

ISICN 2025 Final Program

Schedule

	Monday, March 17, 2025	Tuesday, March 18, 2025	Wednesday, March 19, 2025
9:00 AM - 10:30 AM	Opening Speeches Keynotes 1: Dr. Ramesh Ramadoss Keynotes 2: Gora Datta	Session 2: Advanced Al Applications – 1	Session 4: Al-Enabled IoT and Edge Systems
10:30 AM - 11:00 AM	Coffee Break	Coffee Break	Coffee Break
11:00 AM - 12:30 PM	Session 1: Al-Driven Systems	Session 3: Advanced AI Applications – 2	Session 5: Cross-Disciplinary Innovations
12:30 PM - 1:30 PM	Lunch	Lunch	Lunch
1:30 PM - 3:00 PM	Keynotes 3: Dr. Honggang Wang Cybersecurity in mHealth Tutorial: Dr. Haijian Sun and Dr. Feng Ye Rethinking Wireless Channels through Computer Vision and Al	Workshop 1: Enhanced Open Networked Airborne Computing Platform (1:30 PM – 3:30 PM)	Session 6: Secure AI Systems
3:00 PM - 3:30 PM	Coffee Break	Coffee Break	Coffee Break
3:30 PM - 5:00 PM	Tutorial: Dr. Haijian Sun and Dr. Feng Ye Rethinking Wireless Channels through Computer Vision and AI	Workshop 2: IEEE BCTC Workshop on Blockchain and Finance (3:30 PM – 5:30 PM)	Session 7: Intelligent Wireless and Signal Optimization
6:00 PM - 9:00 PM	Welcome Reception	Conference Dinner	

Opening Speeches

Monday, 9:00 AM - 9:20 AM, March 17, 2025

ISICN 2025 General Chairs & TPC Chairs

Dra. Cristina Pomales-Garcia

Dean of College of Engineering

University of Puerto Rico-Mayaguez

Keynotes

Keynotes 1 and 2: Monday, 9:20 AM – 10:40 AM, March 17, 2025

Keynote 1: State-of-the-Art and Technical Challenges

Dr. Ramesh Ramadoss, Chair of IEEE Blockchain Technical Community



Abstract:

Blockchain emerged in 2009 with the introduction of Bitcoin, a peer-to-peer electronic cash system. Over the past decade, blockchain technology and, more broadly, Distributed Ledger Technology (DLT) have significantly evolved by integrating principles from distributed systems, cryptography, and economic theory. This intersection has led to diverse and innovative architectures employing various novel consensus protocols, specialized data structures, advanced cryptographic techniques, and sophisticated economic incentive models. Blockchain/DLT platforms typically fall into two main categories: public and private blockchains. Private blockchains are primarily adopted in enterprise and governmental contexts due to their controlled access, scalability, and enhanced privacy features. In contrast, public blockchains have become dynamic hubs for economic experimentation and innovation, driving advancements such as stablecoins, Non-Fungible Tokens (NFTs), Decentralized Finance (DeFi), GameFi ecosystems, and Decentralized Autonomous Organizations (DAOs). Despite substantial progress, significant technical challenges persist within Blockchain and DLT fields. This talk will address these ongoing challenges and outline critical areas that require further research and development.

Bio:

Ramesh Ramadoss is an entrepreneur, researcher, author, and international speaker. He earned his Doctor of Philosophy (Ph.D.) in Electrical Engineering from the University of Colorado at Boulder, USA. He serves as the Chair of the IEEE Blockchain Technical Community and spearheaded the establishment of over 80 IEEE Blockchain Local Groups worldwide. He is the author or co-author of one book, four book chapters, and more than 50 research papers. He has delivered talks at over 200 international conferences across 75 countries. He is the recipient of the 2025 Distinguished Leadership Award from the IEEE TEMS Technical Committee on Blockchain and Distributed Ledger Technologies. In 2024, his biography was included in the Marquis Who's Who registry for his notable contributions to engineering. He has five years of academic experience and has conducted research

projects for DARPA, NASA, the U.S. Army, the U.S. Air Force, Sandia National Labs, and Motorola Labs. Additionally, he has over 15 years of industry experience spanning startups, medium-sized companies, and large corporations in Silicon Valley. Currently, he is active in the fields of AI and blockchain.

Keynote 2: Enhancing Healthcare Interoperability with Blockchain Technology

Gora Datta, FHL7, SMIEEE, SMACM

Serial Entrepreneur / Technologist / Educator / Advisor / Digital Health Standards SME / Mobile Health Standards Pioneer



Abstract:

The healthcare industry faces significant challenges in managing and sharing patient data across disparate systems, often leading to inefficiencies, errors, and increased costs. Blockchain technology presents a promising solution to these issues by providing a secure, transparent, and decentralized framework for data management and interoperability. This keynote address will explore how blockchain can revolutionize healthcare by enabling seamless data exchange and improving patient outcomes. The presentation will cover the following key areas: Electronic Health Record (EHR) Management; Identity Management; Clinical Trial Management; Supply Chain Management; Telemedicine and Mobile Health Apps; Privacy and Compliance Regulation; Health Informatics Standards; Emerging Technologies and Smart Health. Through real-world examples and case studies, this keynote address will demonstrate the transformative potential of blockchain technology in healthcare. Attendees will gain valuable insights into the practical applications of blockchain, as well as the challenges and opportunities it presents for the future of healthcare.

Bio:

Gora Datta FHL7, a Fellow of HL7, SMIEEE, SMACM, and an engineering faculty at University of California, Berkeley, is a pioneer in the field of Mobile Health standards. He is a global entrepreneur, keynote speaker, educator, advisor, mentor, visionary executive, and internationally recognized Subject Matter Expert in Digital Health, Mobile Health, Public Health, Health Informatics Standards, and CyberHealth initiatives, with 40 years of professional experience worldwide.

As an expert in digital health standards, Gora holds several leadership positions in multiple standards development organizations (SDOs), including IEEE-SA, ISO/TC215, and HL7:

Board Member and Vice Chair of the IEEE Blockchain Technical Community

- Chair IEEE-SA Workgroup P3228: Standard for Recurring Transactions using Distributed Ledger Technologies (DLTs)
- (founding) Convenor of the ISO/TC215 Traditional Medicine Work Group
- Board Director atHL7 International
- (founding) Co-Chair of the HL7 Mobile Health Work Group.

Additionally, he is the founding Chairman and CEO of the CAL2CAL group of companies, established in 1996, which is an innovative organization specializing in emerging technology products and solutions.

Keynote 3: Monday, 1:30 PM - 2:30 PM, March 17, 2025

Title: Cybersecurity in mHealth

Dr. Honggang Wang, IEEE Fellow Founding Chair and Professor Department of Graduate Computer Science and Engineering Yeshiva University



Abstract:

Mobile health (mHealth) is a rapidly growing field that utilizes mobile devices like smartphones and wearables to provide healthcare services and information. While mHealth has the potential to improve healthcare significantly, it also presents substantial cybersecurity risks. For example, unauthorized access to sensitive patient information is a major concern, and it can happen through compromised wearables or networks, leading to data breaches. As a result, ensuring security in mHealth applications is crucial to guarantee the safety and effectiveness of mHealth technologies. In this talk, I will discuss several aspects of cybersecurity in mHealth and present our innovated physical Layer security approach for wearable devices and its advantages. I will also dicuss the possible research directions for mHealth cybersecurity.

Bio:

Dr. Honggang Wang is the founding chair and professor of the Department of Graduate Computer Science and Engineering at Yeshiva University's Katz School of Science and Health in New York City. He is also affiliated with the Albert Einstein College of Medicine. Dr. Wang has supervised over 30 graduate students, including 12 Ph.D. Students. His research spans several areas, including Artificial Intelligence, Internet of Things, Cyber Security, and Smart Health, earning him multiple best paper awards. Dr. Wang is an IEEE Distinguished Lecturer and Fellow of IEEE and AAIA. He served as Editor-in-Chief of the IEEE Internet of Things Journal from 2020 to 2022 and chaired the IEEE Multimedia Communications and eHealth Technical Committees. He is an alumnus of the NAE Frontiers of Engineering program.

Tutorial

Monday 2:30 PM - 5:00 PM, March 17, 2025

Title: Rethinking Wireless Channels through Computer Vision and Al

Dr. Haijian Sun and Dr. Feng Ye





Abstract:

Wireless channel modeling plays a critical role in the current and next-generation wireless communication systems, especially with the plethora implementation of massive multiple-input multiple-output (MIMO) technologies being widely used in 5G and beyond. However, the state-of-the-art techniques for wireless channel modeling are far from an ideal solution. With the advent and tremendous development in computer vision (CV) and artificial intelligence (AI), this tutorial is to provide a revolutionary vision of modeling wireless channels in complex environments. In particular, this tutorial begins by providing an overview of wireless communication networks, as well as a brief review on various aspects of wireless channel advancements in the past decades. Next, we present an overview of wireless channels in the era of AI and computer vision with an introduction to radiance field, AI for wireless and connecting wireless channels with computer vision tasks. We further delve into a detailed approach on representing wireless channels with radio radiance field. We also touch on the application of novel channel representations in wireless communications and sensing. Finally, we conclude with insights into the future directions of the integration of AI, computer vision, and wireless channel modeling for next-generation wireless communication systems.

Bios:

Haijian Sun is an Assistant Professor in the School of Electrical and Computer Engineering at The University of Georgia. He obtained his Ph.D. degree in the Department of Electrical and Computer Engineering from Utah State University, USA, in 2019. His current research interests include vehicular communication, wireless communication for 5G and beyond, machine learning at the edge, cyber security, IoT communications, wireless systems, and optimization analysis. Dr. Sun directs the ESI Wireless Lab at The University of Georgia and has published extensively in the field of wireless communication. He is a recipient of the Best Paper Award from IEEE ISICN 2024. Dr. Sun is currently serving on the editorial boards for IEEE Communications Magazine and IEEE Network.

Feng Ye is currently an assistant professor in the Department of Electrical and Computer Engineering at the University of Wisconsin–Madison (UW-Madison). Prior to joining UW-Madison, Dr. Ye had been an assistant professor and associate professor at the University of Dayton (UD), USA, from 2016 to 2023. His research interests include wireless communications and networks, machine/deep learning in networking, information and network security, big data and smart city, and smart grid communications. He is currently a column editor of IEEE Wireless Communications, an associate editor of IEEE Communications Magazine, IEEE Transactions on Vehicular Technology, and IEEE Internet of Things Journal. He also serves as a TPC member for numerous international conferences, including INFOCOM, GLOBECOM, VTC, ICC, etc.

Workshops

Workshop 1:

Workshop on Enhanced Open Networked Airborne Computing Platform

Tuesday, 1:30 PM - 3:30 PM, March 18, 2025

Organizers: Dr. Shengli Fu and Dr. Kejie Lu





Short Bios

Dr. Shengli Fu is currently a professor and the Chair in the Department of Electrical Engineering, University of North Texas (UNT), Denton, TX. He received his Ph.D. degree in Electrical Engineering from the University of Delaware, Newark, DE, in 2005, before he joined UNT. His research interests include coding and information theory, wireless communications and sensor networks, aerial networks, and drone systems design.

Dr. Kejie Lu is a professor in the Department of Computer Science and Engineering, at the University of Puerto Rico at Mayagüez (UPRM). He received his Ph.D. degree in Electrical Engineering from the University of Texas at Dallas in 2003. Since July 2005, he has been a faculty member at UPRM. His research interests include architecture and protocol design for computer and communication networks, cyber-physical systems, network-based computing, and network testbed development.

Agenda

- 1) Overview and The Airborne Computing Platform, Dr. Shengli Fu
- 2) Airborne Computing-based Networking and Applications, Dr. Kejie Lu
- 3) A Federated Learning Testbed for Airborne Computing, Dr. Dong Wang

Workshop 2:

IEEE BCTC Workshop on Blockchain and Finance

Tuesday, 3:30 PM - 5:30 PM, March 18, 2025

Presentation 1: Introduction to Decentralized Finance

Speaker: **Cristian Melendez**



Abstract:

Learn the fundamentals of Decentralized Finance (DeFi), from setting up a crypto wallet to exploring opportunities like staking, lending, and decentralized exchanges. DeFi is transforming the way we manage money by eliminating intermediaries and giving users full control over their assets.

Bio:

Cristian Melendez is a software engineer, Web3 developer, and serial entrepreneur with a passion for cutting-edge technology graduated from UPRM. With expertise in building large-scale applications, blockchain solutions, and UX/UI design, he blends technical proficiency with business acumen. His background in project management and agile methodologies enables him to deliver innovative, user-centric products. Dedicated to driving technological advancement, Cristian focuses on creating solutions that empower users and shape the future of decentralized finance.

Presentation 2: **Blockchain-Enabled Economic Transactions: Recurring Financial Accruals and Payments**

Speakers: Omer Ozkul, Razvan Mihai





Abstract:

Economic transactions are based upon implicit or explicit contracts that set out the rights and obligations of the parties to the transactions. Blockchain technology can address fundamental

financial, economic, and accounting challenges. We proposed a blockchain-based prototype capable of capturing the essence of recurring economic transactions. For this purpose, we have devised an asset rental contract to show how economic transactions are recorded and tracked more effectively, efficiently, and in quasi-realtime, thus changing the traditional way of account keeping and auditing. We use the Ethereum blockchain as the most evolved and widely used smart contract platform. We showcase a significant discovery related to current blockchain technology limitations to making automatic non-custodial recurring payments.

The presentation will cover the following key areas: Universal Contract on Blockchain; Economic Transaction Fundamentals; Theoretical introduction to Accruals and Recurring Payments; Use Cases; Prototype Introduction; General Architecture of the Prototype; Current Technology Stack and how to choose one; How to write and Deploy Smart Contracts.

This workshop will showcase the transformative potential of blockchain technology in decentralized applications. Attendees will gain practical insights into building and deploying smart contracts on Ethereum, exploring the key components of a blockchain-based system, and understanding the challenges and opportunities in Web3 development as well as connecting the dots between the financial world and computer science.

Bios:

Omer Ozkul, a seasoned developer and accomplished team leader, is also a notable co-author of a significant academic paper with IEEE. This groundbreaking research unveiled a crucial limitation of blockchain technology. Proficient in web, mobile and blockchain technologies, Omer's skills extend to encompass full-stack development, mobile-app development, smart contracts, and decentralized applications (DApps). Additionally, he brings expertise in sprint management and the roles of a Scrum Master, showcasing proficiency in agile methodologies. As an expert in development Omer holds several positions in multiple areas: Open-Source Maintainer IEEE-SA Workgroup P3228: Standard for Recurring Transactions using Distributed Ledger Technologies (DLTs) IEEE Blockchain Region 8 Technical Coordinator.

Razvan Mihai, a seasoned financial expert with a distinguished 20-year career in the Big 4 space, showcases a wealth of experience and leadership in the financial advisory and audit sector. His professional journey began at Arthur Andersen in 1997, followed by joining KPMG in 2002, where he ascended and served as an Executive Partner and Head of KPMG Advisory. Known for founding the Energy and Utilities and Corporate Finance Departments at KPMG Romania, Razvan also demonstrated proficiency in overseeing the IT department operations. His practical experience includes, inter alia, managing and signing off complex audit reports for several IPO companies and leading intricate buy and sell-side corporate finance mandates. Earlier this year, Razvan completed his Ph.D. at the Politehnica University of Bucharest, successfully blending advanced technical skills with his extensive financial acumen. Passionate about challenging the status quo, Razvan makes significant contributions by regularly publishing academic papers on blockchain and its intersection with finance and technology.

Technical Sessions

Session 1: Al-Driven Systems

Chair: Qing Yang, University of North Texas, Texas, USA

Monday, 11:00 AM - 12:30 PM, March 17, 2025

- Mohammad Dehghani Tezerjani, Haining Liu, Qing Yang, Xinrong Li, Yan Huang, Networking in Collaborative Multi-Robot Systems for Enhanced Mapping and Navigation
- Ramapriya Ranganath, Manaswini Gogineni, Feng Ye, MADNET: Redefining the Way for Data Caching and Distribution with Sporadic Internet Connectivity
- 3. Ziyang Wei, Yili Jiang, Jiaqi Huang, Fangtian Zhong, Sohan Gyawali, Detecting **Backdoor Attacks via Similarity in Semantic Communication Systems**
- 4. Ruth Huaman, Gretchen Bonilla, Manuel Rodriguez, **RGCache: Caching with Deep Reinforcement Learning**
- 5. Alex Wollman, John Hastings, **CEKER: A Generalizable LLM Framework for Literature Analysis with a Case Study in Unikernel Security**

Session 2: Advanced AI Applications – 1

Chair: Heidy Sierra, University of Puerto Rico at Mayagüez, Puerto Rico

Tuesday, 9:00 AM - 10:30 AM, March 18, 2025

- Michael Alvarez, Emmanuel Arzuaga, Heidy Sierra, Virtual Stain and Phase Estimation Using Encoder-Decoder Networks
- 2. Jacob Delgado-Lopez, Andrea Seda-Hernandez, Juan Guadalupe-Rosado, Luis Fernandez Ramirez, Miguel Giboyeaux-Camilo, Wilfredo Lugo-Beauchamp, **Model Compression for Wearable Devices Skin Cancer Diagnosis**
- 3. Jacob Delgado-Lopez, Ricardo Morell-Rodriguez, Sebastian Espinosa-Del Rosario, Wilfredo Lugo-Beauchamp, Computer Vision for Real-Time Monkeypox Diagnosis on Embedded Systems
- 4. Andrea Gomez, Emmanuel Arzuaga, Comparing YOLO Models for Real-Time American Sign Language Recognition
- Sebastián Cruz-Romero, Wilfredo Lugo Beauchamp, Performance Analysis of Post-Training Quantization for CNN-Based Conjunctival Pallor Anemia Detection

Iván Darío Conde Sarmiento, Manuel Rodriguez Martinez, Dynamic Resource
 Allocation in Disaggregated Query Engines Using Deep Reinforcement Learning

Session 3: Advanced AI Applications – 2

Chair: Dong Wang, University of Puerto Rico at Mayagüez, Puerto Rico

Tuesday, 11:00 AM - 12:30 PM, March 18, 2025

- Laura Saldaña-Aristizábal, Kevin Niño-Tejada, Jhonathan L. Rivas-Caicedo, Juan F. Patarroyo-Montenegro, Evaluating Quaternion-Based Representations for Human Activity Recognition Using Motion Capture
- Ferit Akaybicen, Aaron Cummings, Lota Iwuagwu, Xinyue Zhang, Modupe Adewuyi, A Machine Learning Approach for Emergency Detection in Medical Scenarios Using Large Language Models
- 3. Shi Lu, Yuhan Ma, Enhancing Echo Detection in Audio Signals Using Deep Learning Techniques
- 4. Moisés Robles Pagán, Manuel Rodríguez Martínez, **Fighting Health-Related Misinformation in Social Media with Large Language Models**
- 5. Juan Pena, Evelyn Vasquez, Alejandra Feo, Juan Felipe Medina Lee, **Take Over Requests Study in a Simulation Environment for Conditional Automated Vehicles**
- 6. Shi Lu, Yuhan Ma, **Detecting Faked AI Calls Using AI-Based Mean Opinion Score Prediction and RTCP Analysis**

Session 4: AI-Enabled IoT and Edge Systems

Chair: Venkataramani Kumar, University of Puerto Rico at Mayagüez, Puerto Rico Wednesday, 9:00 AM - 10:30 AM, March 19, 2025

- Dong Wang, Kejie Lu, Enhancing the Privacy and Security of Federated Learning:
 A Survey
- 2. Venkataramani Kumar, Feng Ye, A Preliminary Study on Quantum Digital Twins for IoT-Enabled Disaster Management
- 3. Jingze Dai, Jiaqi Huang, Yili Jiang, Sohan Gyawali, Fangtian Zhong, **A Survey of Explainable Intrusion Detection Systems in IoT Networks**

- 4. Ke Ma and Junfei Xie, **Decentralized Network Topology Design for Task Offloading** in Mobile Edge Computing
- 5. Ricardo Lent, Adaptive Routing for a DTN with Storage Constraints in a Satellite Constellation
- Paul S. Kudyba, Haijian Sun, Autonomous Agricultural Monitoring with Aerial Drones and RF Energy-Harvesting Sensor Tags

Session 5: Cross-Disciplinary Innovations

Chair: Jielun Zhang, University of North Dakota, North Dakota, USA

Wednesday, 11:00 AM - 12:30 PM, March 19, 2025

- Jason Mixon, Austin O'Brien, Cherie Noteboom, Stephen Krebsbach, Mark Spanier, Bone Surface Modification Dataset Synthesis for Computer Vision Models Using LoRA Tuned Latent Diffusion Models
- 2. Mingwei Lei, Xin Zhang, Yong Hou, Jielun Zhang, **Comparative Analysis of Serial- Parallel vs. Parallel-Serial MOSFET Configurations for Battery Management Systems**
- 3. Kevin Niño-Tejada, Laura Saldaña-Aristizábal, Jhonathan L. Rivas-Caicedo, Juan F. Patarroyo-Montenegro, **IMU Sensors Emulation Using Motion Capture Systems**
- 4. Leigh Metcalf, William Casey, Heeralal Janwa, Shirshendu Chatterjee, Ernest Battifarano, Timur Snoke, **Finding Anomalies in Border Gateway Protocol for Routing Data Through the Internet**
- Jhonathan L. Rivas-Caicedo, Laura Saldaña-Aristizábal, Kevin Niño-Tejada, Juan F. Patarroyo-Montenegro, Mitigating Communication Failures in Multi-Sensor Wearable Systems: Extrapolation Methods for LSTM-Based Posture Classification

Session 6: Secure AI Systems

Chair: Dalei Wu, University of Tennessee at Chattanooga, Tennessee, USA

Wednesday, 1:30 PM - 3:00 PM, March 19, 2025

 Abdullah Al Noman, Samson Olugbenga Idowu, Rolly Davany Mougoue Kakanou, Paolo Ciancarini, Mengfei Ren, An Al-Based Security Analysis Solution for DevSecOps

- Luis Garcia, Franz Kurfess, Dongfeng Fang, Real-Time DDoS Detection Using a Docker-Based Machine Learning Testbed
- 3. Venkataramani Kumar, Deigo Molina Perez, **Containerized End-to-End Tunable Bias-Based Password Strength Assessment Framework**
- 4. Yifan Wang, Michel Kadoch, Ruicong Zhang and Jingyang Ren, **Revolutionizing Financial Industry with Large Language**
- Mehedi Hasan, Philip Segraves, Dalei Wu, Yu Liang, Intelligent Reconfigurable
 Battery Systems Enabled by Deep Reinforcement Learning

Session 7: Intelligent Wireless and Signal Optimization

Chair: Qun Wang, San Francisco State University, California, USA

Wednesday, 3:30 PM - 5:00 PM, March 19, 2025

- 1. Jiaxin Wu, Michel Kadoch and Yiyuan Yao, Intelligent Multi-Channel Fan Control System for Data Center Power Containers Using Siemens PLC
- 2. Dalyana Mercado-Perez, Feng Ye, Beamforming in Complex Indoor Environment
- 3. Iifiok Udoidiok, Bruno Fonkeng, Jielun Zhang, Fuhao Li, **Towards Reliable and Interference-Aware CSI Feedback with Bayesian Neural Network**
- 4. David Chen, Qun Wang, Haijian Sun, Yue Hao, **GNN Based PLS Enhancement for Next Generation Spectrum Sharing Industrial Networks**
- 5. Sicheng Liu, Qun Wang, Zhuwei Qin, Weishan Zhang, Jingyi Wang, Xiang Ma, **IRS Assisted Decentralized Learning for Wideband Spectrum Sensing**

Session 8: Poster/Virtual Session

Chair: Feng Ye, University of Wisconsin-Madison, Wisconsin, USA

- 1. Gengyi Bai, Xiling Luo, Yupeng Wang, **UAV Dual-agent: A Framework Integrating LLM and Knowledge Graphs for Low-Altitude UAV Operation and Maintenance**
- 2. Caixia Sun, Hanlin Zhang, Kun Hua, Hansong Xu, Phoenix Fang, **Privacy-Preserving Graph Similarity Search**
- 3. Ian Hardgrove, Shengjie Xu, **Towards Intelligent Fuzzing: Leveraging Large Language Models for Improved Software Security**

- 4. Gary McCully, John Hastings, Shengjie Xu, **Impact of Data Snooping on Deep Learning Models for Locating Vulnerabilities in Lifted Code**
- 5. Yiran Wang, Yanhao Wang, Erjun Du, Tao Hong and Hua Zhang, **Research on V2X**Communication Channels Based on RCS Characteristics
- 6. Jiatong Zhang and Tao Hong, **A Review of Wireless Communication Based on GaN Devices**
- 7. Yuchen Zhang and Haotong Hong, **Research on key technology of UAV real-time** recognition and tracking based on YOLOv5
- 8. Yuqing Chai, Satellite-Terrestrial Network Integration for 6G: Enhancing Global Connectivity and Seamless
- 9. Tong Liu, Yu Feng, Zhiyan Lin, Qinqin Li, Tao Hong and Hua Zhang, **Devices Design**of a Multi-Channel Receiving System for Monitoring Data in Greenhouses Based
 on LoRa
- 10. Bingxin Wang, Lei Liu and Jie Wang, Low Earth Orbit (LEO) Satellites for 5G-A:
 Revolutionizing Global Connectivity and Real-Time Communications
- 11. Lei Liu and Bingxin Wang, Leveraging Ultra-High Frequency Spectrum for 6G Communication: Challenges and Solutions
- 12. Pingping Lin and Zhirong Zhang, **URLLC in 5G-A Enabling Critical Applications and Real-Time Services**
- 13. Yuetian Zhou, **Al-Driven Smart Networks: Transforming 5G-A Communication for Autonomous and Efficient Connectivity**
- 14. Jie Wang, Bingxin Wang and Dan Tu, **Converged Network Architectures for 5G-A:**Integrating Terrestrial, Satellite, and Airborne Communication

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