Newsletter of the Technical Committee on Information Infrastructure and Networks (TC IIN)

PREFACE

The IEEE ComSoc Technical Committee on Information Infrastructure and Networks (TC IIN) sponsors scientific activities consisting of an interrelated set of technical, policy, and social issues implicit in developing information infrastructures and supportive technologies to enable global networking. It sponsors papers, discussions, and standards and provides a forum for members to exchange ideas, techniques, and applications, and share experiences among researchers.

This newsletter has been established to foster collaborations and keep our members and the broader information infrastructure and networking community informed about achievements and developments in these areas. The newsletter serves as a medium for highlighting successful research projects and technical advancements. It invites authors of impactful research and forward-thinking professionals to share their insights and expertise, contributing updates and fostering an environment of shared knowledge and innovation within the TC.

TC IIN OFFICERS

Chair: Selma BOUMERDASSI
CNAM, France

Vice Chair: Halima ELBIAZE
UQAM, Canada

Secretary: Ahmed Refaey HUSSEIN
University of Guelph, Canada

NEWSLETTER EDITORS

Editor-in-Chief: Éric RENAULT
ESIEE Paris, France

Technical Editor: Nour El-Houda YELLAS
Télécom SudParis, France

MEMBERSHIP

TC IIN is an open Technical Committee of the Communication Society of the IEEE.

To become a **member of the TC**, one need to register to the TC mailing list. Send an email to `tciin@comsoc.org`.

To become an **active member of the TC**, one is required to attend on site or online at least two of the last five TC meetings. Promotion to active member is automatic. Among other benefits, being an active member entails the right to participate in voting, being eligible for TC officer positions or being nominated as a Symposium Chair at IEEE ICC or IEEE Globecom.

TC IIN ACTIVITIES

The technical Committee on Information Infrastructure and Networking (TC IIN) is dedicated to promote knowledge exchange through TC meetings, engaging keynotes and interdisciplinary webinars. These webinars address current trends in the field of information and infrastructure networks by bringing experts who share their deep knowledge and practical experience.

Regular meetings

TC IIN meetings are organized twice a year and are usually in conjuction with IEEE ICC and IEEE Globecom conferences.

The last meeting was held in hybrid mode at IEEE Globecom 2024 on December 10, 2024. The next meeting will be hold in remote mode before IEEE ICC 2025. The date of this TC meeting will be announced later.

Keynotes

Keynote presentations are designed to give high-level perspectives on emerging trends, challenges and innovations.

Two keynotes were presented on site and accessible online via Zoom on 6 June 2024 during the TC IIN meeting held at IEEE ICC 2024, Denver, CO, USA:

- **Advanced Network Management through Graph Neural Networks: Applications and Insights** by Yassine HADJADJ-AOUL, Irisa/Inria, University of Rennes, France.

- **Artificial Intelligence for Closed-loop Automation in Future Networks** by Nour El-Houda YELLAS, Orange Labs, France.

One keynote was presented on site and accessible online via Zoom on 10 December 2024 during the TC IIN meeting held at IEEE Globecom 2024, Cape Town, South Africa:

- **Communication optimisation for LEO satellite systems** by Pengwenlong GU, ROC Team, CNAM, France.

Webinars

The first series of webinars was held online on 15 November 2024, and hosted two presentations:

- **An on-board multi-interface gateway for EV data integration and processing in the OPEVA project** by Gianluigi FERRARI, IoT Lab, Dept. of Engineering and Architecture, University of Parma, Italy.

- **On the Integration of Electric Vehicles on Energy Communities** by Luis Lino FERREIRA, ISEP, Portugal.

The second series of webinars will take place in February 2025. More details will soon be sent on the TC IIN mailing list.

CALL FOR NOMINATIONS FOR THE TC IIN TECHNICAL ACHIEVEMENT AWARD

The award will recognize a member of TC IIN of the IEEE Communications Society who has been involved with TC IIN, has done outstanding work and exceptional achievements in information infrastructure and networking, and has achieved a high degree of visibility in the field.

The award committee is composed of:

Chair: Sidi Mohammed SENOUCI
Univ. of Burgundy, France
`sidi-mohammed.senouci@u-bourgogne.fr`

Members: Mohsen GUIZANI
MBZUAI, UAE
`mohsen.guizani@mbzuai.ac.ae`

Abdallah SHAMI
Western Univ., Canada
`abdallah.shami@uwo.ca`

Nominations and supporting material (CV and technical achievements) must be sent by email to all members of the award committee by **17 January 2025** with subject **TC IIN Technical Achievement Award 2024**.

The award winner will be announced at the next TC IIN meeting.

YOUR FEEDBACK IS IMPORTANT

To continuously improve the effectiveness of TC IIN activities, we are preparing a feedback form designed to gather insights from all the TC IIN committee members. This form aims to allow us to highlight areas for improvement and suggest new ideas to enhance the TC committee's overall performance.

HIGHLIGHT ON TC IIN MEMBER ACTIVITIES

Some TC IIN members have been highly active through a diverse range of impactful activities.

Conference Organizations

- MLN 2025, Reims, France, 27-29 November 2024. General Chairs are Cyril RABAT, Lab-I*, URCA, France, and Éric RENAULT, ESIEE Paris, France. TPC Chairs are Selma BOUMERDASSI, CNAM, France, and Hacène FOUCHAL, Lab-I*, URCA, France.

Keynotes and Webinar Speakers Engagements

- **Future of Cryptocurrency in Pakistan** by Mubashir Husain REHMANI, Munster Technological University (MTU), Ireland. Keynote delivered at the 5th International Conference on Innovative Computing (ICIC 2024), the 3rd International Conference on Emerging Trends in Smart Technologies (ICETST 2024) and the 4th International Conference on Innovations in Computer Science (ICONICS 2024).

Publications and Academic outputs

- **Cognitive Radio-based Internet of Vehicles: Architectures, Applications, and Open Issues** by Mubashir Husain REHMANI, Munster Technological University (MTU), Ireland. CRC Press, Routledge USA.

UPCOMING EVENTS

- GIIS 2025, Dubai, UAE, 25-27 February 2025.
  → `https://giis2025.giis-conference.org/`
- IEEE ICC 2025, Montreal, Canada, 8–12 June 2025.
  → `https://icc2025.ieee-icc.org/`

CALL FOR PAPERS

- IEEE NetSoft 2025, Budapest, Hungary, 23–27 June 2025. Deadline: **7 January 2025**.
  → `https://netsoft2025.ieee-netsoft.org/`
- IEEE PIMRC 2025, Istanbul, Turkiye, 1-4 September 2025. Deadline: **16 February 2025**.
  → `https://pimrc2025.ieee-pimrc.org/`
- WIN 2025, Budapest, Hungary, 23 or 27 June 2025. Deadline: **14 March 2025**.
  → `https://www.adda-association.org/win-2025/`
- IEEE VTC2025-Fall, Chengdu, China, October 2025. Deadline: **15 March 2025**.
  → `https://vtsociety.org/event/conference/2025-ieee-102nd-vehicular-technology-conference`

MISCELLANEOUS

Past meeting minutes

The minutes of each TC IIN meeting are easily accessible on the TC website. This allows the members to stay informed about the discussions. This initiative reflects our commitment to fostering an open and collaborative environment within the technical committee.

→ `https://iin.committees.comsoc.org/meetings-minutes/`

LAST WORDS FROM THE NEWSLETTER EDITORS

This newsletter is intended to be yours. It aims to highlight past and future activities of the TC, the members of the TC, whether they are active or not.

You are chairing a conference, a symposium or a workshop, you are a giving a webinar or a keynote at a conference, you have written a book, or you are willing to distribute a Call for Papers on a subject related to TC IIN, we will be happy to relay these informations on this newsletter.

Feel free to send a message to `houda.yellas@gmail.com` and `eric.renault@esiee.fr` with subject **TC IIN Newsletter**.