

ICICN2026 Track 12 Description

Special Session Basic Information:

专栏题目 Session Title	中文：机器学习与人工智能 英文：Machine Learning and Artificial Intelligence
专栏介绍和征稿主题 Introduction and topics	<p>中文：机器学习与人工智能是一门旨在感知、综合和推理信息，以模拟、延伸和扩展人类智能的技术科学。机器学习与人工智能致力于理解智能的本质，并与人机交互、自动认知和智能行为等领域建立紧密联系。该领域的研究包括机器人学、类脑计算、语音识别、计算机视觉、自然语言处理、专家系统等。</p> <p>本专题聚焦于人工智能的基础领域（如深度学习、统计学习、自然语言处理、计算机视觉等），以及人工智能在重要应用领域（如医疗健康、遥感、自动驾驶等）中的前沿技术方向或关键技术。感兴趣的主题包括但不限于：</p> <ul style="list-style-type: none">- 深度学习与神经学习- 自然语言处理- 计算机视觉- 数据挖掘- 神经科学与认知科学- 进化学习与自然启发式学习 <p>英文：Machine Learning and Artificial Intelligence are technical science to perceive, synthesize, and infer information for simulating, extending, and expanding human intelligence. Machine Learning and Artificial Intelligence attempt to understand the nature of intelligence and tie in deep connections to human-computer interaction, automated cognition, and intelligent behavior. Research in this field includes robotics, neuromorphic computing, speech recognition, computer vision, natural language processing, expert systems, etc.</p> <p>This Track on Machine Learning and Artificial Intelligence focuses on fundamental fields of AI (e.g., deep learning, statistical learning, natural language processing, computer vision, etc.), cutting-edge technical areas of AI or techniques in the context of important application domains (e.g., healthcare, remote sensing, automated driving, etc.). Interested topics included (but not limited to):</p> <ul style="list-style-type: none">- Deep learning and neural learning- Natural language processing,- Computer vision- Data mining- Neuroscience and cognitive science- Evolutionary learning and nature inspired learning

Track Chair(s):

	姓名 Name	王聪 Cong Wang
	称谓 Prefix	副教授/Associate Professor
	部门 Department	数学与统计学院/School of Mathematics and Statistics
	单位 Organization	西北工业大学/Northwestern Polytechnical University
	城市/地区 City/Region	中国西安/Xi'an, China

Organizer's Brief Biography

中文：王聪，1992年7月生，江苏丰县人，陕西省青联委员，西北工业大学副教授/研究员、博士生导师，国家级创新人才，智能机器视觉处理团队（iMVP）负责人。曾先后在阿尔伯塔大学、南洋理工大学和新加坡国立大学联合培养。主要研究方向为智能机器视觉、复杂域图像分析与处理、人工智能的数学基础。近5年，主持国家自然科学基金数学天元基金重点项目、面上项目、青年项目、科技创新2030-“新一代人工智能”重大项目子课题、教育部春晖计划合作科研项目、“HY行动”成果转化应用项目等17项纵向课题和5项企业委托横向课题，以第一作者或通讯作者身份发表学术论文60余篇，其中IEEE汇刊论文30余篇，出版英文学术专著1部、教材1部、Book Chapter 1章，申授国家发明专利10余项。荣获陕西省优秀博士学位论文、中国图象图形学学会优秀博士学位论文提名奖、IEEE ICICN最佳青年科学家奖，指导研究生连续两次获IEEE ICICN最佳学生论文奖。入选中国博士后创新人才支持计划、教育部春晖计划、中国科协优秀中外青年交流计划、陕西高校优秀青年人才支持计划、陕西省科协青年托举人才计划和西北工业大学翱翔人才计划。担任人工智能与模糊系统领域顶级期刊《IEEE Transactions on Fuzzy Systems》等10余个国际期刊的编委和30余个国际会议的程序委员会主席、出版主席、分会主席；兼任中国航空学会飞行汽车分会委员、中国自动化学会模式识别与机器智能专委会委员、中国电子学会虚拟现实分会委员、陕西省临地安防学会秘书长、陕西省高层次人才发展促进会副秘书长、陕西省青年科技工作者协会副秘书长和中国青年科技工作者协会会员。

英文：Dr. Cong Wang received the BS degree in automation and the MS degree in mathematics from Hohai University, Nanjing, China, in 2014 and 2017, respectively and the Ph.D. degree in mechatronic engineering from Xidian University, Xi'an, China, in 2021. He is currently an Associate Professor with the School of Mathematics and Statistics, Northwestern Polytechnical University, Xi'an. He was a visiting Ph.D. Student with the Department of Electrical and Computer Engineering, University of Alberta, Edmonton, AB, Canada, and the Department of Electrical and Computer Engineering, National University of Singapore, Singapore. He was also a research assistant with the School of Computer Science and Engineering, Nanyang Technological University, Singapore. His current research interests include pattern recognition, high-dimensional image analysis, as well as fuzzy theory and its applications. He currently has a textbook, a monograph, 10+ patents and more than 60 papers (30+ in IEEE Transactions) and hosts more than 10 research projects. He is funded by the China National Postdoctoral Program for Innovative Talents and the Excellent Chinese and Foreign Youth Exchange Program of the China Association for Science and Technology. He is an editorial board member of 10+ international journals like IEEE TFS and a program committee chair, track chair, publication chair, publicity chair, program committee member, and technical committee member of 60+ international conferences. He is also a frequent reviewer of 70+ international journals, including a number of the IEEE Transactions and many international conferences.



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Organizer's Brief Biography

中文：焦昶哲，现为西安电子科技大学人工智能学院华山学者菁英副教授，博士生导师。本科和硕士毕业于西安电子科技大学自动控制专业，后经国家公派于2017年获得美国密苏里大学博士学位，并于美国南加州大学凯克医学院完成了博士后研究。长期致力于弱监督学习人工智能理论与方法研究，在受限条件下弱标记数据的目标特性学习与检测问题取得了一些理论与应用成果。主持和承担了国家自然科学基金项目，国家科技委重点研发课题，陕西省重点研发计划等多项科研任务，在国际有影响力的期刊和会议发表论文六十多篇，著有专著两部，曾获得IEEE IGARSS年度最佳论文提名，IEEE ICICN最佳组织奖，美国AAPM协会Norm Baily奖等荣誉。

英文：Dr. Jiao, Changzhe is currently a "Huashan Scholar" Associate Professor and Doctoral Supervisor with the School of Artificial Intelligence, Xidian University. He received his Bachelor's and Master's degrees in Automatic Control from Xidian University, and later obtained his Ph.D. from the University of Missouri in 2017, funded by the China Scholarship Council. He also completed his postdoctoral training at the Keck School of Medicine, University of Southern

California. His research focuses on the theory and methods of weakly supervised learning in artificial intelligence, contributing to the learning and detection of target characteristics in weakly labeled data under constrained conditions. His research has been funded by the National Natural Science Foundation of China, key project of the National Science and Technology Commission, etc. He has published over sixty papers in international journals and conferences, and authored two books. The honors he has received including nomination for the Best Paper Award of IEEE GRSS Society, the IEEE ICICN Best Organization Award, and the Norm Baily Award from the American Association for the Advancement of Science (AAPM).