2023第十一届中国指挥控制大会

特邀专题论坛简介

|  |
| --- |
| **特邀专题名称**  下一代信息通信技术：安全、智能与高效 |
| **召集人的姓名、职称、单位和邮箱**  张海粟（教授，国防科技大学信息通信学院， zhanghaisu@nudt.edu.cn） |
| 特邀专题简介（背景、目的、意见和内容）  近年来，信息通信技术（ICT）取得了飞速发展，深刻地改变了各个行业，并成为推动全球经济增长的关键力量。随着对更高数据速率、更可靠连接以及更强安全性的需求不断增加，下一代信息通信技术的发展与应用成为了研究和产业界的热点话题。同时，新技术的引入也带来了诸多挑战，如网络安全、电磁频谱管理、电子对抗等领域亟待解决的问题。本次专题会议旨在汇集来自指挥控制、网络安全、电磁频谱、电子对抗、大数据服务等领域的专家、学者和企业家，共同探讨信息通信技术在这些领域的应用及挑战。会议将促进跨学科交流与合作，提高信息通信技术在实际应用中的安全性、可靠性和稳定性，推动相关领域的技术创新和产业发展。  本特邀专题邀请以下与“下一代信息通信技术：安全、智能与高效”主题相关的包含创新思想、概念、新发现、改进以及新应用的原创论文，相关主题包括但不仅限于：   * 指挥控制系统中的信息通信技术 * 网络安全与信息通信 * 电磁频谱管理与信息通信 * 电子对抗与抗干扰通信技术 * 大数据服务与信息通信 |

**C2-China 2022**

**Invited Session Summary**

|  |
| --- |
| **Title of Session**  Next-generation Information and Communication Technology: Secure, Intelligent, and Efficient |
| **Name, Salutation, Affiliation and Email of Organizers**  Haisu Zhang (Professor, School of Information and Communication, National University of Defense Technology, zhanghaisu@nudt.edu.cn) |
| **Details of Session (background, purpose, significance and scope)**  In recent years, information and communication technology (ICT) has experienced rapid development, profoundly transforming various industries and becoming a crucial driving force for global economic growth. With the increasing demand for higher data rates, more reliable connectivity, and improved security, the development and application of next-generation information and communication technology have become hot topics in both research and industry. At the same time, the introduction of new technologies brings numerous challenges, such as urgent issues in network security, electromagnetic spectrum management, electronic countermeasures, and other fields that need to be addressed. This special conference aims to bring together experts, scholars, and entrepreneurs from fields such as command and control, network security, electromagnetic spectrum, electronic countermeasures, and big data services to jointly explore the application and challenges of information and communication technology in these areas. The conference will promote interdisciplinary exchanges and cooperation, improve the security, reliability, and stability of information and communication technology in practical applications, and promote technological innovation and industrial development in related fields.  This special invitation topic invites original papers related to the theme of "Next-generation Information and Communication Technology: Secure, Intelligent, and Efficient" including innovative ideas, concepts, new discoveries, improvements, and new applications. Relevant topics include but are not limited to:· Large-scale data perception and understanding  · Information and communication technology in command and control systems  · Network security and information communication  · Electromagnetic spectrum management and information communication  · Electronic countermeasures and anti-jamming communication technology  · Big data services and information communication |