IFIP WG6.6 & IEEE CNOM Joint Meeting (@NOMS 2022, hybrid)

April 26, 2022
Meeting Overview

1. Overview of CNOM and IFIP WG6.6
2. Conference statistics and upcoming events
3. Journals, their impact factors and upcoming special issues
4. CNOM SIGs (Special Interest Groups): overview and proposals
5. CNOM awards and award committees
6. Outreach
7. IEEE ComSoc distinguished lecturer program
8. IEEE ComSoc student competition
9. Initiatives and opportunities for young researchers
1. Overview of CNOM and IFIP WG6.6 Groups
IEEE organized into Societies

→ IEEE Communication Society (ComSoc) composed of Technical Committees

→ Committee on Network Operations and Management (CNOM) deals with network operations and network/service management, promotes and represents this community

https://cnom.committees.comsoc.org
CNOM officers (05/2021 → 05/2023)

- **Chair**: Noura Limam, University of Waterloo, Canada
- **Vice-chair**: Marinos Charalambides, Huawei Technologies, Belgium
- **TPC chair**: Carol Fung, Concordia University, Canada
- **Secretary**: Carlos Raniery P. dos Santos, Federal University of Santa Maria, Brazil

https://cnom.committees.comsoc.org/about-cnom/members/officers/
How to join?

• Subscribe to the **CNOM mailing list**
• Become 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, CNSM, APNOMS, LANOMS, NetSoft
  • Served as an editorial board member or editorial advisory board member of JNSM, IJNM, or TNSM

[https://cnom.committees.comsoc.org/about-cnom/how-to-join/](https://cnom.committees.comsoc.org/about-cnom/how-to-join/)
• 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
ifip

Technical Committees

TC1 Foundations of Computer Science
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
TC12 Artificial Intelligence
TC13 Human-Computer Interaction
TC14 Entertainment Computing

Burkhard Stiller
TC6 Chair
Technical Committee TC6

WG6.1  Architectures and Protocols for Distributed Systems
WG6.2  Network and Internetwork Architectures

WG6.6 Management of Networks and Distributed Systems

WG6.7  Smart Networks
WG6.8  Mobile and Wireless Communications
WG6.9  Comm. Systems for Developing Countries
WG6.10  Photonic Networking
WG6.11  Communication Aspects of the E-World
WG6.12  Services-Oriented Systems

Rémi Badonnel
WG6.6 Chair
WG6.6 Activities

- Joint work with IEEE CNOM
- Open platform for community building, animation, promotion and structure setting
  - Co-organizing conferences
  - Promoting journals
  - Sponsoring excellence
    - Best paper awards (3-4 per year)
    - Student travel grants (+/- 10 per year)
- All the WG6.6 / 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 (dl.ifip.org)
What does « WG6.6 Member » mean?

- 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

- Contact: IFIP WG6.6 Officer
  - Rémi Badonnel – TELECOM Nancy, France (since 2019), badonnel@loria.fr
How to get involved?

- Participate to the WG6.6 meetings in our conferences
  - CNSM, NOMS, IM, TMA
- React and talk on the mailing list (222 pers.)
  ifip_nm@listes.telecomnancy.eu
- Visit our IFIP WG6.6 website
  wg66.ifip.org
- Follow us on twitter
  @ifipwg66
2. Conference statistics and current/upcoming events
## 2. Conference Statistics

<table>
<thead>
<tr>
<th>Conference</th>
<th>Submitted</th>
<th>Accepted (full)</th>
<th>A.R.</th>
<th>Attendees</th>
<th>Proceedings</th>
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<tbody>
<tr>
<td>IM 2021</td>
<td>191</td>
<td>46</td>
<td>24.1%</td>
<td>335</td>
<td>IFIP DL, Xplore</td>
</tr>
<tr>
<td>ITC 33</td>
<td>27</td>
<td>11</td>
<td>40.7%</td>
<td>144</td>
<td>IFIP DL, Xplore</td>
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<tr>
<td>TMA 2021</td>
<td>40</td>
<td>18</td>
<td>45%</td>
<td>115</td>
<td>IFIP DL, Xplore</td>
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<tr>
<td>NoF 2021</td>
<td>41</td>
<td>12</td>
<td>29.3%</td>
<td>65</td>
<td>Xplore</td>
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<tr>
<td>CNSM 2021</td>
<td>93</td>
<td>18</td>
<td>19.4%</td>
<td>178</td>
<td>IFIP DL, Xplore</td>
</tr>
<tr>
<td>ICIN 2022</td>
<td>43</td>
<td>9</td>
<td>20.9%</td>
<td>130</td>
<td>Xplore</td>
</tr>
<tr>
<td>NOMS 2022</td>
<td>173</td>
<td>43</td>
<td>24.8%</td>
<td>356</td>
<td>IFIP DL, Xplore</td>
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<tr>
<td>Networking 2022</td>
<td>160</td>
<td>47</td>
<td>29.3%</td>
<td></td>
<td>IFIP DL, Xplore</td>
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<td>NetSoft 2022</td>
<td>85</td>
<td>21</td>
<td>24.7%</td>
<td></td>
<td>Xplore</td>
</tr>
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</table>
2. Current and Upcoming Events

NOMS 2022 (IEEE/IFIP)
   April 25-29, 2022, Budapest, Hungary

Networking 2022 (IFIP/IEEE)
   June 13-16, 2022, Catania, Italy

NetSoft 2022 (IEEE)
   June 27-July 1, 2022, Milan, Italy

TMA 2022 (IFIP)
   June 27-July 1, Enschede, The Netherlands

ITC 34 (IFIP/IEEE/In Coop. with ACM SIGCOMM)
   September 14-16, 2022, Shenzhen, China

APNOMS 2022 (IEEE)
   September 28-30, 2022, Takamatsu, Japan

NoF 2022 (IEEE)
   October 5-7, 2022, Ghent, Belgium

CNSM 2022 (IFIP/IEEE/In Coop. with ACM SIGCOMM)
   October 31-November 4, 2022, Thessaloniki, Greece

NOMS 2023 (IEEE/IFIP)
   May 8-12, 2023, Miami, Florida, USA
NOMS 2022

April 25 – 29, 2022, Budapest, Hungary (hybrid)

General co-chairs
Paul Varga,
Lisandro Z. Granville

TPC co-chairs
Alex Galis, Istvan Godor,
Noura Limam, Prosper Chemouil

https://noms2022.ieee-noms.org
NetSoft 2022

June 27 – July 1, 2022, Milan, Italy

**General co-chairs**
Alexander Clemm, Guido Maier

**TPC co-chairs**
Carmen Mas Machuca, K.K. Ramakrishnan, Fulvio Risso

https://netsoft2022.ieee-netsoft.org
TMA 2022

June 27 – July 1, 2022, Entschede, The Netherlands

General co-chairs
Anna Sperotto,
Roland van Rijswijk-Deij

TPC co-chairs
Roya Ensafi,
Andra Lutu

http://tma.ifip.org
September 14 – 16, 2022, Shenzhen, China

**General co-chairs**
- Z.-Q. Tom Luo,
- Zhisheng Niu

**TPC co-chairs**
- Minghua Chen,
- Longbo Huang,
- Patrick Loiseau,
- Weina Wang

https://itc34.org

Paper submission deadline: May 15, 2022
September 28-30, 2022, Takamatsu, Japan

**General co-chairs**
Yuji Nomura

**TPC co-chairs**
Hiroki Nakayama,
You-Chiun Wang, Kyungbaek Kim

http://apnoms.org

**Paper submission deadline:**
May 30, 2022
October 5-7, 2022, Ghent, Belgium

**General chair**
Tim Wauters

**TPC co-chairs**
Maurice Khabbaz,
Federica Paganelli

NoF 2022

https://nof2022.dnac.org

Paper submission deadline:
May 15, 2022
CNSM 2022

October 31 – November 4, 2022, Thessaloniki, Greece

General co-chairs
Marinos Charalambides,
Panagiotis Papadimitriou

TPC co-chairs
Walter Cerroni,
Salil Kanhere,
Lefteris Mamatas

http://cnsm-conf.org/2022
Paper submission deadline:
June 17, 2022
NOMS 2023

May 8 – 12, 2023, Miami, FL, USA

General chair
Kemal Akkaya,
Olivier Festor

TPC co-chairs
Mohammad Ashiqur Rahman, Carol Fung,
Lisandro Zambenedetti-Granville

https://www.ieee-noms.org
3. Journals, their impact factors, and upcoming special issues
IEEE Transactions on Network and Service Management (TNSM)

EiC: Prof. Hanan Lutfiyya (since January 2022)
- Subscription-based & open access
- Open call & special issues
- Frequency: 4 issues / year
- Current issue: Volume 19, Issue 1
- JCR Impact factor: 4.195
- H-index: 51 (as of 04/22)

http://www.comsoc.org/tnsm/
IEEE ComMag – Network Softwarization and Management Series

Series Editors: Walter Cerroni, Oscar Mauricio Caicedo Rendón, Noura Limam

• Consolidation of 2 series: Telecom Software, Network Virtualization and Software Defined Networks & Network and Service Management
• Open call
• Frequency: 4 issues / year (~4 papers/12 submissions)
• IEEE ComMag JCR impact factor: 9.619

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<th>Issue</th>
<th>Published</th>
<th>Accepted</th>
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<tr>
<td>1</td>
<td>October 2020, Vol 58, No. 10</td>
<td>6</td>
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<tr>
<td>2</td>
<td>March 2021, Vol 59, No. 3</td>
<td>5</td>
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<td>3</td>
<td>June 2021, Vol 59, No. 6</td>
<td>4</td>
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<td>4</td>
<td>October 2021, Vol 59, No. 10</td>
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<td>5</td>
<td>February 2022, Vol 60, No. 2</td>
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Journal of Network and Systems Management (JNSM)

EiC: Prof. Luciano P. Gasparo

- Subscription-based & open access
- Open call & special issues
- Publisher: Springer
- Frequency: 4 issues / year
- Last issue: Volume 30, Issue 3 (July 2022)
- ISI impact factor:
  - 1.588 (2016)
  - 1.676 (2018)
  - 2.250 (2019)
  - **2.590 (2020)**
- H-index (2021): **35**
- Usage (2021): **63.958 downloads**

https://www.springer.com/journal/10922
EiC: Prof. James Won-Ki Hong
AEiC: Jérôme François and Lisandro Z. Granville
• Subscription-based & open access for most cited papers
• Publisher: Wiley
• Frequency: 6 issues / year (since 2011, online only)
• Current issue: Volume 32, Issue 3
• ISI impact factor:
  – 1.118 (2016)
  – 1.340 (2017)
  – 1.231 (2018)
  – 1.338 (2019)
  – **1.712 (2020)**

https://onlinelibrary.wiley.com/journal/10991190
IEEE Journal on Selected Areas in Communications (JSAC)

EiC: Petar Popovski
- Subscription-based
- Special issues
- Frequency: 12 issues / year
- Current issue: Volume 40, Issue 5
- JCR impact factor: 9.114
- H-index: 236

https://www.comsoc.org/publications/journals/ieee-jsac/cfp
TNSM
- April 30, 2022: Machine Learning and Artificial Intelligence for Managing Networks, Systems, and Services
- October 1, 2022: The Latest Developments in Federated Learning for the Management of Networked Systems and Resources

COMMAG
- Open call: Series on Network Softwarization and Management

JNSM
- May 31, 2022: High-Precision, Predictable and Low-Latency Networking

JSAC
- May 15, 2022: Multi-Tier Computing for Next Generation Wireless Networks
- July 1, 2022: Rate Splitting for Future Wireless Networks
- August 1, 2022: Beyond Shannon Communications: A Paradigm Shift to Catalyze 6G
- September 15, 2022: Next Generation Ultra-Reliable and Low-Latency Comm.
- September 15, 2022: 3GPP Technologies: 5G-Advanced and Beyond
4. Special Interest Groups
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- Foster collaboration within and across TCs
- Foster interaction with industry
- Organize workshops, special issues, feature topics, conference talks, vision papers

- CNOM SIGs
  - Flexible Addressing, Routing and Management across Limited Domains (ARMS)
    - Communications Switching & Routing (CSR) TC
  - Autonomous Networking Technologies (ANT)
  - Security Management of Networks and Services (to come)
  - AI-based Network Management (to come)
ARMS SIG

Officers
• Chair: Alex Galis, UCL, UK a.galis@ee.ucl.ac.uk
• Vice Chair: David Lou, Huawei Technologies, Germany

Scope
• A holistic approach to cross-domain addressing, routing and management for service performance guarantees, improved security and privacy, extended data plane programmability and network scalability, to meet 6G emerging requirements.

Activities
• 2nd edition of Semantic Addressing and Routing for Future Networks (SARNET) workshop collocated with High Performance Switching and Routing (HPSR) 2022
• Prepare a feature topic at IEEE Communications Magazine based on the scope of ARMS SIG
Officer

- Chair: Laurent Ciavaglia, Rakuten Mobile, France
  laurent.ciavaglia@rakuten.com
5. CNOM Awards
5. CNOM Awards

- **Dan Stokesberry** Award
  NOMS/IM Steering Committee (NISC)
- **Salah Aidarous** Award
  NOMS/IM Steering Committee (NISC)
- **Best Paper** Award
  CNOM award Subcommittee: Carol Fung (chair), Takeru Inoue, Jinho Hwang, Ai-Chun Pang, Walter Cerroni
- **Test of Time Paper** Award
  CNOM award Subcommittee: Yixin Diao (chair), Deep Medhi, Salil Kanhere, Lea Skorin-Kapov, Carlos Raniery P. dos Santos
- **Young Professional** Award
  CNOM award Subcommittee: Nur zincir-Heywood (chair), Prosper Chemouil, Zuqing Zhu, Xiaoming Fu, Taghrid Samak

https://cnom.committees.comsoc.org/about-cnom/awards/
IEEE Fellow one of the highest honors that can be granted to a member of IEEE for their outstanding technical, educational, and leadership achievements.

• Eligibility:
  – contributed importantly to the advancement or application of engineering, science and technology, bringing the realization of significant value to society.
  – Senior Member or IEEE Life Senior grade at the time the nomination is submitted and shall have been a member in good standing in any grade for a period of five years or more preceding 1 January of the year of elevation.
  – self-nominations shall not be permitted.

• IEEE Fellow class of 2022:
  – Mauro Conti, University of Padua, Italy, for contributions to communications network security
  – Xiaoming Fu, University of Goettingen, Germany, for contributions to resource management in edge computing and networking
6. Outreach
Call for Symposium Chairs and Nominations

IEEE GLOBECOM 2023
Kuala Lumpur, Malaysia, December 4-8, 2023
Mohamed Faten Zhani @ Communications QoS, Reliability and Modelling Symposium

IEEE ICC 2024
Denver, Colorado, US, June 9-13, 2024
nominations for Symposium/Track Co-Chairs due May 6, 2022
“...any candidate that has chaired, or has been selected to chair, 3 symposia in the 10 most recent ICC/GC conferences (i.e., from GLOBECOM 2018 through ICC 2023) may not be selected.”
7. IEEE Distinguished Lecturer Program
Each TC is encouraged to nominate up to 4 DLs.

- 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.
- DLs appointed to a term of **two years**, can be appointed more than once, and can continue to serve for an additional two-year term at the discretion of the Selection Committee.
- DLs can be nominated or self-nominated.
- A nominee may be nominated by either a person or a TC.
- Nominators must be IEEE ComSoc members and IEEE Senior Member or higher.
- Nominations are **due July through 30 September 2022**.
- Selection announced by December.

[https://www.comsoc.org/mebybership/distinguished-lecturers](https://www.comsoc.org/mebybership/distinguished-lecturers)
8. ComSoc Student Competition
Communication Technology Changing the World competition recognizes (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 human needs.

- Open to graduate and undergraduate students, who are members of the IEEE Communications Society.
- The First Prize consists of $2000, winner(s) invited to receive it at IEEE GLOBECOM
- The deadline for submissions is each year mid-August
- The IEEE ComSoc Student Competition has been a great success since its first edition in 2013

Toufik Ahmed, Bordeaux INP, France (tad@labri.fr) CNOM representative at the ComSoc Student Competition

https://www.comsoc.org/membership/ieee-comsoc-student-competition
9. Opportunities for Young Researchers
CNOM & IFIP WG 6.6 strive to create more opportunities for young researchers to thrive

- Doctoral Symposium (1st edition in NOMS 2022)
  - Students in the early or mid stage of their PhD
  - Organized by Maria Torres Vega, Shihabur Rahman Chowdhury and Daphne Tuncer
- Mentorship program (to come)
- Competitions and challenges (to come)

Contact CNOM / IFIP WG 6.6 officers for more details
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