	2.056	2.440
Citations	104	136	152	153	385	474	683	1181

IEEE Transactions on Network and Service Management (TNSM)

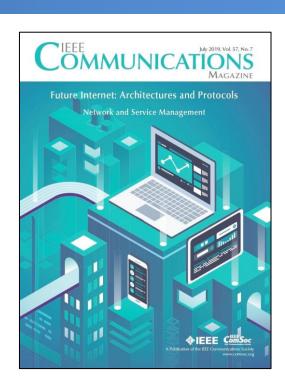
- Submission format: updated page charges
- Regular calls + special issues + extended versions of best papers selected from conferences
- Current issue: Volume 17, Issue 1
- Thomson Reuters Impact factor: 4.682
- **H-index: 35** (as of 03/20)

TNSM Overview — Analytics http://www.tnsm-overview.org



IEEE ComMag - Network and Service Management Series

- Magazine Series Editors
 - Prof. George Pavlou
 g.pavlou@ee.ucl.ac.uk
 University College London, UK
 - Prof. Jürgen Schönwälder
 j.schoenwaelder@jacobs-university.de
 Jacobs University Bremen, Germany
- Submission format: 7 pages
- http://www.comsoc.org/publications/magazines/ieeecommunications-magazine



IEEE ComMag - Network and Service Management Series

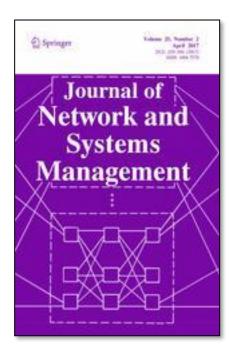
Issue	Published	Submitted	Accepted	Acc. ratio
1	October 2005	21	4	19%
2	March 2006	23	5	22%
3	October 2006	17	4	24%
4	April 2007	23	4	17%
5	October 2007	14	4	29%
6	April 2008	32	5	16%
7	October 2008	23	4	17%
8	July 2009	29	4	14%
9	November 2009	21	1	5%
10	July 2010	21	3	14%
11	December 2010	22	3	14%
12	July 2011	22	4	18%
13	December 2011	35	4	11%
14	July 2012	20	5	25%
15	December 2012	13	3	23%

IEEE ComMag - Network and Service Management Series

Issue	Published	Submitted	Accepted	Acc. ratio
16	July 2013	21	4	19%
17	December 2013	22	5	23%
18	July 2014	22	4	18%
19	January 2015	18	3	17%
20	July 2015	16	4	25%
21	January 2016	28	4	14,3%
22	July 2016	16	3	18,8%
23	January 2017	18	2	11,1%
24	July 2017, Vol 55, No.7	23	4	17,4%
25	January 2018, Vol 56, No.1	19	3	15,8%
26	July 2018, Vol 56, No. 7	19	4	21%
27	January 2019, Vol 57, No. 1	21	4	19%
28	July 2019, Vol 57, No. 7	18	3	16,7%
29	March 2020, Vol 58, No. 3	16	3	18,8%

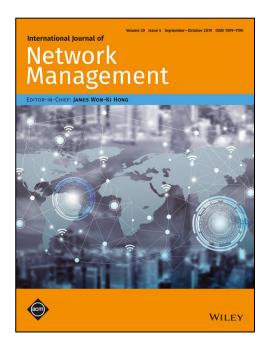
Journal of Network and Systems Management (JNSM)

- EiC: Prof. Luciano P. Gaspary
- International journal published by Springer / 4 x year
- Current issue: Volume 28, Issue 2
- ISI impact factor:
 - 0.685 (2008)
 - 0.450 (2010)
 - -0.432(2012)
 - -0.796(2014)
 - -1.588(2016)
 - **1.676 (2018)**
- H-index: 30
- Usage: 34288 downloads
- https://www.springer.com/journal/10922



International Journal of Network Management (IJNM)

- EiC: Prof. James Won-Ki Hong
- AEiC: Lisandro Z. Granville, Jérôme François
- Journal published by Wiley / 6 x year (since 2011, online only)
- Current issue: Volume 30, Issue 2
- Virtual issues published every year
 - Open access for the most cited papers
- ISI impact factor:
 - -0.323(2010)
 - -0.510(2012)
 - 0.283 (2014)
 - 0.681 (2015)
 - 1.118 (2016)
 - -1.340(2017)
 - **1.231 (2018)**



https://onlinelibrary.wiley.com/journal/10991190

IEEE Journal on Selected Areas in Communications (JSAC)

- EiC: Prof. Raouf Boutaba
- International journal published by IEEE
- Current issue: Volume 38, Issue 2
- ISI impact factor:
 - -4.138(2013)
 - -3.453(2014)
 - **-** 3.672 (2015)
 - **–** 8.085 (2016)
 - **-** 7.172 (2017)
 - **9.302 (2018)**

IEEE JOURNAL ON

SELECTED AREAS IN COMMUNICATIONS

https://www.comsoc.org/publications/journals/ieee-jsac

Special Issues

TNSM

- May 1, 2020: Data Analytics and Machine Learning for Network and Service Management
- May 15, 2020: Advanced Management of Softwarized Networks
- October 2020: Latest Developments for Security Management of Networks and Services
- November 2020: Design and Management of Reliable Communication Networks

COMMAG

- Move from a deadline-driven system to a rolling open call system
- Series on Network and Service Management
- Series on Telecom Software, Network Virtualization, and Software-Defined Networks

IJNM

May 2020: Security, Trust and Privacy in Internet of Things: Challenges and solutions

JNSM

- April 30, 2020: Intelligent and Trustworthy Internet Edge

TNSM, IJNM and JNSM

Are accepting submissions for Special Issues!

JSAC Special Issues

- October 1, 2020: UAV Communications in 5G and Beyond Networks
- July 1, 2020: Age of Information in Real-time Systems and Networks
- June 1, 2020: Latest Advances in Optical Networks for 5G
 Communications and Beyond
- May 1, 2020: TeraHertz Communications and Networking
- January 15, 2020: Massive Access for 5G and Beyond
- December 1, 2019: 5G Wireless Communications with High Mobility
- December 1, 2019: Wireless Networks Empowered by Reconfigurable Intelligent Surfaces
- December 1, 2019: Internet of Things for In-Home Health Monitoring

IFIP WG6.6 and CNOM Report

Overview and Statistics of Current and Future Conferences

2019 Conferences

	Submitted	Accepted	A.R.	Attendees	Proceedings
IM 2019	131	39	29,7%	~170	IFIP DL, Xplore
TMA 2019	64	25	36,9%	144	IFIP DL, Xplore
NETSOFT 2019	103	20	19,2%	151	Xplore
LANOMS 2019	25	10	40%	~60	IFIP DL, Xplore
CNSM 2019	127	21	16,5%	~134	IFIP DL, Xplore

2020 Conferences

	Submitted	Accepted	A.R.	Attendees	Proceedings
NOMS 2020	243	72	29.6%	285	IFIP DL, Xplore
TMA 2020	54	18	33.3%		IFIP DL, Xplore
NETSOFT 2020	90	18	20.5%		Xplore
APNOMS 2020	Call open				Xplore
CNSM 2020	Call open				IFIP DL, Xplore

NOMS 2020

- 20-24 April, 2020, Budapest, Hungary
- Run as a virtual conference for the first time



https://noms2020.ieee-noms.org

- Chairs
 - General Chairs
 - Pal Varga, Doug Zuckerman
 - TPC Chairs
 - Imen Grida Ben Yahia, Alex Galis, Istvan Godor



NOMS 2020

Conference Program

- Theme: Management in the Age of Softwarization and Artificial Intelligence
- 20 Technical Sessions (72 papers), 3 Keynotes, 3 Tutorials
- 2 Experience Sessions, 2 Dissertation Sessions, 3 Demo Sessions
- 6 Co-located Workshops
 - Analytics for Network and Service Management (AnNet)
 - Security for Emerging Distributed Network Technologies (DISSECT)
 - Graph-based Network Security (GRASEC)
 - Intelligent Transportation and Connected Vehicles Technologies (ITCVT)
 - Management for Industry 4.0
 - Orchestration for Software Defined Infrastructures (O4SDI)

Future Conferences

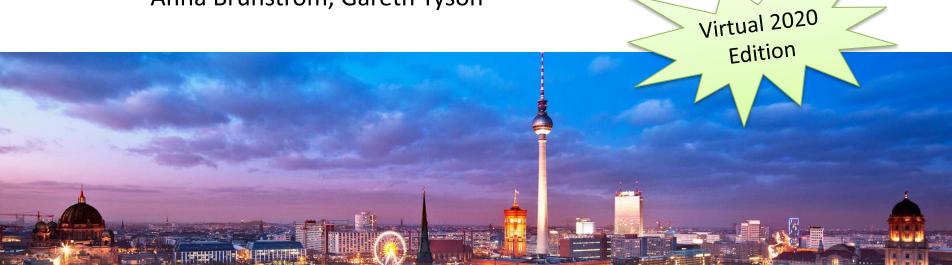
- TMA 2020 (IFIP)
 - June 10-12, 2020, Berlin, Germany
- TC6: Networking 2020 (IFIP/IEEE)
 - June 22-26, 2020, Paris, France
- NetSoft 2020 (IEEE)
 - June 29-July 3, 2020, Ghent, Belgium
- CNSM 2020 (IFIP/IEEE COMSOC/ACM SIGCOMM)
 - November 2-6, 2020, Izmir, Turkey
- IM 2021 (IFIP/IEEE)
 - May 17-21, 2021, Bordeaux, France

TMA 2020

- 10-12 June, 2020, Berlin, Germany
- Chairs
 - General Chairs
 - Georgios Smaragdakis, Anja Feldmann
 - TPC Chairs
 - Anna Brunström, Gareth Tyson



http://tma.ifip.org/2020



Networking 2020

- 22-26 June, 2020, Paris, France
- Chairs
 - General Chairs
 - Guy Pujolle, Raouf Boutaba
 - TPC Chairs
 - Xiaoming Fu, Silvia Giordano, Christian Jacquenet



https://networking.ifip.org/2020/



Netsoft 2020

- 29 June 3 July, 2020, Ghent, Belgium
- Chairs
 - General Chairs
 - Filip De Turck, Prosper Chemouil
 - TPC Chairs
 - Tim Wauters, Mohamed Faten Zhani, Walter Cerroni



https://netsoft2020.ieeenetsoft.org/

Virtual 2020



CNSM 2020

- 2-6 November, 2020, Izmir, Turkey
- Chairs
 - General Chairs
 - Nur Zincir-Heywood, Mehmet Ulema
 - TPC Chairs
 - Muge Sayit, Stuart Clayman



http://cnsm-conf.org/2020

Paper Submission: June 21, 2020



IM 2021

- 17-21 May, 2021, Bordeaux, France
- Chairs
 - General Chairs
 - Toufik Ahmed, Olivier Festor
 - TPC Chairs
 - Yacine Ghamri-Doudane,



http://www.ieee-im.org



Call for Symposium Chairs and Nominations

- IEEE Globecom 2021
 - Madrid, Spain
 - 7-11 December, 2021
- IEEE ICC 2022
 - Seoul, South Korea
 - 16 20 May, 2022

IFIP WG6.6 and CNOM Report

Community-wide Activities

CNOM Recertification

- Requested by the ComSoc TC Board to all TCs
- Submission of document to mention the achievements and vision
- Positive evaluation is required to continue the TC

Successfully approved for CNOM!

CNOM P&P Document

- Defines TC structure and operation
- New P&P document requested by TC Board
 - https://cnom.committees.comsoc.org/about-cnom/policiesprocedures/
- Main changes:
 - Clearly defined objectives (clause 2)
 - TC Member definition, subcommittees and SIGs (in clause 3)
 - Activities and responsibilities of CNOM officers (clause 4)
 - Further election procedures, awards (in clause 6)
- Feedback is welcome (email CNOM officers) until May 5,
 2020

CNOM BPA

- Newly established CNOM Best Paper Award
- Eligibility:
 - Papers published in CNOM conferences (2018 and 2019)
 - IM, NOMS, CNSM, APNOMS, LANOMS, NetSoft, ICIN, NoF, DRCN, ITC, BRAINS, ICC, GLOBECOM
 - Self-nomination is allowed
 - Nominations by TPC chairs of supported/endorsed events
- Chair:
 - Carol Fung (Virginia Commonwealth University, USA)

IEEE Distinguished Lecturers

- Nomination of DLs on behalf of the TC. Each TC is encouraged to nominate up to 4 DLs.
 - https://www.comsoc.org/about/memberprograms/distinguished-lecturers
- Some important facts about the process:
 - DLs must be a Senior Member of IEEE or higher.
 - DLs must be a member of ComSoc.
 - DLs must be willing to create a conference tutorial if requested.
 - A nominee may be nominated by either a person or a TC, but a TC nomination is preferred.
 - Nominators must be IEEE ComSoc members and IEEE Senior Member or higher,
 TC chair preferred.
 - Nominations are due each year by September. The Distinguished Lecturers Selection Committee will begin processing nominations at that time.

IEEE Student Competition

The Competition is open to graduate and undergraduate students, who are members of the IEEE Communications Society.

Its purpose is to recognize students or teams of students who demonstrate the capacity to improve the lives of people, through the application of communication technology and the development of projects that meet the human needs of people.

The First Prize consists of \$2000 + plaque.

Winner(s) will be invited to receive it at IEEE GLOBECOM.

See all details at:

http://www.comsoc.org/communications-technology-changing-world

The deadline for submissions is each year in September.

The IEEE ComSoc Student Competition has been a great success since its first edition in 2013.

Network and Service Management Taxonomy

 Jeroen van der Hooft, et al. Updated Taxonomy for the Network and Service Management Research Field. Journal of Network and Systems Management, Volume 26, Issue 3, July 2018, pp. 790–808

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https://en.wikipedia.org/wiki/
network_and_service_management_taxonomy
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- The taxonomy is being updated
- Contact: Carlos Raniery Paula dos Santos (UFSM, Brazil)
 - csantos@inf.ufsm.br

Young researchers: contributions to organizational tasks in community

- Please contact CNOM / IFIP WG 6.6 officers
- Open to contributions at future conferences
- Meet experts and broaden your network
- Build your CV

Recently established TC Newsletter

- IEEE ComSoc Technical Committees: educate, promote and accelerate the technological advancements in communications and networking
- IEEE ComSoc TCN Editorial Team: Nelson Fonseca,
 Muhammad Zeeshan Shakir, and Lisandro Zambenedetti
 Granville
- https://www.comsoc.org/publications/tcn
- Appeared in November 2019
- The newsletter also presents reports from IEEE ComSoc Technical Committees and Emerging Technologies Initiatives to share their past, ongoing and future planned technical activities and views, findings, and advancements.

Any Other Business

All suggestions are welcome!

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Symposium

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