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<b>Biography</b> (Please provide in paragraph form within 500 words.) (中英文)		
<p>Dr. Ziye Jia received the B.E., M.S., and Ph.D. degrees in communication and information systems from Xidian University, Xi'an, China, in 2012, 2015, and 2021, respectively. From 2018 to 2020, she was a Visiting Ph.D. Student with the Department of Electrical and Computer Engineering, University of Houston. She is currently an Associate Professor with the Key Laboratory of Dynamic Cognitive System of Electromagnetic Spectrum Space, Ministry of Industry and Information Technology, Nanjing University of Aeronautics and Astronautics, Nanjing, China. Her current research interests include space-air-ground networks, aerial access networks, UAV networking, resource optimization and machine learning. She has published more than 70 scientific articles in leading journals and international conferences. She obtained the Best Paper Award of FCN 2025. She is currently an Associate Editor of the IEEE Internet of Things Journal. She served as the TPC for IEEE GLOBECOM 2025/2024/2023, IEEE WCNC 2025/2024, IEEE WCSP 2025, etc.</p> <p>贾子晔，工学博士，硕士生导师。获得中国科协青托、江苏省青托、南京市留学人员资助 A 类等人才计划。分别于 2012、2015 和 2021 年获得西安电子科技大学学士、硕士和博士学位，2018-2020 年于美国休斯敦大学进行联合培养。主要从事空天地一体化网络、低空互联网、低空经济等方向的相关基础理论和应用技术研究，在 IEEE JSAC、IEEE TWC、IEEE TCOM、IEEE TVT、IEEE NETWORK、IEEE ICC、IEEE GLOBECOM 等 TOP 期刊及会议发表论文 70 余篇，其中 ESI 高被引论文 1 篇，谷歌学术引用 1000+；受理/授权专利 20 余项；获得陕西省优秀博士学位论文、国防科技进步一等奖、日内瓦国际发明展银奖、西安电子科技大学优秀博士学位论文等。担任中国电子学会通信分会青年委员、IEEE Member、电子学会会员、通信学会高级会员；担任 IEEE Internet of Things Journal 编委、《数据采集与处理》青年编委、《通信学报》青年编委等；长期担任 IEEE JSAC、IEEE TWC、IEEE TMC 等权威期刊审稿人，获得 IEEE Communications Letter 2024 最佳审稿人；曾担任 IEEE GLOBECOM、IEEE WCNC 等国际会议的 TPC Member 及 Session Chair。主持国家自然科学基金、江苏省自然科学基金等项目，重点参与国家重点研发计划、科技委基础加强重点项目、江苏省前沿引领技术基础研究重大项目等。</p>		
Speech Title (English): (中英文)		
Framework and Resource Optimization for Low-Altitude Intelligent Networks 低空互联网架构与优化		
<b>Speech Abstract</b> (Please provide in paragraph form within 500 words.) (中英文)		

低空物联网（Low-Altitude Intelligent Network, LAIN）是构建空天地一体化网络与支撑 6G 泛在连接的关键基础设施。面向智能服务由地向空延伸的新趋势，LAIN 亟需解决频谱稀缺、链路动态性强、空域管理复杂等突出难题。本报告重点围绕“认知智能”与“空域安全”展开，首先介绍面向低空场景的无线环境认知框架，利用人工智能与边缘协同感知实现对频谱、干扰、拥塞状态的动态感知与自适应优化；其次，针对低空飞行器数量激增所带来的空域拥堵与碰撞风险，提出基于多源信息融合的空域监测技术体系，结合 ADS-B、Remote ID 等多维感知手段构建多层级空域安全机制。此外，还将探讨多资源（频谱、算力、能量、拓扑等）协同优化方法，以及面向未来低空交通与应急应用的关键挑战与发展趋势。

The Low-Altitude Intelligent Network (LAIN) serves as a critical infrastructure for enabling space-air-ground integrated networking and supporting ubiquitous connectivity in future 6G systems. With the rapid extension of intelligent services from ground to low-altitude airspace, LAIN faces fundamental challenges, including spectrum scarcity, highly dynamic wireless links, and complex airspace management. This work focuses on cognitive intelligence and airspace safety for low-altitude networking. Specifically, a wireless environment cognition framework is introduced, leveraging artificial intelligence and edge-assisted cooperative sensing to achieve dynamic perception and adaptive optimization of spectrum usage, interference, and network congestion. In addition, a multi-source information fusion-based airspace monitoring architecture is presented to address airspace congestion and collision risks caused by the increasing number of low-altitude aerial vehicles, by integrating multi-dimensional sensing technologies such as ADS-B and Remote ID. Furthermore, collaborative optimization of heterogeneous resources, including spectrum, computing, energy, and network topology, is investigated, along with key challenges and future research directions for low-altitude transportation and emergency applications.