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**  智能指挥控制理论与应用 |
| **召集人的姓名、职称、单位和邮箱**  刘忠，教授，国防科技大学，liuzhong@nudt.edu.cn  黄金才，教授，国防科技大学，huangjincai@nudt.edu.cn |
| **特邀专题简介（背景、目的、意见和内容）**  近年来，随着数据资源、计算能力和智能算法的快速发展，人工智能技术在众多产业领域取得了瞩目成就。指挥控制是复杂环境下提高决策效率的关键环节，人工智能技术必将深刻影响传统指挥控制的运行方式，大幅提高指控决策的速度和精度，指挥控制智能化是现代战争发展的必然趋势和紧迫需求，也是人工智能技术辅助各类决策的核心所在。  为进一步促进人工智能技术在指挥控制领域的应用，加强广大研究人员的交流，本专题特邀与“智能指挥控制理论与应用”主题相关的，包含新思想、新概念、新发现、新改进以及新应用的原创论文,包括但不限于以下内容：   * 智能博弈 * 态势认知 * 任务规划 * 目标分析选择 * 数字孪生 * 平行仿真 * 知识推理 * 因果推断 * 数据挖掘 * 机器学习 * 分布式学习 * 人机协同 * 软计算 * 近似推理 * 智能决策 * 智能优化 |

**C2-China 2023**

**Invited Session Summary**

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| **Title of Session**  Theory and Applications for Intelligent Command and Control |
| **Name, Salutation, Affiliation and Email of Organizers**  Liu Zhong, Professor, National University of Defense Technology, phillipliu@263.net  Huang Jincai, Professor, National University of Defense Technology，huangjincai@nudt.edu.cn |
| **Details of Session (background, purpose, significance and scope)**  In recent years, with the rapid development of data resource, computing power, and intelligent algorithms, artificial intelligence technology has made remarkable achievements in many industrial fields. Command & control is crucial to improving decision-making efficiency in complex environments. Artificial intelligence technology will profoundly affect the operation mode of traditional command and control, and greatly improve the speed and accuracy of decision-making. Intelligent command and control is an inevitable trend and an urgent need of modern wars. The core of artificial intelligence technology is to assist all kinds of decision-making.  To further promote the application of artificial intelligence technology in command & control and strengthen the scholarly communication of researchers. This topic invites the following issues related to the theme of Intelligent Command and Control Theory and Applications, including new ideas, original concepts, discoveries, novel improvements for new applications. The scope of the call for papers includes but is not limited to the following topics:   * Intelligent game theory * Situational awareness * Mission planning * Target analysis and selection * Digital twins * Parallel simulation * Knowledge reasoning * Causal inference * Data mining * Machine learning * Distributed learning * Soft computing * Approximate reasoning * Intelligent decision-making * Intelligent optimization |