2023第十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**  多域混合态势智能感知与认知 |
| **召集人的姓名、职称、单位和邮箱**  王海鹏，海军航空大学，教授，whp5691@163.com  刘颢，中船709所，研究员，liuhao2020@sjtu.edu.cn  卢国明，电子科技大学，研究员，lugm@uestc.edu.cn  洪丹枫，中科院空天院，研究员，hongdf@aircas.ac.cn  王伟伟，中国空间技术研究院西安分院，研究员，www\_xidian@163.com  赵文达，大连理工大学，副教授，zhaowenda@dlut.edu.cn |
| **特邀专题简介（背景、目的、意见和内容）**  随着海洋感知装备从近海走向远海，以及智能化信息处理技术的广泛应用，天、空、岸、海、潜等多域混合态势感知与认知技术取得了长足发展。海上各类有人、无人信息系统初步具备对一个或两个领域感知信息的融合处理能力，在边缘智能硬件的支撑下，能够开展新的智能化态势认知技术研究。本特邀专题的目的在于促进多域混合态势智能感知与认知的新概念、新理论、新技术发展，为相关领域专家、学者和工程技术人员提供交流平台。  本特邀专题邀请以下与“多域混合态势智能感知与认知”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。   * 态势时空知识图谱构建及推理 * 海上多域混合态势感知 * 可解释性海上态势认知 * 无人态势感知与认知 * 海上态势感知与认知智能计算加速 * 海上态势目标意图识别 * 海上态势目标分群及体系布势认知 |

**C2-China 2023**

**Invited Session Summary**

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| **Title of Session**  Intelligent Perception and Cognition for the Multi-domain Hybrid Situation |
| **Name, Salutation, Affiliation and Email of Organizers**  Haipeng Wang, Naval Aeronautical University, Professor, whp5691@163.com  Hao Liu, Wuhan Digital Engineering Institute, Researcher, liuhao2020@sjtu.edu.cn  Danfeng Hong, Aerospace Information Research Institute, Chinese Academy of Sciences, Researcher, hongdf@aircas.ac.cn  Weiwei Wang,Professor，China Academy of Space Technology(Xi’an)，www\_xidian@163.com  WendaZhao,DalianUniversityofTechnology(DUT)，AssociateProfessor,zhaowenda@dlut.edu.cn  Guoming Lu, University Of Electronic Science And Technology Of China, Associate Professor, lugm@uestc.edu.cn |
| **Details of Session (background, purpose, significance and scope)**  With the deployment of ocean perception equipment from coastal waters to the distant sea, and the widespread application of intelligent information processing technology, the perception and cognition for the multi-domain hybrid situation in sky, air, shore, sea, and submarine have made significant progress. Various types of manned and unmanned information systems begin to have the ability to fuse and process perception information in one or two fields at sea. With the support of edge intelligent hardware, new research on intelligent perception and cognition technologies are underway. To promote the development of new concepts, theories, and technologies of intelligent perception and cognition for the multi-domain hybrid situation, and provide an exchange platform for experts, scholars, and engineers in related fields, we are honored to publish this special issue.  This special issue invites original contributions, related to the theme of "Intelligent Perception and Cognition for Multi-domain Hybrid Situation", in innovative ideas, concepts, discoveries, improvements, and new applications. These include but are not limited to   * Construction and Inference of Spatiotemporal Situation Knowledge Graph * Multi-domain Hybrid Situation Perception at Sea * Interpretable Situation Cognition * Unmanned Situation Perception and Cognition at Sea * Intelligent Computing Acceleration for Situation Perception and Cognition at Sea * Situation Target Intention Recognition at Sea * Cognition of Situation Target Grouping and System Layout at Sea |