2023第十一届中国指挥控制大会

特邀专题论坛简介

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| **特邀专题名称**大数据与决策智能理论与技术 |
| **召集人的姓名、职称、单位和邮箱**曾大军（研究员，中国科学院自动化研究所，dajun.zeng@ia.ac.cn）， 左春（总裁，中科软科技股份有限公司, zuochun@iscas.ac.cn），郑晓龙（研究员，中国科学院自动化研究所，xiaolong.zheng@ia.ac.cn），张正（技术总监，中科软科技股份有限公司, zhangzheng@sinosoft.com.cn） |
| 特邀专题简介（背景、目的、意见和内容）随着信息和人工智能技术的高速发展，我们已经处于“大数据”的时代，云计算、物联网等新一代创新信息技术日趋成熟，对“指挥与控制”产生了巨大的影响。决策者面临着数量庞大、内容多样、错综复杂的原始信息，要想做出正确的指挥决策，必须对这些原始信息进行综合处理与系统集成，生成可供指挥决策使用的知识。指挥与控制的大数据与决策智能将是人机信息一体化的集成创新。“大数据与决策智能理论与技术“专题论坛可以为国内从事该领域研究的学者和机构打造一个强有力的学术交流平台，促进科学建设与发展，充分发挥本学科在“指挥与控制”领域的重要作用，有力增强“指挥与控制”学科在我国经济建设和社会管理信息化等方面发挥更大的作用。本特邀专题邀请以下与“大数据与决策智能理论与技术”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：* 大规模数据感知与理解
* 多模态数据检索与分析
* 大数据驱动的隐私与安全
* 大数据可视分析新技术
* 大数据驱动的智能决策
* 数据和知识驱动的决策智能
* 多源异构数据建模与集成技术
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**C2-China 2022**

**Invited Session Summary**

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| **Title of Session**Big Data and Decision Intelligence  |
| **Name, Salutation, Affiliation and Email of Organizers**Dajun Zeng (Professor, Institute of Automation, Chinese Academy of Sciences, dajun.zeng@ia.ac.cn), Chun Zuo (CEO，Sinosoft Co., Ltd，zuochun@iscas.ac.cn)，Xiaolong Zheng (Professor, Institute of Automation, Chinese Academy of Sciences, xiaolong.zheng@ia.ac.cn), Zheng Zhang (CTO，Sinosoft Co., Ltd，zhangzheng@sinosoft.com.cn) |
| **Details of Session (background, purpose, significance and scope)**With the rapid development of information and artificial intelligence related technologies, the new generation of innovative big data technologies have been emerging and been widely applied into many significant domains, which had a huge impact on "command and control". Users have been faced with a huge amount of original information with diverse contents and intricate contents. In order to make correct command decisions, the original information must be comprehensively processed and system integrated to generate knowledge that can be used for command and decision-making. The big data and decision intelligence of command and control will be the integrated innovation of man-machine information integration. The "Big Data and Decision Intelligence" forum can create a strong academic exchange platform for domestic scholars and institutions engaged in research in this field, promote scientific construction and development in the field of "command and control". It provides a significant insight in strengthening the "command and control" discipline to play a greater role in economic development and social management.This special topic invites the following original papers related to the theme of "Big Data and Decision Intelligence " containing innovative ideas, concepts, new discoveries, improvements, and new applications. Topics include but are not limited to:· Large-scale data perception and understanding· Multimodal data retrieval and analysis· Big data-driven privacy and security· New technology of big data visual analysis· Big data-driven Intelligent decision-making · Data and knowledge-driven decision intelligence· Modeling and Integration Technology of Multi-Source Heterogeneous Data |