

Technical Committee on Information Infrastructure and Networking (TCIIN)

Online meeting

(@ICC 2023)

Monday, April 19, 2023, (4pm - 5:30pm CET)

The following meeting agenda was proposed and accepted.

1. Welcome and Introduction
2. Approval of the agenda
3. Keynote 1 - “Infrastructure challenges to bring sustainable precision agriculture: use case of dairy farming”- Prof. Abdoulaye Baniré Diallo (computer science dept, UQAM, Canada)
4. Keynote 2: “Self-Sustaining Multiple Access with Continual Deep Reinforcement Learning for Dynamic Metaverse Applications”, Dr. Masoud Shokrnezhad, Oulu University, Finland.
5. Review / Approval of minutes of Globecom 2022 TCIIN meeting
6. Conference updates
7. Awards
8. Special Interest Groups (SIGs)
9. Report on standards
10. Website & mailing list
11. Any other business
12. Next TCIIN Meeting

1. Welcome and Introduction

Prof. Nadjib Ait Saadi (Chair) welcomed attendees and opened the TCIIN meeting. All participants introduced themselves. The list of the attendees is given below:

- Nadjib Ait Saadi (TCIIN Chair) (nadjib.ait-saadi@uvsq.fr)
- Selma Boumerdassi (TCIIN vice-Chair) (selma.boumerdassi@cnam.fr)
- Halima Elbiaze (TCIIN Secretary and preparing the meeting minutes) (elbiaze.halima@uqam.ca)
- Tarik Taleb, Oulu Univ., Finland
- Moez Esseghir, University of Technology of Troyes, France
- Eirini Eleni Tsiropoulou, University of New Mexico, eirini@unm.edu
- Hossam AFIFI, Telecom SudParis France
- Ahmed Refaey Hussein, University of Guelph, Canada ahmed.refaey@ieee.org
- Yeong Min JANG, Kookmin University, yjang@kookmin.ac.kr
- Hassine MOUNGLA, Université Paris Cité, France. Hassine.moungla@u-paris.fr

- Samira kamali, Oulu univ, Finland, Samira.KamaliPoorazad@oulu.fi
- Moez Esseghir, University of Technology of Troyes, moez.esseghir@utt.fr
- Angelos Michalas, University of Western Macedonia, Greece, amichalas@uowm.gr
- Abdallah Shami, Abdallah.Shami@uwo.ca, Western University, Canada
- Mohammad Farhoudi, University of Oulu, Finland
- Hossam Afifi Telecom SudParis France hossam.afifi@telecom-sudparis.eu
- Sondes Kallel, University of Versailles Paris Saclay, France. Sondes.khemiri-kallel@uvsq.fr
- Bigomokero Antoine Bagula, University of the Western Cape, South Africa, emails: {abagula@uwc.ac.za, antoine.bagula@gmail.com, bagula@gmail.com}
- Qize Guo, University of Oulu, Finland, qize.guo@oulu.fi
- Christos Hitiris, University of Western Macedonia, dece00100@uowm.gr
- Andson Balieiro, Federal University of Pernambuco, Brazil (amb4@cin.ufpe.br)
- Zhao Ming, Oulu Univ. Finland, zhao.ming@oulu.fi
- Eric Renault, ESIEE Paris -- Univ. Gustave Eiffel, France, eric.renault@esiee.fr
- Yacine Ghamri-Doudane, La Rochelle University, France - yacine.ghamri@univ-lr.fr
- Kapal Dev, Munster Technological University, Ireland. Kapal.dev@ieee.org
- Ilhem Fajjari, Orange, ilhem.fajjari@orange.com
- Abdellatif Kobbane ENSIAS, Mohammed V University in Rabat Morocco, abdellatif.kobbane@ensias.um5.ac.ma
- RR Venkatesha Prasad; Delft University of [Technology-tudelft.nl](http://Technology.tudelft.nl) ; rvprasad@gmail.com
- Abdelwahab Boualouache, University of Luxembourg (abdelwahab.boualouache@uni.lu)
- Apostolos Xenakis, University of Thessaly, GR, axenakis@uth.gr
- Loubna Mekouar, Assistant Professor, Mohammed VI Polytechnic University, Morocco, Loubna.Mekouar@um6p.ma

2. Approval of the agenda

The agenda the meeting was presented by Prof. Nadjib Ait-Saadi and approved by all the participants.

3. Keynote 1

“Infrastructure challenges to bring sustainable precision agriculture: use case of dairy farming”- Prof. Abdoulaye Baniré Diallo (computer science dept, UQAM, Canada).

4. Keynote 2

“Self-Sustaining Multiple Access with Continual Deep Reinforcement Learning for Dynamic Metaverse Applications”, Dr. Masoud Shokrnezhad, Oulu University, Finland.

5. Review / Approval of minutes of GLOBECOM 2022 TCIIN Meeting

The minutes of the last meeting (during IEEE Globecom 2022 conference) were presented by Prof. Nadjib Ait-Saadi and approved by all the participants.

Prof. Nadjib Ait-Saadi presents TCIIN Charter and reminds the objectives of IIN. He also presents the focus of TCIIN:

- Advancing humanity through technology by utilization of supportive technologies to enable global networking.
- Narrowing of the “Digital Divide”
- Enabling ICT and infrastructure for development (focusing on underserved areas)

In addition, Prof. Ait-Saadi reminds the current structure of TCIIN:

- **Chair** → Prof. Nadjib Ait-Saadi - University Paris-Saclay / UVSQ Campus, France.
- **Vice-Chair** → Prof. Selma Boumerdassi, Conservatoire National des Arts et Metiers (CNAM), France.
- **Secretary** → Prof. Halima Elbiaze – University of Quebec at Montreal, Canada.
- **Standard Liaison** → Prof. Periklis Chatzimisios Alexander - Technological Educational Institute of Thessaloniki, Greece.
- **Student Competition Program** → Dr. Aggeliki Sgora, Ionian University, Greece.

Prof. Nadjib Ait-Saadi remind that TCIIN meetings hold meetings twice per year at ICC and GLOBECOM. To become a member by joining the mailing list: <http://iin.committees.comsoc.org/ mailing-list/>

Prof. Nadjib Ait-Saadi explains the IEEE ComSoc policies to be **active** member in each TC:

- Attend 2 of the past 5 meetings and
- Have contributed substantially to the TC activities

6. Conference updates

- Sponsorship of GC and ICC symposia

- **Next Generation Networking and Internet Symposium (NGNI)**
- IoT and Sensor Networks Symposium
- SAC Cloud Computing, Networking and Storage
- New objective – IEE Globecom 2024
 - SAC: Quantum Communications & Information Technology
 - Symposium: Communication & Information System Security
- TCIIN Flagship conference: Global Information Infrastructure Symposium (GIIS)
 - TCIIN event: GIIS 2023
 - Date: 1 – 3 November 2023
 - Location: Dubai – UAE -- Canadian University of Dubai (CUD)
 - <https://www.cud.ac.ae>
 - General co-chairs
 - Prof. Adel Ben Mnaouer (CUD / Dubai - UAE)
 - Prof Yacine GHAMRI-DOUDANE (La Rochelle / France)
 - Prof. Nadjib Aitsaadi (UVSQ Paris-Sacaly / France)
 - TPC co-chairs
 - Prof. Halima Elbiaze (UQAM/ Canada)
 - Dr. Bassem Ouni, (Technology Innovation Institute / Abu Dhabi - UAE)
 - Prof. Burkhard Stiller (University of Zurich and ETH Zurich, Switzerland)
 - <http://www.giis2023.org>
- TCIIN Endorsement of Conferences and Workshops
 - WMNC'22 - October 2022 – Tunisia
 - Wireless and Mobile Networking Conference
 - <https://wmnc.dnac.org/2022/>
 - ICAIIC'23 – February 2023 – Indonesia
 - International Conference on Artificial Intelligence in Information and Communication
 - http://icaaic.org/?page_id=24
 - CIoT – March 2023 – Lisbon, Portugal
 - Cloud and Internet of Things
 - <https://ciot.dnac.org>
 - IFIP Networking – June 2023 – Barcelona, Spain
 - <https://networking.ifip.org/2023/>
 - ICUNF – July 2023 – Paris/France

- International Conference on Ubiquitous and Future Networks
 - <https://icufn.org>
- PEMWN – September 2023 – Germany
 - International Conference on Performance Evaluation and Modeling in Wired and Wireless Networks
 - <https://sites.google.com/view/pemwn2023?authuser=1>
- In GLOBECOM 2022 (Rio De Janeiro, Brazil)

TCIIN nominated the following members to be co-chairs:

 - **Prof. Edmundo Madeira**--SAC Symposium: Cloud Computing, Networking and Storage
 - **Prof. Nidal Naser**-- Symposium on IoT & Sensor Networks
 - **Prof. Selma Boumerdassi**-- Symposium on Next-Generation Networking and Internet
- In ICC 2023 (Roma, Italy)

TCIIN nominated the following members to be co-chairs:

 - **Prof. Nadjib Aitsaadi** --SAC Symposium: Cloud Computing, Networking and Storage (Submitted Articles: 70)
 - **Prof. R Venkatesha Prasad** -- Symposium on IoT & Sensor Networks (Submitted Articles: 262)
 - **Prof. Periklis Chatzimisios** -- Symposium on Next-Generation Networking and Internet (Submitted Articles: 188)
- In GLOBECOM 2023 (Kuala Lumpur, Malaysia)

TCIIN nominated the following members to be co-chairs:

 - **Prof. Aggeliki sgora** -- Symposium on Next-Generation Networking and Internet
 - **Prof. Ilhem Fajjari** --SAC Symposium: Cloud Computing, Networking and Storage
 - **Prof. Selma Boumerdassi** -- Symposium on IoT & Sensor Networks
- In ICC 2024 (Denver, Colorado, USA)

TCIIN **proposal**

 - *Prof. Halima Elbiaze, UQAM University, Canada, Symposium on Next-Generation Networking and Internet (approved)*
- In Globecom 2024, Cap Town, South Africa

TCIIN **proposal** (*under approval*):

 - **Prof. Ilhem Fajjari** (Orange Innovation, France) -- Symposium on Next-Generation Networking and Internet
 - **Prof. Mohamed-Faten zhani** (ETS Montreal, Canada) -- Symposium on

IoT & Sensor Networks

- **Prof. Nadjib Aitsaadi** (UVSQ Paris-Saclay, France) -- Symposium on Communication & Information System Security
- **Prog Apostolos Xenakis** (University of Thessaly, Greece) --SAC: Quantum Communications & Information Technology

7. Awards

- TCIIN Outstanding Service Award
- TCIIN Technical Achievement Award

IEEE ComSoc TCIIN is running the application process for the **Technical Achievement Award**. We look forward to your nominations to the TCIIN Technical Achievement Award.

A nomination application (as a single PDF file) should be transmitted to [<yacine.ghamri@univ-lr.fr>](mailto:yacine.ghamri@univ-lr.fr) and should contain the following details:

- *Professional Employment Affiliations*: List the nominee's current professional affiliations and titles.
- *Citation*: Give a brief citation precisely stating the most salient reason(s) why the nominee is qualified for the award.
- *Technical Contributions*: Describe the nominee's technical achievements as well as the significance and impact. (Max 2-page length)

Important Dates:

Application deadline: June 30, 2023

Results notification: July 31, 2023

TCIIN Award sub-committee:

- Prof. Yacine GHAMRI-DOUDANE (La Rochelle Université, France) – Chair of Award sub-committee
 - Prof. Raouf Boutaba (University of Waterloo, Canada)
 - Dr. Cedric Westphal (Futurewei, USA).
- Based on IEEE ComSoc P&P – Award Subcommittee is mandatory
 - <https://tc.boards.comsoc.org/wp-content/uploads/sites/197/2022/06/TC-Pages-from-ComSoc-PandPs-Oct2020.pdf>
 - Next Steps
 - Build the Awards subcommittee -> January 2023
 - Spread the call of TCIIN's awards → March 2023
 - Application → April 2023
 - Result --> TCIIN Meeting @ICC 2023

8. Special Interest Groups (SIGs)

- SIG generally opened on a very recent subject related to TCIIN about which members are willing to report.
- Suggestions on new Special Interest Groups (SIGs) are welcome
- Report of the Cloud for Telco SIG

- SIG on Cloud for Telco (Chair Dr. Ilhem FAJJARI (Orange Labs, France))
- Industrial Orange Workshop → 2021
- ComSoc TCIIN “Cloud for Telco” Conference/Workshop → 2023/2024 (second semester). Location: Paris / France – Orange Labs building (orange Garden)
- Report of the Quantum Internet SIG
 - Leader: Apostolos Xenakis (University of Thessaly, Greece) axenakis@uth.gr
 - Quantum Computing Group at ds.uth.gr
 - Member of: <http://qgreece.uth.gr/>
 - @Globecom’24 → SAC: QUANTUM COMMUNICATIONS & INFORMATION TECHNOLOGY
- SIG on Solutions for the Digital Divide
 - Potential Leader: Aggeliki Sgora (Ionian University, Greece) asgora@ionio.gr

9. Report on standards

- **5G Standards**

- **IEEE Standards Summit**
 - Date: Wednesday, November 30, 2022
 - Format: One day event collocated with the IEEE Conference on Standards for Communications and Networking
 - <https://cscn2022.ieee-cscn.org/program/>
- **IEEE Standards Summit**
 - Date: Wednesday, December 15, 2021
 - Format: One day event collocated with the IEEE Conference on Standards for Communications and Networking
 - <https://cscn2021.ieee-cscn.org>
- **IEEE 5G and IoT Summit**
 - Date: Tuesday, February 15, 2022
 - Format: One day event devoted to 5G and IoT jointly organized by 5 IEEE Communication Chapters

- **Report from TCIIN Standard Liaison**

- **IEEE Conference on Standards for Communications and Networking (CSCN)**, November 28-30, 2022 - Thessaloniki, Greece
<https://cscn2022.ieee-cscn.org/committee/>
- **IEEE Conference on Standards for Communications and Networking (CSCN)**, December 15-17, 2021 (virtual) Thessaloniki, Greece
<http://cscn2021.ieee-cscn.org/>
- Free training on “Standards Working Group Chair Fundamentals” by IEEE Standards Association
<https://standards.ieee.org/about/training/index.html>

- IEEE Communications Standards Magazine
<http://www.comsoc.org/comstandardsmag>
 - If you want to propose a Feature Topic, please contact Periklis Chatzimisios (pchatzimisios@ieee.org)
- **i-YES (Young Engineers and Scientists) Education & Training Program**
 - An initiative of the IEEE ComSoc Education and Services Board (ESB). The program of i-YES includes Keynote Speeches and Inspiring Talks from well-known academics and researchers, Panels, Hands-on sessions as well as time for Q&A.
 - **@ICC'22**
 - <https://icc2022.ieee-icc.org/young-engineers-scientists-i-yes-education-track>
 - ORGANIZERS:
 - **Periklis Chatzimisios**, International Hellenic University, Greece & University of New Mexico, USA
 - **Stefano Giordano**, University of Pisa, Italy

10. Website & mailing list

- TC website: <http://iin.committees.comsoc.org/>
- New mailing list: tciin@comsoc.org
 - To post a message, you must **be a member AND confirm** your post.
 - Current membership record: 810 members

11. Any other business

12. Next TCIIN Meeting

Next Meeting in Kuala Lumpur IEEE Globecom 2023