

2022 2nd International Conference on Computer, Control and Robotics

Shanghai, China | January 6-8, 2022

ICCCR 2022



The boundaries between Computer Science, Control Technologies, and Robotics are continuing to be connected. Computers are humanized and a large number of cyber-physical systems are being developed to act upon the physical world. Control technologies provide the basic tools used by robot creators to identify strategies, and optimizers to achieve the goals of the robotic enterprise. Robotic are versatile computing machines with high social impact potential, such as enhance transportation safety, reduce agricultural pesticide use, and improve public safety and crime-fighting efficacy, among other things. Welcome to attend ICCCR 2022!

Paper Publication ▶▶

For accepted papers, it will be published in the ICCCR 2022 Conference Proceedings, which will be **indexed by Ei Compindex, Scopus and other main academical databases.**

SUBMISSION LINK: <http://www.easychair.org/conferences/?conf=iccr2022>

History ▶▶

2021 IEEE International Conference on Computer, Control and Robotics was converted to a virtual conference. The proceeding has been published in IEEE Xplore and indexed by Ei & SCOPUS (ISBN: 978-1-7281-9034-1).

Call for paper ▶▶ <http://www.iccr.org/cfp.html>

Topic 1 Control Systems and Optimization (Topics are interested but not limited to the following)

- ▶ Genetic Algorithms
- ▶ Fuzzy Control
- ▶ Decision Support Systems
- ▶ Machine Learning in Control Applications
- ▶ Knowledge-based Systems Applications
- ▶ Hybrid Learning Systems
- ▶ Distributed Control Systems

Topic 2: Robotics (Topics are interested but not limited to the following)

- ▶ RAMS abilities of robotic systems
- ▶ Hardware modeling and abstraction
- ▶ Resource awareness
- ▶ Sensor fusion, integration
- ▶ Place recognition, localization
- ▶ Image Processing
- ▶ Vision, Recognition and Reconstruction
- ▶ Robot Design, Development and Control
- ▶ Control and Supervision Systems
- ▶ Telerobotics and Teleoperation
- ▶ Vehicle Control Applications
- ▶ Industrial Networks and Automation

Topic 3: Computer Science (Topics are interested but not limited to the following)

- ▶ Formal methods for analysis and design
- ▶ Software architectures
- ▶ Middleware infrastructures
- ▶ Model-driven engineering
- ▶ Component-based engineering
- ▶ Natural language understanding
- ▶ Machine learning
- ▶ Reasoning
- ▶ Multi agent system

Keynote Speakers ▶▶



Prof. I-Ming Chen (IEEE Fellow, ASME Fellow, Fellow of Singapore Academy of Engineering)
Nanyang Technological University, Singapore



Prof. Biao Huang (IEEE Fellow, Fellow of the Canadian Academy of Engineering, Fellow of the Chemical Institute of Canada)
University of Alberta, Canada



Prof. Yang Shi (IEEE Fellow, ASME Fellow, CSME Fellow, Fellow of Engineering Institute of Canada)
University of Victoria, Canada

Important Dates ▶▶

Paper Submission	August 15th, 2021
Notification Date	September 15th, 2021
Registration Deadline	September 30th, 2021



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2022年第二届 计算机，控制和机器人学国际会议

中国·上海 | 2022年1月6-8日

ICCCR 2022



2022年第二届计算机，控制和机器人学国际会议将于2022年1月6-8日在中国上海举办。该会议旨在为计算机，控制和机器人学等领域的专家学者建立一个广泛有效的学术交流平台，以便让参会人员及时了解行业发展动态、掌握最新技术，快速、准确地解决当前面临的难题。大会将安排主旨报告，特邀报告，以及数个专题讨论会(形式包括口头报告，海报报告，视频报告，在线报告等)。在此，我们诚挚邀请您的参加，希望能与您在上海相会！

会议论文集

大会录用论文将收录到 ICCCR 2022 会议论文集，并 EI Compendex 和 Scopus 检索。欢迎大家踊跃投稿！

在线投稿 : <http://www.easychair.org/conferences/?conf=icccr2022>

会议历史

ICCCR 2021于2021年1月8-10日以网络会议形式成功召开。

ICCCR 2021论文集于会后一个月上线并被EI核心及SCOPUS双检索。(ISBN: 978-1-7281-9034-1)

征稿主题 <http://www.icccr.org/cfp.html>

主题一：控制系统与优化 (包含但不限于以下主题)

- ▶ 遗传算法
- ▶ 混合学习系统
- ▶ 模糊控制
- ▶ 分布式控制系统
- ▶ 决策支持系统
- ▶ 进化计算和控制
- ▶ 机器学习在控制应用
- ▶ 优化算法
- ▶ 以知识为基础的系统及应用

主题二：机器人 (包含但不限于以下主题)

- ▶ 机器人系统的RAMS能力
- ▶ 资源意识
- ▶ 硬件建模和抽象
- ▶ 车辆控制应用
- ▶ 远程机器人和远程操作
- ▶ 工业网络和自动化
- ▶ 传感器融合、集成
- ▶ 目标识别、跟踪
- ▶ 位置识别，本地化
- ▶ 机器人认知
- ▶ 机器人运动学、动力学
- ▶ 图像处理
- ▶ 视觉、识别和重建
- ▶ 人机接口
- ▶ 机器人设计、开发与控制
- ▶ 网络机器人
- ▶ 控制和监督系统

主题三：计算机科学 (包含但不限于以下主题)

- ▶ 分析和设计的形式化方法
- ▶ 多媒体计算
- ▶ 软件架构
- ▶ 物联网
- ▶ 中间件基础设施
- ▶ 虚拟现实
- ▶ 模型驱动工程
- ▶ 计算机安全
- ▶ 基于组件的工程
- ▶ 人机交互
- ▶ 自然语言理解
- ▶ 解决问题
- ▶ 机器学习
- ▶ 语义计算
- ▶ 多agent系统

大会主讲人



Prof. I-Ming Chen (IEEE Fellow, ASME Fellow, Fellow of Singapore Academy of Engineering)

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Prof. Biao Huang (IEEE Fellow, Fellow of the Canadian Academy of Engineering, Fellow of the Chemical Institute of Canada)

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Prof. Yang Shi (IEEE Fellow, ASME Fellow, CSME Fellow, Fellow of Engineering Institute of Canada)

重要时间

投稿截止	2021年8月15日
通知时间	2021年9月15日
注册截止日期	2021年9月30日



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