

The conference program adheres to CMT +8.

October 28th Host Prof. Yang Li
Beihang University, China

Ao'erliang Hall

09:00 Welcome Address
Prof. Yang Li
Beihang University

09:15 Intelligent Robots: From Concept to Industry
Prof. Jianrong Tan
Zhejiang University, China

09:55 Optimal Safe-critical Autonomy for Multi-agent Systems: Making Autonomous Vehicles a Reality
Prof. Christos G. Cassandras
Boston University, USA

10:35 Coffee Break & Group Photo

11:05 TBD
Prof. Yang Li
Beihang University, China

11:35 Lunch Break 二楼西餐厅

Ao'erliang Hall Host Prof. Gang Wang
Beijing Institute of Technology, China

14:00 Oral Presentation
Weiran Wu, Beijing Institute of Technology, China
Reinforcement Learning-based Trajectory Planning for Cooperative Source Seeking

14:10 Oral Presentation
Weiran Wu, Beijing Institute of Technology, China
Formation Planning with Multi-agent Trajectory Prediction

14:20 Oral Presentation
Yinmin Sun, Southwest Jiaotong University, China
AB-LSTM: Long-Short Term Memory with Artificial Bee Colony for Predicting Coal Mine Gas Concentration

14:30 Oral Presentation
R066 Dechang Zhang, Xihua University, Chengdu, China
Path Tracking Method of Forklift AGV Based on Fuzzy Adaptive PID

14:40 Oral Presentation
R031 Ruonan Yun, Beijing University of Technology, China
Design of PMSM Controller with Continuous Function Reaching Law and Integral Sliding Surface

14:50 Oral Presentation
R054 Mingming Shi, Unit No 32322. Urumqi 830002, China
Research on the Development Status and Future Trends of Foreign Unmanned Ground Equipment

15:00 Oral Presentation
R034 Dongyu Tian, Xi'an Polytechnic University, China
Sliding Mode Active Disturbance Rejection Control for Robotic Manipulators Considering Saturation and Dead Zone

15:10 Oral Presentation
R041 Adiya Bao, Shenyang University of Technology, China
A Lyapunov-Based Small-Gain Theorem for Interconnected Nonuniform in Time Input-to-State Stable Systems

15:20 Efficient Computational Approaches and Their Applications
Prof. Tingwen Huang
Texas A&M University, Qatar

16:00 Coffee Break

16:30 Bayesian Reinforcement Learning for Robot Control: Bayes meets Bellman meets Lyapunov
Assoc. Prof. Wei Pan
University of Manchester, UK

17:10 Oral Presentation
R060 Jiacheng Yun, Beihang University, China
Swin Transformer Encoder and Local Attention Network via Transfer Learning Strategy for Retinal Vessel Segmentation

17:20 Oral Presentation
R056 Kun Yang, Beijing Institute of Technology, China
A Deep Reinforcement Learning Tracking Algorithm Based on Task Decomposition

17:30 Oral Presentation
R065 Haiyang Huang, Intelligent Driving Development Department, China
Path Tracking for Intelligent Vehicle considering Steering Delay Characteristic

17:40 Award Ceremony

17:50 Closing Address
Prof. Xiaobo Zhang
Southwest Jiaotong University, China

Parallel Sessions Host Prof. Yuzhu Guo
Beihang University University, China

Zhiyi Hall

13:50 Oral Presentation
R050 Zhicheng Liao, Central South University, China
Mixed Node and Edge GraphSAGE Based Schema Encoding for Text-to-SQL

14:00 Oral Presentation
R044 Xiangqing Li, Harbin Institute of Technology, China
Amplitude Identification for Ultrasonic Transducer Based on Instantaneous Current

14:10 Oral Presentation
R033 Yuxiang Bian, State Grid Information and Telecommunication Branch, China
Fuzzy Analytic Hierarchy Process Based Health Evaluation of Business Systems

14:20 Oral Presentation
R048 Peng Chen, Southwest Jiaotong University, China
An Assist-as-Needed Controller with Fault-tolerant Region for Safe and Effective Training on End-effector Upper Limb Rehabilitation Robot

14:30 Oral Presentation
R024 Qian Zhao, Sichuan Normal University, China
Research on An Improved Collaborative Filtering Algorithm Based on Multi-Community Integration

14:40 Oral Presentation
R021 Xu Liu, Sichuan Normal University, China
Modeling a Cross-domain Distributed Personnel Records System Based on Zookeeper and Erasable Bloom Filters

14:50 Oral Presentation
R026 Peng Lu, Sichuan Normal University, China
A Personalised Course Recommendation Algorithm Based on Global Directed Graphs and User Behavioural Sequences

15:00 Oral Presentation
R022 Ziying Zhang, Sichuan Normal University, China
A Study on Redis-Based Aided Caching Pattern for Relational Database Hotspot Data

15:10 Oral Presentation
R053 Yifan Wang, Beihang University, China
Multi-Scale-Rhythm Attention Feature Contrastive Learning for Epileptic Seizure Prediction

15:20 Oral Presentation
R042 Yajun Zhang, Shenyang University of Technology, China
Laser Weld Defect Detection Based on Laser Vision and Region Growth

15:30 Oral Presentation
R038 Zhaoliang Xu, Beihang University, China
Temporal-Spectral Generative Adversarial Network Based Multi-Level Consistency Learning for Epileptic Seizure Prediction

15:40 Oral Presentation
R057 Yunyang Wu, Southwest Jiaotong University, China
YOLO-CD YOLOv5-Based Neural Network for Empty Position Recognition of Dispatch Center

15:50 Oral Presentation
R049 Weidong Yan, Beihang University, China
An IoMT Based Epileptic Seizure Predictor Using Dual-Path Temporal-Spectral Encoded Spatial Dynamic Graph Convolution Network

16:00 Coffee Break

16:25 Oral Presentation
R055 Wenkang Liu, Beihang University, China
Body Partition Refinement Dynamic Graph Convolutional Network for Skeleton-based Action Recognition

16:35 Oral Presentation
R032 Peng Chen, Southwest Jiaotong University, China
CNN Structure Optimization Based on MI-EEG Channel Information Density

16:45 Oral Presentation
R015 Xiaoming Zhang, Southwest Jiaotong University, China
MR Image Super-Resolution via Diffusion Model for Large Up-Scale Factors

16:55 Oral Presentation
R039 Mingyi Sun, Beihang University, China
A Channel-Augmented Multi-Domain Graph Convolutional Network for Fatigue Driving Detection

17:05 Oral Presentation
R004 Daifeng Zhang, Qilu University of Technology, China
Self-tuning Speed Tracking for Autonomous Vehicles Based on Cascaded GRU Predictive Control

17:15 Oral Presentation
R012 Maosheng Yang, Shanghai University, China
Design and Trajectory Planning of an Underwater Delta Robot for Marine Harvest

17:25 Oral Presentation
R013 Lin Xiao, Shanghai University, China
Real-time Visual Perception for Rapid Grasping of Underwater Delta Robot



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SOUTHWEST JIAOTONG UNIVERSITY



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R002 *Poster*
Dandan Lu, Southwest University of Science and Technology, China
Intelligent Manufacturing Education and Tutoring Experimental Platform Studies Based on Reconfigurable Module

R003 *Poster*
Yongxing Liu, Huazhong University of Science and Technology, China
A Single-point Pose Constraint Based 6R Robot Kinematic Calibration Method Through Monocular Vision

R011 *Poster*
Ce Chen, Shanghai University, China
A Variable Stiffness Soft Gripper Based on Shape Memory Polymer and Giant Electrorheological Fluidic Layer Jamming

R014 *Poster*
Yanyan Fang, Beijing Institute of Technology, China
DS-SGAN: Driving Style-Guided Spatial-Graph Attention Network for Trajectory Prediction of Vehicle

R030 *Poster*
Bo Wang, The Second Research Institute of Civil Aviation Administration of China, China
Comprehensive Evaluation Method for The Visibility Ability of ATCT Based on BP Network

R046 *Poster*
Yating Chen, Hunan University of Science and Technology, China
Research on D3QN-PER Path Planning Method Based on LSTM-GRU Composite Model

R047 *Poster*
Wangqi Sheng, Hunan University of Science and Technology, China
Steel Surface Defect Detection Based on Improved YOLOv8 Algorithm

R036 *Poster*
ChangHao Zhang, Beihang University, China
A Vision-Only Drone Formation Waypoint Navigation Method

R061 *Poster*
Huihui Guo, Hunan University of Science and Technology, China
Lightweight Underwater Target Detection Algorithm Based on Improved YOLOv7

R063 *Poster*
Qiang Zhou, Beijing University of Aeronautics and Astronautics, China
Technology of Mobile Robot Localization Assisted by QR Codes

R069 *Poster*
Yongteng Sun, Hohai university, Nanjing, China
Recognition of Loosening Position of Reactor Windings Based on FBG Signal

R009 *Poster*
Xu Ji, Guilin University of Electronic Technology, China
MAAS-Net: Efficient Multi-Scale Attention Aggregation Supervision Network for Tire Tread Segmentation

R1005 *Poster*
Shu Wu, Beijing University of Posts and Telecommunications, China
Transformer Text Recognition Based on Deep Learning

R006 *Poster*
Chuanhui Zhang, Northern Information Control Research Institute Group limited corporation, China
Equipment Utilization and Maintenance Task Assignment

R064 *Poster*
Shiyu Guo, East China University of Science and Technology, China
Multiple Multiplicative Neurons Model for Time Series Prediction

Online (Webex)

9:00-11:00 am and 2:00-4:00 pm

October 27th, 2023:

Technical Test Session: [Click here](#)

<https://hksra.my.webex.com/hksra.my/j.php?MTID=mb32d18bf08c98f5d8e705c388366f205>

Meeting number: 2643 535 1634

Password: VcwsCGDG936

08:30-18:00 October 28th, 2023:

Conference Session: [Click here](#)

<https://hksra.my.webex.com/hksra.my/j.php?MTID=mf70347246c08cb002ae14d0a67cc763c>

Meeting number: 2641 019 0676

Password: rjT2HtXPx73

Onsite Conference Venue Address:

Howard Johnson Zunyue Hotel Chengdu: 528 Yingbin Ave, Jinniu District, Chengdu, Sichuan Province, China

线下会议地址: 成都尊悦豪生酒店(中国四川省成都市金牛区迎宾大道 528 号)

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