callforpaper.org

N/a May 12-15, 2025

CONFERENCE WEBSITE: https://dyspan2025.ieee-dyspan.org/

About the Conference

DySPAN 2025 Call for Papers

The IEEE International Symposium on Spectrum Innovation (DySPAN) is the leading international conference on radio spectrum technology and policy innovation, covering diverse issues related to spectrum management, sensing, access, sharing, coexistence, and utilization within current and emerging wireless technologies. Building on the success of DySPAN 2024, this year's edition of the conference will be held in London on May 12-15, 2025, with a main topic of spectrum innovation. The conference welcomes papers detailing research advances relating to technology and policy issues that pertain to all aspects of advanced spectrum technologies. With an ever-growing demand for more wireless capacity and increasingly pervasive wireless applications, high-efficiency spectrum technologies and management models are needed more than ever. As new technologies which operate at millimeter-wave (mmWave) and terahertz (THz) frequencies are becoming mainstream, spectrum innovation needs to address a variety of frequency bands and tackle challenges in managing the precious

Important Dates

MAY 12

CONFERENCE DATE

May 12-15, 2025

spectral resources. Likewise, spectrum allocation and assignment policies and techniques need to reflect an increased demand for local and private networks and the need to share with incumbent **services**. DySPAN’25 aims to bring together both industry, academia, and government stakeholders in a common forum for sharing experiences and accelerating the state-of-the-art in spectrum aspects related to wireless technologies in a multi-disciplinary manner.

Important Dates
Paper registration deadline November 27, 2024
Paper submission deadline December 1, 2024
Notification of acceptance February 3, 2025
Camera-ready submission and registration deadline March 14, 2025

Papers that cross technology and policy, are of particular interest.
Technical topics of interest to the conference include but are not limited to:
Spectrum access modelling and simulation
AI and ML in spectrum access and management
Spectrum access and management in mobile environments
Spectrum access and management for directional wireless systems
Spectrum access and management for the Internet-of-Things
Spectrum implications of in-building systems.
Spectrum access and management in satellite networking including direct-to-device spectrum sharing
Spectrum access and management for 6G covering emerging use cases

Edge computing for spectrum access and management
Information-theoretic aspects of spectrum access and management
Waveform generation for spectrum access and management
Channel models for microwave, mmWave and THz access.
Experiences with experimental, emulation and simulation platforms and tools, including PAWR platforms, the Colosseum and SEAMCAT
Trials, demonstrations and proofs of concept of spectrum sharing
Datasets for community use
Systems and radio frontends for spectrum sensing/access
energy-efficient dynamic spectrum access
Energy harvesting in DSA systems
MAC and routing protocols for spectrum sharing
Dynamic spectrum access, sensing, sharing in new mmWave and THz spectrum
Coexistence of heterogeneous spectrum technologies
Passive or active spectrum sharing
The role of Open RAN in enabling more efficient spectrum utilization
Impact of emerging radio technologies on spectrum management/interference
Policy topics of interest to the conference include but are not limited to:
Business models, pricing and valuation of spectrum
Market design and regulatory approaches for spectrum access and management
Techno-economic modelling
security and privacy issues in spectrum access

and management
Software regulation/standardization and equipment certification
Intermediate spectrum rights models between exclusive licensing and unlicensed/licence-exempt
‘Closed-loop’ spectrum management techniques to better reflect actual rather than planned usage
Industry and government roles in enabling spectrum sharing
Spectrum auctions and economics
Spectrum as it relates to 6G including potential new allocations and new ways of sharing and using spectrum in line with emerging 6G technologies and use cases
Global spectrum management solutions “beyond WRC”
Evolution of spectrum assignment techniques beyond traditional monolithic auctions
Spectrum and/or infrastructure sharing techniques
Shared infrastructure and shared spectrum: the role of neutral hosts
Defining/enforcing rights and responsibilities of spectrum licensees and easement
Standardization of spectrum sharing technology
Impact of emerging radio technologies on regulation and business

Paper Submissions

IEEE DySPAN welcomes submissions of full papers up to 8 pages and short papers up to 4 pages. Both paper types can be on research advances, technology and policy topics related to advanced spectrum innovations. With overlength page charge of $100, 2 additional pages are allowed for full papers and 1 additional page is allowed for short papers. The page limits include all figures, tables, and references. Papers exceeding the

maximum limits (i.e., 10 pages for full and 5 pages for short papers) will not be accepted by EDAS.

The submissions must follow the IEEE conference paper style. Accepted and presented papers will be published in the IEEE DySPAN 2025 Conference Proceedings, which will appear in IEEEXplore. For detailed submission instructions, please refer to the conference website: https://dyspan2025.ieee-dyspan.org/

IEEE DySPAN 2025 will follow a single-blind review process. But, if the authors desire, they are allowed to exclude their names and affiliations.

Best Paper Awards and Fast-track Journal Publication

Full papers will be considered for best paper awards and invitation to fast-track publication at journals. Two Best Paper Awards, each from the technology and policy papers, will be presented based on the evaluation of the technical program committee. Selected high quality papers will be fast-tracked to the IEEE Future Networks Tech Focus (https://futurenetworks.ieee.org/tech-focus), IEEE Open Journal of Antennas and Propagation (https://ieeeaps.org/ieee-ojap), Elsevier Computer Networks Journal (https://www.journals.elsevier.com/computer-networks), and **Telecommunications** Policy (https://www.sciencedirect.com/journal/telecommunications-policy).

TOPICS OF INTEREST

4 topics

Research papers are invited in, but not limited to, the following areas:

- Networking & Cloud Computing
- Telecommunications
- Law & Policy
- Business & Management