#### SmartCom 2025 Committees:

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- Prof. Osamu Takyu (Shinshu Univ.)

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- Dr. Victoria Gómez-Guillamón Buendía (TNO)
- Dr. Kentaro Ishizu (NICT)
- Prof. Mamiko Inamori (Tokai Univ.)

#### **TPC co-chairs**

- Dr. Sander Bronckers (TU/e)
- Prof. Kohei Ohno (Meiji Univ.)

#### Keynote session co-chair

- Dr. George Exarchakos (TU/e)
- Prof. Suguru Kameda (Hiroshima Univ.)

## Special session organizersDr. Arjan Droste (TU Delft)

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- Dr. Yanki Aslan (TU Delft)
- Dr. Salvador Mercader (ÉSA)
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- Prof. Koji Ishibashi (The Univ. of **Electro-Communications**)
- Prof. Satoshi Tsukamoto (Tohoku
- Dr. Takuto Arai (NTT)

#### Poster session co-chairs

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- Prof. Hideya So (Shonan Institute of Technology)
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#### Finance co-chairs

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- Dr. Luca Zappaterra (TU/e)Prof. Mai Ohta (Fukuoka Univ.)
- Prof. Jin Nakazato (The Univ. of

#### Patronage & exhibition co-chairs

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#### **Publication & publicity co-chairs**

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# SmartCom 2025

2025 International Workshop on Smart Wireless Communications June 4-6, 2025, Eindhoven University of Technology, The Netherlands



Photo by Bart van de Overbeeke Photography

Scope: SmartCom is the international workshop jointly organised by several IEICE Technical Committees and technical key players outside Japan. SmartCom 2025 is hosted in collaboration with Eindhoven University of Technology (TU/e), The Netherlands SmartCom 2025 covers not only with radio technology, spectrum management, wireless networks, communication theory and flexible hardware, but also with antennas and device technology. The organizing committee expects that the workshop also represents a great opportunity for networking and initiating cooperative research and joint proposals. The topics covered by SmartCom 2025

include, but are not limited to:

#### Dynamic spectrum access, sharing, and management

- Spectrum sensing and measurement
- MAC and networking protocols
- Dynamic spectrum access and sharing for IoT, 5G, and Beyond 5G systems
- Energy efficient technologies for
- Standards, regulatory policies
- Green cognitive radio

#### Heterogeneous wireless networks

- Ultra broadband small cell deployment
- C/U splitting, common pilot channel, mobility management Dynamic cell structuring, virtual
- cell, ghost cell, phantom cell Backhaul/fronthaul architecture, cloud-RAN, centralized-RAN
- Resource control and management in HetNets
- Traffic offloading in HetNets

### Wireless distributed network, MAC protocol, and network management

- Cross layer design for wireless
- networks
  Wireless sensor networks in IoT

- Wireless LAN and mesh networks
- High density wireless networks Wireless network virtualization and virtual network management
- Software defined networks
- Network controlled D2D communication

#### Wireless communication theory and its application

- · Network information theory
- Coding theory Physical-layer security
- Compressed sensing

#### Hardware architecture and implementations

- · Broadband and multiband antennas
- Multiband and multimode
- RF/analog circuits Reconfigurable baseband circuits
- Transceiver architecture for software defined radio, especially for higher frequency bands
- Implementation of testbeds and prototypes, especially for higher frequency bands
- Wireless equipment for smart radio, 5G, and Beyond 5G

#### Advanced wireless technologies

- Al in wireless communications and networks
- Non-terrestrial and hybrid satellite/terrestrial networks for Beyond 5G
- Aerial communications and networks for Beyond 5G
- Fundamental wireless technologies for Beyond 5G
- Local 5G networks
- Advances in mmWave and terahertz wireless communications
- Wireless network technologies based on wireless power transfer

#### Technical exhibitions

- Implementation, prototype, and wireless equipment for smart
- Applications and related works of wireless communications

Topics of Special Sessions: Sensing and Smart Cities, Low-Power and Efficient sub-THz Communications with Low-Resolution ADCs, Integrated Communications and Sensing, NTN and TN Collaboration Technology

**Important Dates:** 

Paper submission deadline Camera-ready paper submission deadline Participant registration deadline Registration fee payment deadline

10th April 2025 for Japanese Organization / 1st May 2025 for Non-Japanese Organization (Extended!)

12th May 2025 12th May 2025 12th May 2025

Registration of paper submission:

In SmartCom 2025, all regular papers will be presented in poster sessions. Note that papers will not be peer reviewed.

SmartCom 2025 Website: http://ieice-smartcom.info/ Contact Information: sr\_ac-smartcom2025-jp@mail.ieice.org

SmartCom 2025 is organized by IEICE Technical Committee on Smart Radio (SR), co-sponsored by IEICE Technical Committee on Radio Communication Systems (RCS), and jointly hosted by Eindhoven University of Technology, The Netherlands.