IEEE CSR 2025
Cyber Security and Resilience

Chania, Crete, Greece | August 4–6, 2025
https://www.ieee-csr.org

2025 IEEE CSR Workshop on Cyber-Vehi-Care for Automotive Cybersecurity (CVC)

Call for Papers

Important dates

Paper submission deadline:
April 14, 2025
Authors' notification:
May 5, 2025
Camera-ready submission:
May 26, 2025
Registration deadline (authors):
May 26, 2025
Workshop dates:
August 4–6, 2025

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The rapid evolution of connected and autonomous vehicles brings transformative benefits to the automotive sector but also elevates cybersecurity risks to unprecedented levels. As vehicles increasingly integrate wireless communication, the need for robust, scalable, and innovative cybersecurity solutions is more critical than ever. Therefore, Software-Defined Radio (SDR) technology represent a pivotal tool in identifying and mitigating vulnerabilities within automotive systems. The CSR CVC workshop focuses on recent advancements in automotive cybersecurity, considering the full lifecycle of risk mitigation, from vulnerability assessment methods to online intrusion detection. We invite researchers, industry experts, and practitioners to contribute their insights and methodologies on SDR-based approaches to securing automotive environments.

The workshop will be held in conjunction with the IEEE CSR 2025 conference as a **physical event**, during August 4–6, 2025. Prospective authors are encouraged to submit previously unpublished contributions from a broad range of topics, which include but are not limited to the following:

- Threat modeling and risk assessment methodologies for connected vehicles
- Secure V2X communication protocols for data integrity and privacy
- Cybersecurity challenges in autonomous driving, incl. real-time threat detection and securing AI-based decision-making
- Automotive software security, secure SDLC, and vulnerability management
- In-vehicle network security solutions, like CAN, LIN protection and intrusion detection systems
- Hardware security strategies, including secure ECU designs, crypto modules and tamper-proof components
- Applications of blockchain and DLTs for enhancing security in areas like vehicle identity management services
- CPS security, addressing resilience to physical and cyber-attacks in vehicular environments
- OTA update mechanisms for software authenticity, integrity, secure delivery
- Privacy and data protection for smart vehicles and regulation compliance.
- Incident response and forensics for automotive cybersecurity.
- Regulatory frameworks, standards, and compliance requirements as well as legal and ethical considerations

The IEEE CSR CVC workshop will accept high-quality research papers presenting strong theoretical contributions, applied research and innovation results obtained from funded cyber-security and resilience projects, and industrial papers that promote contributions on technology development and contemporary implementations.

Submitted manuscripts should not exceed 6 pages (plus 2 extra pages, being subject to overlength page charges) and should be of sufficient detail to be evaluated by expert reviewers in the field. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. Detailed information about paper submission and guidelines for authors can be found at the workshop's website https://www.ieee-csr.org/cvc.

Supported by

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