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# The 34th Wireless and Optical Communications Conference

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SPECIAL  
SESSION

09

## The Security and Privacy of Cyberspace

In an increasingly interconnected world, the security and privacy of cyberspace have become critical concerns for individuals, organizations, and governments alike. This Special Session addresses the evolving challenges, innovative solutions, and ethical implications surrounding cybersecurity and data privacy. By bringing together researchers, practitioners, and policymakers, the session aims to foster interdisciplinary discussions on safeguarding digital infrastructures, protecting sensitive information, and mitigating emerging threats in cyberspace. Topics will span technical advancements, regulatory frameworks, human-centric approaches, and cross-border collaborations to ensure a resilient and trustworthy digital ecosystem.

### Topics of the Special Session

- Cyberattack detection, prevention, and response mechanisms
- Encryption, anonymization, and privacy-preserving technologies
- AI/ML-driven cybersecurity solutions and adversarial AI threats
- IoT, cloud, and edge computing security challenges
- Data privacy regulations (e.g., GDPR, CCPA) and compliance strategies
- Digital identity management and authentication systems
- Ethical hacking, penetration testing, and vulnerability assessment
- Social engineering, phishing, and human-factor security risks
- Blockchain and decentralized systems for enhanced security
- Cybersecurity in critical infrastructure (e.g., healthcare, energy, finance)
- Privacy-by-design frameworks and secure software development
- Cross-border cybercrime, international law, and global cooperation
- Quantum computing threats and post-quantum cryptography
- Ethical implications of surveillance and data collection practices
- Security awareness, education, and culture-building initiatives

### Session Chairs

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### Planned Contributions ▶▶▶▶

Coming soon.

### Submission

Submission Deadline : **March 31, 2025.**

Submission Link: <https://edas.info/newPaper.php?c=33162&track=130490>

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Further information can be found on the conference  
website at: <https://www.wocc.org>