

VTC2025-Spring

Late Changes to the Technical Program

Tuesday 17 June 2025

Tuesday, 17 June 2025 9:00 - 15:30 Hall B

W5: 6th International Workshop on Decentralized Technologies and Applications for IoT (D'loT) 2025

The following paper has been moved from this workshop to W13.

4 Hyperledger Fabric-Based Decentralized Role-Based Access Control for Sustainable and Resilient Industrial IoT Networks

Omar Bait Shaweesh, Omar Zalloum, Yazan Al-Hadid, Anastassia Gharib, Princess Sumaya University for Technology

Tuesday, 17 June 2025 9:00 - 12:30 Room 5

W6: 9th Workshop on Connected Intelligence for IoT and Industrial IoT Applications- C3IA

The following paper is withdrawn at the request of the corresponding author.

3 Towards Software Defined Networking in Corporate and Data-Centre IoT Environments

Ghazanfar Ali Safdar, University of Bedfordshire; Samuel Lear Rogers, BMW UK; Tahera Kalsoom, Manchester Metropolitan University; Masood Ur-Rehman, University of Glasgow

Wednesday 18 June 2025

Wednesday, 18 June 2025 14:00 - 15:30 Hall B

2B: Antenna Systems and Propagation

The following paper has been moved from this session and will be presented as a virtual paper in Session 2Va.

4 Investigations of the Slot Effect on the Performance of a Sensor Patch Antenna

Rula Alrawashdeh, Mu'tah University

Wednesday, 18 June 2025 14:00 - 15:30 Room 2

2G: Green Communications

The following paper has been moved from this session and will be presented as a virtual paper in Session 5V (Thursday).

1 3D Stochastic Geometry Model for Aerial Vehicle-Relayed Ground-Air-Satellite Connectivity

Yulei Wang, South-Central Minzu University; Yalin Liu, Yaru Fu, Hong Kong Metropolitan University; Yujie Qin, University of Electronic Science and Technology of China; Zhongjie Li, South-Central Minzu University

Wednesday, 18 June 2025 16:00 - 17:30 Room 2

3G: Green Networks

The following paper has been moved from this session and will be presented as a virtual paper in Session 5V (Thursday).

4 Task-Oriented Adaptive Distributed Node State Exchange Framework in Mobile Edge Networks

Liangjie Zhao, Institute of Computing, Chinese Academy of Sciences; Nina Wang, ICT/CAS, China; Zongshuai Zhang, Institute of Computing Technology, Chinese Academy of Sciences, China; Yu Tian, Institute of Computing Technology, Chinese Academy of Science; Beixi Ning, Institute of Computing, Chinese Academy of Sciences; Lin Tian, Institute of Computing Technology, Chinese Academy of Sciences

Thursday 19 June 2025

Thursday, 19 June 2025 14:00 - 15:30 Odin

5E: Coexistence / Semantic Communications

The following paper has been moved from this session and will be presented as a virtual paper in Session 1Vb (Wednesday).

3 Low-Rate Semantic Communication with Codebook-based Conditional Generative Models

Kailang Ye, Mingze Gong, Shuoyao Wang, Daquan Feng, Shenzhen University

Thursday, 19 June 2025 16:00 - 17:30 Hall C

6C: Recent Results I

The following paper has been moved from this session to Session 9C (Friday).

5 Comparison of Multilateration using Wi-Fi RSSI and 5G ToA in a High School Scenario

Vladimir Bellavista-Parent, Universitat Oberta de Catalunya; Joaquin Torres Sospedra, Universitat de València; Antoni Pérez-Navarro, Universitat Oberta de Catalunya

Thursday, 19 June 2025 16:00 - 17:30 Odin

6E: Wireless Services

The following paper has been moved from this session and will be presented as a virtual paper in Session 2Vb (Wednesday).

4 Universal Scanning GUI Tool for Available and Usable TV White Space (TVWS) Spectrum

Muneer Alzubi, Mohamed-Slim Alouini, King Abdulah University of Science and Technology (KAUST)

Friday 20 June 2025

Friday, 20 June 2025 11:00 - 12:30 Hall C

7C: Recent Results II

The following paper has been moved from this session and will be presented in Session 5A (Thursday).

3 Leveraging Contractive Autoencoders for Time-Efficient Rare Cyberattack Detection

Abubakar Danasabe, Zeeshan Kaleem, Muhammad Afaq, Aiman El-Maleh, King Fahd University of Petroleum and Minerals (KFUPM); Chau Yuen, Nanyang Technological University; Abbas Jamalipour, The University of Sydney

Friday, 20 June 2025 14:00 - 15:30 Hall C

8C: Recent Results III

The following paper has been moved from this session and will be presented as a virtual paper in Session 4Vb (Thursday).

5 Experimental Outdoor Performance Evaluation of TVWS Narrowband Data Communication Using SDR Platform

Muneer Alzubi, Mohamed-Slim Alouini, King Abdulah University of Science and Technology (KAUST)

Friday, 20 June 2025 14:00 - 15:30 Odin

8E: Spectrum Management / Radio Access

The following paper has been moved from this session and will be presented in Session 5A (Thursday).

2 Fairness Optimization in Next-Generation Dense WLANs with ISAC

Longhai Huang, Jing Zhang, Huazhong University of Science and Technology; Derrick Wing Kwan Ng, University of New South Wales

Friday, 20 June 2025 16:00 - 17:30 Hall C

9C: Recent Results IV

The following paper has been moved from this session and will be presented in Session 2G (Wednesday)

5 Joint Optimization of Channel Reuse and Power Allocation in Shared D2D Communication Mode

Ishtiaq Ahmad, Zdenek Becvar, Pavel Mach, Czech Technical University in Prague

New Paper Presentations

Tuesday, 17 June 2025 16:00 - 18:00 Room 4

W13: IEEE Workshop on Converged Communication, Computing, and Control for Next-Generation Cyber-Physical Systems (C4CPS)

4 Hyperledger Fabric-Based Decentralized Role-Based Access Control for Sustainable and Resilient Industrial IoT Networks

Omar Bait Shaweesh, Omar Zalloum, Yazan Al-Hadid, Anastassia Gharib, Princess Sumaya University for Technology

Wednesday, 18 June 2025 14:00 - 15:30 Room 2

2G: Green Communications

1 Joint Optimization of Channel Reuse and Power Allocation in Shared D2D Communication Mode

Ishtiaq Ahmad, Zdenek Becvar, Pavel Mach, Czech Technical University in Prague

Thursday, 19 June 2025 14:00 - 15:30 Hall A

5A: Emerging Signal Processing Technology I

5 Fairness Optimization in Next-Generation Dense WLANs with ISAC

Longhai Huang, Jing Zhang, Huazhong University of Science and Technology; Derrick Wing Kwan Ng, University of New South Wales

6 Leveraging Contractive Autoencoders for Time-Efficient Rare Cyberattack Detection

Abubakar Danasabe, Zeeshan Kaleem, Muhammad Afaq, Aiman El-Maleh, King Fahd University of Petroleum and Minerals (KFUPM); Chau Yuen, Nanyang Technological University; Abbas Jamalipour, The University of Sydney

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9C: Recent Results IV

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Vladimir Bellavista-Parent, Universitat Oberta de Catalunya; Joaquin Torres Sospedra, Universitat de València; Antoni Pérez-Navarro, Universitat Oberta de Catalunya

New Virtual Paper Presentations

Wednesday, 18 June 2025 11:00 - 12:30 Online

1Vb: Signal Processing for Wireless Communications Virtual Papers

17 Low-Rate Semantic Communication with Codebook-based Conditional Generative Models

Kailang Ye, Mingze Gong, Shuoyao Wang, Daquan Feng, Shenzhen University

Wednesday, 18 June 2025 14:00 - 15:30 Online

2Va: Antenna Systems, Propagation, and RF Design Virtual Papers

5 Investigations of the Slot Effect on the Performance of a Sensor Patch Antenna

Rula Alrawashdeh, Mu'tah University.

Wednesday, 18 June 2025 14:00 - 15:30 Online

2Vb: Spectrum Management, Radio Access Technology, Services and Security Virtual Papers

11 Universal Scanning GUI Tool for Available and Usable TV White Space (TVWS) Spectrum

Muneer Alzubi, Mohamed-Slim Alouini, King Abdulah University of Science and Technology (KAUST)

Thursday, 19 June 2025 14:00 - 15:30 Online

4Vb: Recent Results Virtual Papers

16 Experimental Outdoor Performance Evaluation of TVWS Narrowband Data Communication Using SDR Platform

Muneer Alzubi, Mohamed-Slim Alouini, King Abdulah University of Science and Technology (KAUST)

Thursday, 19 June 2025 14:00 - 15:30 Online

5V: Green Communications and Networks Virtual Papers

4 3D Stochastic Geometry Model for Aerial Vehicle-Relayed Ground-Air-Satellite Connectivity

Yulei Wang, South-Central Minzu University; Yalin Liu, Yaru Fu, Hong Kong Metropolitan University; Yujie Qin, University of Electronic Science and Technology of China; Zhongjie Li, South-Central Minzu University

5 Task-Oriented Adaptive Distributed Node State Exchange Framework in Mobile Edge Networks

Liangjie Zhao, Institute of Computing, Chinese Academy of Sciences; Nina Wang, ICT/CAS, China; Zongshuai Zhang, Institute of Computing Technology, Chinese Academy of Sciences, China; Yu Tian, Institute of Computing Technology, Chinese Academy of Science; Beixi Ning, Institute of Computing, Chinese Academy of Sciences; Lin Tian, Institute of Computing Technology, Chinese Academy of Sciences