Agenda

- Call to order
- Chair’s Welcome, and Member Introductions
- Approval of minutes for meetings ICC 2020
- Updates on website and newsletter
- Elections
- Report on SIG activities
- Report on liaisons
- Report on member activities
- TC-involved journal/magazine publications
- TC-endorsed conferences
- Other business
Call to Order

2~3 Minutes

- Kindly state your name, affiliation and email in the chat
  - e.g., First Last, Good University, first.last@gooduniversity.edu
Chair’s Welcome, and Member Introductions

- **Mission**
  
  “The mission of this committee is to advance the state of the art in communications software and its various aspects and applications. It serves as the major forum for discussion among communications software professionals in both of the communications and computer industries.”

- More than 170 members in the mailing list

- Executives for the current term (2019-2021)
  - **Chair** Adlen Ksentini
  - **Vice-Chair** Abdellatif Kobbane
  - **Secretary** Abd-Elhamid M. Taha
ICC 2020 Meeting Minutes

- Minutes posted and email sent to TC on August 22, 2020
- Resent with announcement of this agenda on Dec 5, 2020
Update on Website

Editor: Abd-Elhamid M. Taha

- Website maintained and with all TC news and updates posted (minutes, agendas, symposium information, …)
- Open for suggestion on usability and ease of access
eLetter – Fall 2020
Moayad Aloqaily and Aiman Erbad

- Comes in a new theme,
- Content
  - About
  - Links
  - Awards/Distinctions
  - Highly Cited Researcher
    - Top 2% in the World
    - Web of Science
  - Best Paper Awards, Popular Articles, Editorial Appointment, Patents
  - Ongoing Research Projects
  - Past Events
  - Upcoming Events: Conferences, Workshops, Special Issues
  - Best Reader
  - COVID-19 Update
eLetter – Fall 2020

- Upcoming events
  - Conferences and Workshops
    - IEEE IWCMC,
    - IEEE IM Workshops
      - ITAVT, DISSECT
    - ICC Workshops
      - Applications of Affective Sensing in Communication Networks
      - Communication, Computing, and Networking in Cyber-Physical Systems
    - Securing Next-Generation Connected Healthcare Systems using Futuristic Technologies
  - Special Issues
    - 5G and Beyond towards Enhancing Our Future, mdpi
    - AI-powered IoT for Intelligent Systems and Smart Applications, Frontiers in Communications and Networks
    - Empowering Sustainable Energy Infrastructures via AI-Assisted Wireless Communications, IEEE Wireless Communications Magazine
    - Ubiquitous IoT with integrated Space, Air, Ground, and Ocean Networks, IEEE Networks Magazine
The TC officers organized the election for the secretary position
- P&P rules: Secretary -> Vice-chair, Vice-chair -> Chair

A nomination committee has been constituted:
- Chair: Prof. Hacène Fouchal (former chair of the TC, University of Reims)
- Members: Pr. Hossam Hassanein (Queen’s University), Prof. Cheng Li (Memorial University), Jalel Ben Othman (University of Paris 13)

The committee received four nominations: three accepted and one rejected (non active member)
- Two candidates remain: Sudip Misra (IIT-Kharagpur), Hassine Moungla, (University of Paris)

All the information were made available on the TC website
- List and statement of the candidates, the list of active members

Active members received an invitation to vote using the tool Balotilo (https://www.balotilo.org/)
- Anonymous vote
- Stefano Galli observer
Special Interest Groups (SIGs)

- The VP on Technical Committee confirmed the need that each TC has SIGs.
- More precisely, TCB P&Ps states “Special Interest Groups (SIGs) help the TC foster the scientific and technological development in topical emerging technologies within the scope of the TC. SIGs may be created to promote activities in well-established technologies.”
CommSoft TC SIGs

Coordinator – Marwane Ayaida

- Special Interest Group on “ML and AI for Networking”
  - Coordinator: Dr. Melike Erol-Kantarci (Melike.erolkantarci@uottawa.ca)

- Special Interest Group on “Communication software for Vehicular AdHoc Networks”
  - Coordinator: Prof. Hacene Fouchal (Hacene.Fouchal@univ-reims.fr)

- Special Interest Group on “NFV and SDN technologies”
  - Coordinator: Prof. Sudip Misra (smisra@sit.iitkgp.ernet.in)

- Special Interest Group on “Security in Software Communication”
  - Coordinator: Dr. Éric Renault (eric.renault@esiee.fr)

- Special Interest Group on “Big Data and Communication software”
  - Coordinator: Dr. Hassine Moungla (hassine.moungla@parisdescartes.fr)

- Special Interest Group on “Performances Evaluation”
  - Coordinator: Dr. Abdellatif Kobbane (abdellatif.kobbane@um5.ac.ma)

- Special Interest Group on “Blockchains and Applications”
  - Coordinator: Dr. Moayad Al-Oqaily (malogaily@xanalytics.ca)
SIG on ML and AI for Networking

Head: Melike Erol-Kantarci

- Canada Research Chair in AI-enabled Wireless Networks and Associate Professor
- University of Ottawa, Canada
- melike.erolkantarci@uottawa.ca
Scope and objectives

Our primary focus:
  • AI-enabled communications software

Topics
  • Machine learning algorithms for wireless networks
  • Machine learning algorithms for RAN software
  • Machine learning algorithms for core software
  • Machine learning algorithms for SDN
  • AI-enabled slicing
  • AI-enabled MAC, routing and transport
Member activities

• Member platform
  • LinkedIn group - SIG on ML and AI for Networking
  • 19 members from the CommSoft community

• Joint activities with other TCs and SIGs
  • Special issue organizations
  • Cross members in many other TCs
Seminar and outreach activities

M. Erol-Kantarci delivered 2 keynotes on AI-enabled Wireless Networks
- IFIP International Conference on Network and Service Management (CNSM), November 2020.

M. Erol-Kantarci delivered 2 plenary talks on AI-enabled Transactive Energy Systems
Journal special issues

- IEEE Network Magazine, special issue on “AI and 6G Convergence: an Energy-efficiency Perspective” is accepting submissions
  - Deadline: 15 April 2021
  - Co-editors: Y. Zhang, M. Erol-Kantarci, W. Sun, Y. Dai, J. Hoydis, M. C. Gursoy,

- IEEE Transactions on Green Communications and Networking, special issue on “Communications and Computing for Green Industrial IoT and Smart Grids” is accepting submissions
  - Deadline: March 1st, 2021
  - Co-editors: M. Erol-Kantarci, G. Alexandropoulos, P. Chong, Y. Zhang, A. Tonello

- MDPI Sensors, Special Issue on "Selected Papers from the IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks, CAMAD 2020“
  - Co-editors: S. Giordano, L. Foschini, R. Giuseppe Garroppo, M. Erol Kantarci, G. Di Modica
Conference and editorial activities

• Globecom 2020, CQRM Track Chair
• CAMAD 2020, TPC Chair
• CCNC 2021, Track Chair
• IEEE Transactions on Cognitive Communications and Networking
  ▸ IEEE Internet of Things Journal
  ▸ IEEE Communications Letters
  ▸ IEEE Networking Letters
  ▸ IEEE Vehicular Technology Magazine
SIG on Vehicular AdHoc Networks activities

*Head: Hacene Fouchal*

- **Keynote speaker on Challenges on Intelligent Vehicles**
  - CVNET’20 – Workshop on Cooperative vehicular networking within **12th EAI International Conference on Ad Hoc Networks**, November 2020

- **Co-Editor**
SIG on Vehicular AdHoc Networks activities

*Head: Hacene Fouchal*

- Special Issue on **Internet of Vehicles in Smart City** in Springer journal Annals of Telecommunications (G. Editor : Lyes Khoukhi)

- Special Issue on **Connected Vehicles meet Big Data technologies: Recent Advances and Future Trends** in Elsevier Journal of Parallel and Distributed Computing (G.Editors : A. Mostefaoui, G. Min and P. Müeller)
SIG on Security
Head: Éric Renault

- SIG on Security leader since July 2020 during the last IEEE ICC conference

- Goal (mainly):
  - Report activity of TC CommSoft members in conferences/projects/events dedicated to Security
  - Promote upcoming conferences on Security
  - Promote calls for grants on Security and help TC CommSoft members to cooperate
  - Important event on security

- Any information/help is welcome
Past event:
- 6th MSPN in 2020 (virtual): 1 keynote + 2 sessions on Security

Upcoming events:
- Campus Cyber: Next largest Security center in France (in Europe?), to open late 2021
- 7th MSPN in 2021 (to be held in Paris? early June): Submission deadline in March 2021
SIG on NFV and SDN technologies

Head: Sudip Misra

Short courses/Invited talks/Tutorials:
- Invited Panel Speaker, “ICT for Smart Cities”, IEEE ANTS 2020 - Sudip Misra

Awards/Distinctions/Memberships:
- Prof. Sudip Misra received Fellowship of Indian National Academy of Engineering (FNAE) and Distinguished Lecturer of IEEE ComSoc (2020-21)
- Prof. Sudip Misra received the prestigious IEEE TCSC Middle Career Researcher (MCR) award, 2020.
- Prof. Abdulhalim Dandoush is an active Member of ONOS Security and performance analysis Brigade, Open Networking Foundation (ONF)
SIG on NFV and SDN technologies

Head: Sudip Misra

Ongoing/Recently awarded projects:


Significant publications:

SIG on NFV and SDN technologies

Head: Sudip Misra

Significant publications:

- Planning on proposing several Special Issues on the emergence of SDN/NFV in modern networking, using SDN/NFV to combat COVID-19 in reputed journals.

Development of Software/Libraries:

- Prof. Sami Souihi developed a new software platform (rl-sr) enabling service-centric segment routing application for encrypted data built on the top of SDN ONOS controller.
  GitHub - https://github.com/vanvantong/rl-sr
SIG on Big Data and Communication software

Coordinator – Hassine Mouniga

- Elsevier Frontiers journal, in the Communications and Networks area
  - Special Issue on “Communication software big data analytic beyond 5G and 6G,”. Expected for April 2021
- Elsevier Future Generation Computer Systems journal
  - Special Issue on “Information-Centric Network enabler Communication for Internet of Things and communication software”. October 2020
- Appointed as an guest editor for IEEE JSAC Series on Network Softwarization & Enablers in 2020
- IEEE WINCOM 2020
  - Publication chair
- IEEE HPSR 2021
  - TPC chair
SIG on Big Data and Communication software

Coordinator – Hassine Moungla

- Workshops and tracks around Big Data, AI, IoT, Vehicular Communications and Communication software will be organized in junction with the IEEE High performance routing (IEEE HPR 2021).

- Symposium Chair for IEEE GLOBECOM 2021, Communication Software, Services and Multimedia Applications
SIG on Blockchains and Applications  
*Head: Coordinator : Moayad Al-Oqaily*

- **Conference**

- **Special Issue**
  - [Computer Networks](https://www.sciencedirect.com/journal/computer-networks), Elsevier, **IF: 3.111**
    - Federated Learning and Blockchain Supported Smart Networking in Beyond 5G (B5G) Wireless Communication
  - JONS, Springer

- **SIG Track**
  - [Cluster Computing](https://www.springer.com/journal/234), Springer, **IF: 3.458**
    - Blockchains and Applications – Available in EM

- **Talk on BC Series**
  - Blockchain for Sustainable Energy Management
    - *Ad Hoc Series, IEEE ICCSE 2021, Lancaster, UK*
SIG on Performances Evaluation

*Head: Abdellatif Kobbane*

- ICC 2020
  - Adhoc Symposium TPC Chair
- WINCOM 2020 Conference
  - General Co-Chair
- AdhocNet
  - TPC-C-chair
- UNET 2021 Conference
  - Workshops chair
TC Endorsed Conferences

- ICC’21, Montreal
  - Adlen Ksentini for CSM symposium (confirmed)

- GC’21, Madrid
  - Hassine Moungla for CSM symposium (confirmed)

- ICC’22, Seoul
  - Marwan Ayaida for CSM symposium (confirmed)

- GC’22, Rio de Janeiro
  - Sameh Sorour for CSM symposium (nominated)
  - Ayman Merwan for NGNI (nominated)
TC Endorsed Conferences

- Communication Software, and Multimedia symposium (CSSMA), ICC 2021
  - Submissions: 69
  - Accepted papers – pending
  - Acceptance rate – pending
CSSMA Considerations

- Submissions trend ICC 17 onward ...

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<tr>
<th>CSSMA@?</th>
<th>ICC 17</th>
<th>GC 17</th>
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<td>82</td>
<td>121</td>
<td>87</td>
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<td>69</td>
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- We need to put more efforts to increase the submission number, otherwise the symposium will be downgraded to a special track.
TC Endorsed Conferences

- CommSoft TC is seeking **highly motivated** candidates to be nominated as symposium chairs for CSM and NGNI
- The TC has one chair for CSM, and may nominate one chair for the NGNI symposium
- Current open calls for nominations
  - ICC 23 (Rome, Italy)
Open Call for Participation

Things to consider ...

› Contribute to the e-Letter
› Champion or contribute to an SI
› Be involved in SIG activities
› Contribute to standardization activities
› Be a liaison
› Be a distinguished lecture
› Advocate and share CommSoft activities
› Publicize TC-sponsored venues
Other Business
Conclusion

- Good luck for the new officers (Pending approval) (2021 – 2022)
  - Chair: Abdellatif Kobbane
  - Vice-chair: Abdelhamid Taha
  - Secretary: Hassine Moungla