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Content List

Technical Program for Friday August 9, 2024

FR-1400T1 Award Session 1 (Regular Sessions)	Renyue Ballroon
14:00-15:00	FR-1400T1.
	ed on Probabilistic Motor Primitives for Upper Limb Rehabilitation Training, pp. 1-6.
Xie, Peimin	South China University of Technology
Shuangyuan, Huang	South China University of Technology
Lv, Chen	South China University of Technology
Xie, Longhan	South China University of Technology
14:00-15:00	FR-1400T1.2
	ork for Android Malware Classification, pp. 7-13.
Yang, Yi	Software Engineering, Sichuan University
Wu, Huyu	Sichuan University
Wang, Yanzhe	SiChuan Universit
Wang, Peng	Sichuan University
14:00-15:00	FR-1400T1.3
	Skill Learning for Robotic Manipulation, pp. 14-19.
Tan, Runjia	Nanyang Technological University
Lou, Shanhe	Nanyang Technological University
Yanxin, Zhou	Nanyang Technological University
Lv, Chen	Nanyang Technological University
14:00-15:00	FR-1400T1.4
	e PET Image Reconstruction Via Dose-Aware Token Swap, pp. 20-25.
Cui, Jiaqi	Sichuan University
Zeng, Pinxian	Sichuan University
Xu, Yuanyuan	Sichuan University
Wu, Xi	Chengdu University of Information Technology
	- 3 - ,
Zhou. Jiliu	Sichuan University
Zhou, Jiliu Wang, Yan	•
Wang, Yan	Sichuan University
Wang, Yan FR-1400T2	Sichuan University Sichuan University Tianle Ballroom
Wang, Yan FR-1400T2 Image Processing & Visual Perception	Sichuan University Tianle Ballroom (Regular Sessions)
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.1
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Till	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.1 ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31.
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Till Jiang, Li	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.1 ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Till Jiang, Li Cui, Jiaqi	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.1 ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise To Jiang, Li Cui, Jiaqi Xu, Yuanyuan	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.1 ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise To Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.* ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Tri Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.1 ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Tri Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.1 ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Till Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.1 Fansformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University Sichuan University FR-1400T2.2
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Till Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A	Tianle Ballroom (Regular Sessions) FR-1400T2.* ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University, Sichuan University, Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University Sichuan University Sichuan University FR-1400T2.2
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Till Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A Tong, Yanxin	Tianle Ballroom (Regular Sessions) FR-1400T2.* ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University, Sichuan University, Sichuan University Chengdu University of Information Technology Sichuan University, Hangzhou Dianzi University,
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Till Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A Tong, Yanxin Xu, Jiale	Tianle Ballroom (Regular Sessions) FR-1400T2.* ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University Sichuan University FR-1400T2.2 Adversarial Networks for Shadow Puppet Generation, pp. 32-38. Hangzhou Dianzi University Hangzhou Dianzi University
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Till Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A Tong, Yanxin Xu, Jiale Du, Xuan	Tianle Ballroom (Regular Sessions) FR-1400T2.* ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University Sichuan University FR-1400T2.2 Adversarial Networks for Shadow Puppet Generation, pp. 32-38. Hangzhou Dianzi University Hangzhou Dianzi University Hangzhou Dianzi University
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise To Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A Tong, Yanxin Xu, Jiale Du, Xuan Huang, Jingzhou	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.* ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University Sichuan University FR-1400T2.2 Adversarial Networks for Shadow Puppet Generation, pp. 32-38. Hangzhou Dianzi University Hangzhou Dianzi University Hangzhou Dianzi University Hangzhou Dianzi University
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Tri Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A Tong, Yanxin Xu, Jiale Du, Xuan Huang, Jingzhou Zhou, Houpan	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.* ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University Sichuan University FR-1400T2.2 Adversarial Networks for Shadow Puppet Generation, pp. 32-38. Hangzhou Dianzi University
FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise To Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A Tong, Yanxin Xu, Jiale Du, Xuan Huang, Jingzhou Zhou, Houpan 14:00-15:00 Toward Automated Foot Type Diagnosis	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.* ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University Sichuan University FR-1400T2.* Adversarial Networks for Shadow Puppet Generation, pp. 32-38. Hangzhou Dianzi University
Wang, Yan FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise To Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A Tong, Yanxin Xu, Jiale Du, Xuan Huang, Jingzhou Zhou, Houpan 14:00-15:00 Toward Automated Foot Type Diagnosis 44.	Tianle Ballroom (Regular Sessions) FR-1400T2.* ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University Sichuan University Sichuan University FR-1400T2.* Adversarial Networks for Shadow Puppet Generation, pp. 32-38. Hangzhou Dianzi University
FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise To Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A Tong, Yanxin Xu, Jiale Du, Xuan Huang, Jingzhou Zhou, Houpan 14:00-15:00 Toward Automated Foot Type Diagnosis 44. Wu, Sihan	Tianle Ballroom (Regular Sessions) FR-1400T2.* ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University, Hangzhou Dianzi University, Hangz
FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise Tradiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A Tong, Yanxin Xu, Jiale Du, Xuan Huang, Jingzhou Zhou, Houpan 14:00-15:00 Toward Automated Foot Type Diagnosis 44. Wu, Sihan Wang, Yubing	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.1 ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University FR-1400T2.2 Adversarial Networks for Shadow Puppet Generation, pp. 32-38. Hangzhou Dianzi University Sichuan University Hangzhou Dianzi University
FR-1400T2 Image Processing & Visual Perception 14:00-15:00 SCFormer: Spatial and Channel-Wise To Jiang, Li Cui, Jiaqi Xu, Yuanyuan Wu, Xi Zhou, Jiliu Wang, Yan 14:00-15:00 SP-GAN: Cycle-Consistent Generative A Tong, Yanxin Xu, Jiale Du, Xuan Huang, Jingzhou Zhou, Houpan 14:00-15:00 Toward Automated Foot Type Diagnosis 44. Wu, Sihan	Sichuan University Tianle Ballroom (Regular Sessions) FR-1400T2.1 ransformer with Contrastive Learning for High-Quality PET Image Reconstruction, pp. 26-31. Sichuan University Sichuan University Sichuan University Chengdu University of Information Technology Sichuan University Sichuan University Sichuan University Sichuan University

Zhao, Yang Independent Researcher Zhenzhou Jingyun Technology Meng, Xin Wu, Jibin The Hong Kong Polytechnic University 14:00-15:00 FR-1400T2.5 Application of Cycle-GAN-Based Water Surface Highlight Removal Network in Inland Water Scenes, pp. 51-56. Lin, Jianhua ChongQing Jiaotong University Zhang, Lin Chongqing Jiaotong University FR-1500T1 Renyue Ballroom Award Session 2 (Regular Sessions) 15:00-16:00 FR-1500T1.1 NeuROSym: Deployment and Evaluation of a ROS-Based Neuro-Symbolic Model for Human Motion Prediction, pp. 57-62. Mghames, Sariah University of Lincoln Castri, Luca University of Lincoln Hanheide, Marc University of Lincoln Bellotto, Nicola University of Padua 15:00-16:00 FR-1500T1.2 3D Shape Reconstruction Algorithm for Interventional Catheter Based on HPO-BPNN (I), pp. 63-68. Li, Tianliang Wuhan University of Technology Zhu, Yongwen Wuhan University of Technology Song, Zhenzhen Wuhan University of Technology Bin, Wang Zhongnan Hospital of Wuhan University 15:00-16:00 FR-1500T1.3 Sea-U-Dragon: A Lightweight Unmanned Underwater Vehicle for Robot-Environment Interaction (I), pp. 69-74. Chinese University of Hong Kong Gao, Songqun Yan, Ruixin The Chinese University of Hong Kong Zhao, Zuoquan The Chinese University of Hong Kong Ding, Wendi The Chinese University of Hong Kong Dou, Minghao The Chinese University of Hong Kong Chinese University of Hong Kong Chen, Ben M. 15:00-16:00 FR-1500T1.4 A Novel Coplanar Capacitive Micro-Displacement Sensor Combining Microfluidic Channels for Bridge Health Monitoring, pp. 75-80. Zhou, Yushan Zhejiang University Ding, Minghao Northwestern Polytechnical University Zhu, Ziying Zhejiang University Su, Shanqian Zhejiang University Chi, Haozhen Zhejiang University Cao, Yunqi Zhejiang University Tianle Ballroom FR-1500T2 Rehabilitation Technologies (Regular Sessions) 15:00-16:00 FR-1500T2.1 T-S Fuzzy-Model-Based Tracking Control of Lower Limb Exoskeleton Rehabilitation Robot (I), pp. 81-86. Chen, Ming Zhejiang University of Technology Luo, Xingzhou Zhejiang University of Technology Zhejiang University of Technology Wang, Xifeng Liu, Huaqing Zhejiang University of Technology Mo, Yibo Zhejiang University of Technology 15:00-16:00 FR-1500T2.2 A Real-Time Feedback Rehabilitation Training Pen Using Flexible Thin Film Pressure Sensors for Stroke-Induced Hand Dysfunction, pp. 87-92. Zhao, Cuina ZheJiang University Zhejiang University Hui, Lyu Xia, Qinghua Zhejiang University Lin, Zichao NingboTech University Li, Wen Ningbo Tech University Chen, Yu Ningbo Tech University Yujie, Peng Zhejiang University Al-Shaqdari, Omar Zhejiang University

Independent Researcher

Xu, Di

	FR-1500T2.3
ower Limb Exoskeleton Robot Control Design Based on TP Transformation	
Sun, Zhe Yang, Xicheng	Zhejiang University of Technology
Liu, Feng	Zhejiang University of Technology Ninbo Tech University
5:00-16:00	FR-1500T2.4
lesign and Performance Verification of a Hybrid Robotic System for Hand a	
Huang, Hao	South China University of Technology
Chen, Yan	South China University of Technology
Liu, Shuoyu	South China University of Technology
Xie, Longhan	South China University of Technology
5:00-16:00	FR-1500T2.5
Prediction of Lower Limb Exoskeleton Gait Trajectories Based on Plantar Pr	* *
Li, Yaning	South China University of Technology
Huang, Guowei	South China University of Technology
Lv, Chen	South China University of Technology
Xie, Longhan	South China University of Technology
R-1630T1	Renyue Ballroom
ward Session 3 & Late Breaking Reports (Regular Sessions) 6:30-17:30	FR-1630T1.1
o.30-17:30 DCNN: A Promising Tool for Simulation-To-Reality UAV Fault Diagnosis, p	
Zhang, Wei	Eastern Institute of Technology, Ningbo
Wang, Shanze	Eastern Institute of Technology, Ningbo, China
Tong, Junjie	National University of Singapore
Liao, Fang	National University of Singapore
Zhang, Yunfeng	National University of Singapore
Shen, Xiaoyu	Eastern Institute of Technology, Ningbo, China
5:30-18:00	FR-1630T1.2
Novel Star-Nose-Inspired Biomimetic Soft Robot for Non-Visual Spatial Ex	
Shan, Qiwei	Zhejiang University
Chi, Haozhen	Zhejiang University
Zhu, Ziying	Zhejiang University
Fan, Shuyu	Zhejiang University
Hou, Dibo	Zhejiang University
Cao, Yunqi	Zhejiang University
0.00.40.00	Znejlang University
6:30-18:00	FR-1630T1.3
ocalization Performance of an Autonomous Forklift in a Warehouse Environ	FR-1630T1.3 nment, pp. 124-131.
ocalization Performance of an Autonomous Forklift in a Warehouse Environ Meng, Wei	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd
ocalization Performance of an Autonomous Forklift in a Warehouse Environ Meng, Wei Lu, Zhengchen	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd
ocalization Performance of an Autonomous Forklift in a Warehouse Environ Meng, Wei Lu, Zhengchen Weng, Chien-Chih	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd
ocalization Performance of an Autonomous Forklift in a Warehouse Environ Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore
ocalization Performance of an Autonomous Forklift in a Warehouse Environ Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
ocalization Performance of an Autonomous Forklift in a Warehouse Environ Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd
ocalization Performance of an Autonomous Forklift in a Warehouse Environ Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd
Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd
Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
ocalization Performance of an Autonomous Forklift in a Warehouse Environment, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu Chen, Xiaohu	FR-1630T1.3 Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
ocalization Performance of an Autonomous Forklift in a Warehouse Environment, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu Chen, Xiaohu Liang, Chao	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
ocalization Performance of an Autonomous Forklift in a Warehouse Environment, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu Chen, Xiaohu Liang, Chao Li, Yinghao	FR-1630T1.3 Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu Chen, Xiaohu Liang, Chao Li, Yinghao Zhang, Zhiyu	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltc Noblelift Intelligent Equipment Co.ltc Noblelift Intelligent Equipment Co.ltc National University of Singapore Noblelift Intelligent Equipment Co.ltc
Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu Chen, Xiaohu Liang, Chao Li, Yinghao Zhang, Zhiyu Shi, Linqiang	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu Chen, Xiaohu Liang, Chao Li, Yinghao Zhang, Zhiyu Shi, Linqiang Zhu, Tingting	FR-1630T1.3 Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu Chen, Xiaohu Liang, Chao Li, Yinghao Zhang, Zhiyu Shi, Linqiang Zhu, Tingting Ang Jr, Marcelo H	FR-1630T1.3 nment, pp. 124-131. Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu Chen, Xiaohu Liang, Chao Li, Yinghao Zhang, Zhiyu Shi, Linqiang Zhu, Tingting Ang Jr, Marcelo H 6:30-18:00	FR-1630T1.3 Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
Meng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu Chen, Xiaohu Liang, Chao Li, Yinghao Zhang, Zhiyu Shi, Linqiang Zhu, Tingting Ang Jr, Marcelo H 6:30-18:00 Factile-Guided Automated Robotic Wiping, pp. 132-137.	FR-1630T1.3 Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd Noblelift Intelligent Equipment Co.ltd National University of Singapore Noblelift Intelligent Equipment Co.ltd
ocalization Performance of an Autonomous Forklift in a Warehouse Environment, Weng, Wei Lu, Zhengchen Weng, Chien-Chih Huang, Zefan Li, Yu Xu, Songyi Zhou, Xuejun Zhong, Suoming Zhu, Baochang Mao, Fujun Yang, Yu Chen, Xiaohu Liang, Chao Li, Yinghao Zhang, Zhiyu Shi, Linqiang Zhu, Tingting	FR-1630T1.3 nment, pp. 124-131.

5:30-18:00	FR-1630T1.11
imultaneous Human Motion Pattern Recognition and Lower-Li	mb Pose Estimation from Sparse Wearable IMUs Via Deep Learning.
Li, Jinxuan	Shanghai Jiao Tong Universit
Zhu, Kezhe	Shanghai Jiao Tong Universit
Li, Kaixiang	Shanghai Engineering Research Center of Servo System
Shull, Peter B.	Shanghai Jiao Tong University
5:30-18:00	FR-1630T1.12
dvanced Techniques in Semiconductor Defect Detection: An O	Overview of Current Technologies and Future Trends.
Zheng, Yu Xun	Kyungpook National University
Chee, KW. (g.H.) A.	Kyungpook National University
5:30-18:00	FR-1630T1.13
imulation and Analysis of MEMS-Based Flexible Capacitive Pr	ressure Sensors with COMSOL.
Ding, Liangxiao	Kyungpook National University
Chee, KW. (g.H.) A.	Kyungpook National University
R-1630T2	Tianle Ballroom
earning, Optimisation & Planning (Regular Sessions)	
Organizer: Chen, Bo	Zhejiang University of Technology
Organizer: Sun, Chao	NTU
Organizer: Wang, Jianzheng	Zhejiang University of Technology
3:30-17:30	FR-1630T2.
tegrating Vision Localization and Deep Reinforcement Learnii	ng for High-Precision, Low-Cost Peg-In-Hole Assembly, pp. 138-143.
Lin, Ze	South China University of Technology
Zeng, Miaosheng	South China University of Technology
Wang, Chuang	South China University of Technology
Wu, Sihan	South China University of Technology
Xie, Longhan	South China University of Technology
5:30-18:00	FR-1630T2.2
n AR-Assisted Human-Robot Interaction System for Improving	g LLM-Based Robot Control, pp. 144-149.
Zhao, Ziyue	Nanyang Technological University
Lou, Shanhe	Nanyang Technological University
Tan, Runjia	Nanyang Technological University
Lv, Chen	Nanyang Technological University
5:30-18:00	FR-1630T2.3
istributed Stochastic Optimization under Heavy-Tailed Noises	(I), pp. 150-155.
Sun, Chao	NTU
Chen, Bo	Zhejiang University of Technology
5:30-18:00	FR-1630T2.4
perational Decision-Making Optimization of Aluminum Electro. I, pp. 156-161.	lysis Process Based on Health Evaluation of Aluminum Electrolytic Cell
Wang, Jie	Central South University
Xie, Yongfang	Central South University
Xie, Shiwen	Central South University
Chen, Xiaofang	Central South University
5:30-18:00	FR-1630T2.5
	Joint Strategy of A* and Simulated Annealing Algorithms (I), pp. 162-
Jiang, ZiHan	Xi' an Jiaotong-Liverpool University
Li, Fumin	XI all blacking Elverpoor of inversity
Yang, Rui	Xi'an Jiaotong-Liverpool University
5:30-18:00	FR-1630T2.6
Two-Stage Heuristic Framework for Location-Arc Routing Op	
Liu, Guogiang	Nanyang Technological University
Yang, Huan	Nanyang Technological University
Zhao, Han	Nanyang Technological University
Wang, David Zhiwei	Nanyang Technological University
5:30-18:00	FR-1630T2.7
lant-Wide Process Incipient Fault Detection Via Double-Layer	Subspace Weighted Moving Window Reconstruction ICA (I), pp. 174-
79.	Fact Ohina Halisanita of Osisma and T. J.
	East China University of Science and Technology
Song, Bing YiMeng, Song	East China University of Science East China University of Science

Technical Program for Saturday August 10, 2024

SA-0900T1 Intelligent Systems for Real-World Applications (Regular Sessions)	Renyue Ballroo
09:00-10:00	SA-0900T1
An Application Study on Reconfigurable Robotic Workcells and Policy Adapt	
Simonic, Mihael	Jožef Stefan Institu
Kuster, Boris	Jožef Stefan Institu
Mavsar, Matija	Jozef Stefan Institu
Šavle, Gašper	Jozef Stefan Institu
Ruiz, Sebastian	Universität Göttinge
Bem, Martin	Jozef Stefan Institu
Majcen Hrovat, Matevž	Jozef Stefan Institu
Ude, Ales	Jozef Stefan Institu
09:00-10:00	SA-0900T1
Abnormal Behavior Detection of Needle Selector's Knife Heads Based on Im	proved Generative Adversarial Networks, pp. 187-192.
Peng, Laihu	Zhejiang Sci-Tech Univers
Chen, Xiangbin	Zhejiang Sci-Tech Univers
Ru, Xin	Zhejiang Sci-Tech Universi
Zhang, Xianming	Zhejiang Sci-Tech Univers
Liu, Song	Zhejiang Sci-Tech Univers
09:00-10:00	SA-0900T1
Orbital Error Propagation for Geocentric Space-Based Gravitational Wave O	Observatory Based on KRG-HDMR Method, pp. 193-198.
Zheng, JianChao	Beijing Institute of Technolo
Jia, Feida	Beijing Institute of Technolo
Li, Xiangyu	Beijing Institute of Technolo
09:00-10:00	SA-0900T ²
PEGG-Net: Pixel-Wise Efficient Grasp Generation in Complex Scenes, pp. 1	
Wang, Haozhe	National University of Singapo
Liu, Zhiyang	National University of Singapo
Zhou, Lei	National University of Singapo
Yin, Huan	Hong Kong University of Science and Technolo
Ang Jr, Marcelo H	National University of Singapo
09:00-10:00	SA-0900T
A Multifunctional Electromagnetic Generator for Omnidirectional Wind Energ pp. 207-211.	y Harvesting and Self-Powered Wind Vector Detection,
Yao, Yipei	Zhejiang Univers
Fan, Shuyu	Zhejiang Univers
Chi, Haozhen	Zhejiang Univers
Gao, Chenyang	Zhejiang Univers
Hou, Dibo	Zhejiang Univers
Cao, Yunqi	Zhejiang Univers
SA-0900T2	Tianle Ballroo
Human-Robot Interaction (Regular Sessions)	0.000
09:00-10:00 Adaptive Impedance Modulation-Based Control for Human-Robot Interaction	SA-0900T2
Du, Liang Lv, JiYu	Guangdong Industry Polytechi Guangzhou Univers
Qiu, LiMing	GuangZhou Univers
Chen, Shouyan	Guangzhou Univers
09:00-10:00	SA-0900T2
CLFR-M: Continual Learning Framework for Robots Via Human Feedback a. Wang Lei	2111
Wang, Lei	Zhejiang University of Technolo
Fei, Yiming	Zhejiang University Chi
Tang, Huajin	Zhejiang University, Chi
Yan, Rui	Zhejiang University of Technolo
09:00-10:00	SA-0900T2

Chongqing University of Posts and Telecommunications

	Chongqing University of Posts and Telecommunications
Zhang, Lianhua	Chongqing University of Posts and Telecommunications
Zhang, Hao	Chongqing University of Posts and Telecommunications
Xu, Daijiang	Chongqing University of Posts and Telecommunications
09:00-10:00	SA-0900T2.4
Ergo Align Cushion: A Haptic-Visual Feedback System to Promo	te Dynamic Sitting in Office Settings, pp. 227-231.
Ugwueke, Chidubem Emmanuel	Zhejiang University
Museto, Salome	Zhejiang University
Hui, Lyu	Zhejiang University
Abdiaziz, Omar Hassan	Zhejiang University
Ameen, Hashem	Zhejiang University
Al-Shameri, Mutahar	Zhejiang University
Ali, Hussein Abdullahi	Zhejiang University
09:00-10:00	SA-0900T2.5
Mobile Robots through Task-Based Human Instructions Using Inc	cremental Curriculum Learning, pp. 232-237.
Muttaqien, Muhammad Angga	University of Tsukuba
Yorozu, Ayanori	University of Tsukuba
Ohya, Akihisa	University of Tsukuba
SA-1030T1	Renyue Ballroom
Outcomes (Invited Sessions)	vations in Sensing, Actuation, and Control for Enhanced Clinical
Organizer: Li, Tianliang	Wuhan University of Technology
Organizer: Zhang, He	Harbin Institute of Technology
Organizer: Qin, Yanding	Nankai University
Organizer: Xiao, Bo	Imperial College London
Organizer: Jin, Haoran	Zhejiang University
10:30-11:30	SA-1030T1.1
	s in Sensing, Actuation, and Control for Enhanced Clinical Outcomes
Lin, Zhaochen	Zhejiang University
Lin, Shuanggen	Zhejiang University
Gao, Wei	
	Department of Neurosurgery, the Second Affiliated Hospital, Zhej
Zhu, Yongjian	The Second Affiliated Hosptial ZheJiang University School of Med
	Department of Neurosurgery, the Second Affiliated Hospital, Zhej The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University
Zhu, Yongjian Yang, Keji Jin, Haoran	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University SA-1030T1.2
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249.	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University
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Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Co.	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University SA-1030T1.2 SA-1030T1.2 and Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University SA-1030T1.3 SA-1030T1.3 SA-1030T1.3 Wuhan University of Science and Technology
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Coryongjian, Gong	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University SA-1030T1.3 prosion Sensor Based on Fiber Bragg Grating (I), pp. 250-254. Wuhan University of Science and Technology Wuhan University of Science and Technology
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Coryongjian, Gong Guo, Yongxing	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University SA-1030T1.3 prosion Sensor Based on Fiber Bragg Grating (I), pp. 250-254. Wuhan University of Science and Technology Wuhan University of Science and Technology
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Co Yongjian, Gong Guo, Yongxing Xiong, Li	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University SA-1030T1.3 perrosion Sensor Based on Fiber Bragg Grating (I), pp. 250-254. Wuhan University of Science and Technology Wuhan University of Science and Technology Wuhan University of Science and Technology SA-1030T1.4
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Co Yongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University SA-1030T1.3 prosion Sensor Based on Fiber Bragg Grating (I), pp. 250-254. Wuhan University of Science and Technology Wuhan University of Science and Technology Wuhan University of Science and Technology SA-1030T1.4 **Ultrasound Robot System (I), pp. 255-260.
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Coryongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30 Confidence-Driven Adaptive Optimal Impedance Control Base on	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University SA-1030T1.3 prosion Sensor Based on Fiber Bragg Grating (I), pp. 250-254. Wuhan University of Science and Technology Wuhan University of Science and Technology Wuhan University of Science and Technology SA-1030T1.4 **Ultrasound Robot System (I), pp. 255-260. Guangdong University of Technology
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Coryongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30 Confidence-Driven Adaptive Optimal Impedance Control Base on Li, Jinkun	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University Nankai University Of Science and Technology Wuhan University of Science and Technology SA-1030T1.4 Ultrasound Robot System (I), pp. 255-260. Guangdong University of Technology Agricultural Development Center of Kaizhou District
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Coryongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30 Confidence-Driven Adaptive Optimal Impedance Control Base on Li, Jinkun Zhang, Li	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University Nankai University Of Science and Technology Wuhan University of Science and Technology Agricultural Development Center of Kaizhou District Guangdong University of Technology
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Coryongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30 Confidence-Driven Adaptive Optimal Impedance Control Base on Li, Jinkun Zhang, Li Zheng, Wenxu	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University Nankai University Of Science and Technology Wuhan University of Science and Technology SA-1030T1.4 **Ultrasound Robot System (I), pp. 255-260.** Guangdong University of Technology Guangdong University of Technology Guangdong University of Technology Guangdong University of Technology
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Coryongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30 Confidence-Driven Adaptive Optimal Impedance Control Base on Li, Jinkun Zhang, Li Zheng, Wenxu Huang, Haohui	The Second Affiliated Hosptial ZheJiang University School of Medizhejiang University Zhejiang University Zhejiang University Zhejiang University SA-1030T1.2 End on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University Nankai University SA-1030T1.3 Perrosion Sensor Based on Fiber Bragg Grating (I), pp. 250-254. Wuhan University of Science and Technology Wuhan University of Science and Technology Wuhan University of Science and Technology SA-1030T1.4 Pultrasound Robot System (I), pp. 255-260. Guangdong University of Technology
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Coryongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30 Confidence-Driven Adaptive Optimal Impedance Control Base on Li, Jinkun Zhang, Li Zheng, Wenxu Huang, Haohui Guo, Jing	The Second Affiliated Hosptial ZheJiang University School of Medizhejiang University Zhejiang University Shejiang University Shejiang University Shejiang University Shejiang University Shejiang University Shejiang University and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University Shejiang Grating (I), pp. 250-254. Wuhan University of Science and Technology Shejiang University of Technology Agricultural Development Center of Kaizhou District Guangdong University of Technology Guangdong University of Technology Guangdong University of Technology Agricultural Development Center of Kaizhou District Center of Center of Kaizhou District Center of
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Co Yongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30 Confidence-Driven Adaptive Optimal Impedance Control Base on Li, Jinkun Zhang, Li Zheng, Wenxu Huang, Haohui Guo, Jing Chen, Shouyan 10:30-11:30	The Second Affiliated Hosptial ZheJiang University School of Medizhejiang University Zhejiang University Shejiang University Shejiang University Shejiang University Shejiang University Shejiang University Shejiang University and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University Shejiang Grating (I), pp. 250-254. Wuhan University of Science and Technology Shejiang University of Technology Agricultural Development Center of Kaizhou District Guangdong University of Technology Guangdong University of Technology Guangdong University of Technology Agricultural Development Center of Kaizhou District Center of Center of Kaizhou District Center of
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Co Yongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30 Confidence-Driven Adaptive Optimal Impedance Control Base on Li, Jinkun Zhang, Li Zheng, Wenxu Huang, Haohui Guo, Jing Chen, Shouyan 10:30-11:30	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University SA-1030T1.2 SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University Nankai University SA-1030T1.3 Perrosion Sensor Based on Fiber Bragg Grating (I), pp. 250-254. Wuhan University of Science and Technology Wuhan University of Science and Technology Wuhan University of Science and Technology SA-1030T1.4 Fulltrasound Robot System (I), pp. 255-260. Guangdong University of Technology Guangdong University of T
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Co Yongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30 Confidence-Driven Adaptive Optimal Impedance Control Base on Li, Jinkun Zhang, Li Zheng, Wenxu Huang, Haohui Guo, Jing Chen, Shouyan 10:30-11:30 Research and Development of a Machine Vision-Based System of Pei, Cunhao	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University Shejiang University Shejiang University Shejiang University Shejiang University Shejiang University Shejiang University Nankai University Nankai University Nankai University Nankai University Nankai University Shejiang Grating (I), pp. 250-254. Wuhan University of Science and Technology Wuhan University of Science and Technology Wuhan University of Science and Technology Shejiang University of Technology Shejiang University of Technology Agricultural Development Center of Kaizhou District Guangdong University of Technology Agricultural Development Center of Kaizhou District Shejiang University of Technology Agricultural Development Center of Kaizhou District Shejiang University of Technology Agricultural Development Center of Kaizhou District Shejiang University of Arts and Sciences
Zhu, Yongjian Yang, Keji Jin, Haoran 10:30-11:30 High-Precision Tip Shape Estimation for Flexible Endoscope Bas (I), pp. 245-249. Lv, Bowen Zhang, Yuan Qin, Yanding 10:30-11:30 Theoretical Principles and Simulation Analysis of an Intelligent Co Yongjian, Gong Guo, Yongxing Xiong, Li 10:30-11:30 Confidence-Driven Adaptive Optimal Impedance Control Base on Li, Jinkun Zhang, Li Zheng, Wenxu Huang, Haohui Guo, Jing Chen, Shouyan 10:30-11:30 Research and Development of a Machine Vision-Based System of	The Second Affiliated Hosptial ZheJiang University School of Med Zhejiang University Zhejiang University SA-1030T1.2 ed on Multiple Magnet Positioning and NURBS Curve Approximation Nankai University Nankai University Nankai University Nankai University Nankai University SA-1030T1.3 perosion Sensor Based on Fiber Bragg Grating (I), pp. 250-254. Wuhan University of Science and Technology SA-1030T1.4 **Ultrasound Robot System (I), pp. 255-260. Guangdong University of Technology Agricultural Development Center of Kaizhou District Guangdong University of Technology Guangdong University of Technology Agricultural Development Center of Kaizhou District SA-1030T1.5

Mechanism Design of Robotics (Regular Sessions)	Tianle Ballroon
10:30-11:30	SA-1030T2.
Model-Based System Engineering (MBSE) for Design of Me	echatronic Products, pp. 267-272.
Bi, Zhuming	Purdue University Fort Wayn
10:30-11:30	SA-1030T2.
Design and Control of Piezo-Driven Planar 3-DOFs Fully De	
Wu, Zhigang	Jiangxi University of Science and Technolog
Zhu, Nannan	Jiangxi University of Science and Technolog
Sun, Yunhao	Jiangxi University of Science and Technolog
10:30-11:30 Design of a Double-Joint Robotic Fish Using a Composite L	SA-1030T2.
Zhang, Ruijia	mnage, pp. 279-203. Wuhan Universit
Zhou, Wenke	Huazhong University of Science and Technolog
Li, Min	Wuhan Universit
Li, Miao	Wuhan Universit
10:30-11:30	SA-1030T2.
A Novel Robot Finger Geometry for Parallel Self-Adaptive G	Grasp with Rack-Crank-Slider Mechanism, pp. 284-289.
Feng, Kehan	Nanjing University of Aeronautics and Astronautics
Duan, Zhengping	Nanjing University of Aeronautics and Astronautic
Han, Chi	Nanjing University of Aeronautics and Astronautic
Guo, Zihan Zhang, Wenzeng	Shanghai Jiao Tong Universit Shenzhen X-Institut
10:30-11:30 Design of a 6 DoF Multi-Robot Platform for Automated Platform for Automated Multi-Robot Platform for Automated Platform for Automat	SA-1030T2.
Springer, Malte	Volkswagen Group Innovation
Recker, Tobias	Leibniz University Hanove
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Schütz, Daniel	Volkswagen Group Innovation
Raatz, Annika SA-1130T1	Volkswagen Group Innovatior Leibniz Universität Hannove Renyue Ballroom
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30	Leibniz Universität Hannove Renyue Ballroon SA-1130T1.
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerani	Leibniz Universität Hannove Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302.
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerant Xu, Tengye	Leibniz Universität Hannove Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerani	Leibniz Universität Hannove Renyue Ballroon SA-1130T1.
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerant Xu, Tengye Yang, Zhe	Leibniz Universität Hannove Renyue Ballroon SA-1130T1.* t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang University Zhejiang University
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerant Xu, Tengye Yang, Zhe Ren, Qinyuan	Leibniz Universität Hannove Renyue Ballroon SA-1130T1.* t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang University Zhejiang University Zhejiang University SA-1130T1.*
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerant Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30	Leibniz Universität Hannove Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1.
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerani Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappin	Leibniz Universität Hannove Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerani Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappin He, Miaolei Yue, Xiangdi Du, Qungui	Leibniz Universität Hannove Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal University South China University of Technology
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerani Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappin He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping	Leibniz Universität Hannove Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technology Guangdong Metal Forming Machine Works Co., Ltd.
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerant Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappin, He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei	Leibniz Universität Hannove Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technolog Guangdong Metal Forming Machine Works Co., Lt Hunan Normal University
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerand Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappind He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu	Leibniz Universität Hannove Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technolog Guangdong Metal Forming Machine Works Co., Ltd Hunan Normal Universit Hunan Normal Universit
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerand Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappind He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu 11:30-12:30	Leibniz Universität Hannove Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technolog Guangdong Metal Forming Machine Works Co., Ltd Hunan Normal Universit Hunan Normal Universit Hunan Normal Universit SA-1130T1.
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerand Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappind He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu	SA-1130T1. SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technolog Guangdong Metal Forming Machine Works Co., Lt Hunan Normal Universit Hunan Normal Universit Hunan Normal Universit SA-1130T1.
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerand Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappind He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu 11:30-12:30 Signal and Trajectory Planning for Autonomous Buses at Lot	Leibniz Universität Hannove Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technolog Guangdong Metal Forming Machine Works Co., Ltd Hunan Normal Universit Hunan Normal Universit SA-1130T1. SA-1130T1. Guangdong University of Technolog
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerand Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappind He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu 11:30-12:30 Signal and Trajectory Planning for Autonomous Buses at Lonchen, SaiFei	SA-1130T1. SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. G: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technolog Guangdong Metal Forming Machine Works Co., Lt Hunan Normal Universit Hunan Normal Universit Hunan Normal Universit SA-1130T1. SA-1130T1. Guangdong University of Technolog Guangdong University of Technolog
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerani Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappin He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu 11:30-12:30 Signal and Trajectory Planning for Autonomous Buses at Lo Chen, SaiFei Ma, Zhicheng Jin, Chengqian Fu, Hui	Leibniz Universität Hannoverschaften Ballroom SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technolog Guangdong Metal Forming Machine Works Co., Lt Hunan Normal Universit Hunan Normal Universit Hunan Normal Universit SA-1130T1. Cocal Intersections in Bi-Modal Traffic Flows, pp. 309-314. Guangdong University of Technolog Guangdong University of Technolog Guangdong University of Technolog Guangdong University of Technolog
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerani Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappin He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu 11:30-12:30 Signal and Trajectory Planning for Autonomous Buses at Lo Chen, SaiFei Ma, Zhicheng Jin, Chengqian Fu, Hui Qiao, Yan	Renyue Ballroon SA-1130T1. It Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. Ig: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technolog Guangdong Metal Forming Machine Works Co., Lt Hunan Normal Universit Hunan Normal Universit Hunan Normal Universit SA-1130T1. Ocal Intersections in Bi-Modal Traffic Flows, pp. 309-314. Guangdong University of Technolog
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerant Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappin, He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu 11:30-12:30 Signal and Trajectory Planning for Autonomous Buses at Lo Chen, SaiFei Ma, Zhicheng Jin, Chengqian Fu, Hui Qiao, Yan Wu, Naiqi	Renyue Ballroor SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technolog Guangdong Metal Forming Machine Works Co., Lt Hunan Normal Universit Hunan Normal Universit SA-1130T1. SA-1130T1. Guangdong University of Technolog Guangdong University of Science and Technolog Naiqi W
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Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerant Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappin, He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu 11:30-12:30 Signal and Trajectory Planning for Autonomous Buses at Lo Chen, SaiFei Ma, Zhicheng Jin, Chengqian Fu, Hui Qiao, Yan Wu, Naiqi 11:30-12:30 Formation Control of Multiple Underactuated Unmanned Su	Renyue Ballroor SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit Zhejiang Universit SA-1130T1. g: A Concise Survey, pp. 303-308. Central South Universit Hunan Normal Universit South China University of Technolog Guangdong Metal Forming Machine Works Co., Lt Hunan Normal Universit Hunan Normal Universit SA-1130T1. Cocal Intersections in Bi-Modal Traffic Flows, pp. 309-314. Guangdong University of Technolog Guangdong University of Science and Technolog Macau University of Science and Technolog Naiqi W SA-1130T1.
Raatz, Annika SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerant Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappin, He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu 11:30-12:30 Signal and Trajectory Planning for Autonomous Buses at Lo Chen, SaiFei Ma, Zhicheng Jin, Chengqian Fu, Hui Qiao, Yan Wu, Naiqi 11:30-12:30 Formation Control of Multiple Underactuated Unmanned Su Yuan, Jianyang	Renyue Ballroon SA-1130T1.* t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang University, Zhejiang University, Zhejiang University, Zhejiang University, Zhejiang University, Zhejiang University, SA-1130T1.* g: A Concise Survey, pp. 303-308. Central South University, Hunan Normal University, South China University of Technology, Guangdong Metal Forming Machine Works Co., Ltd. Hunan Normal University, Hunan Normal University, Hunan Normal University, Hunan Normal University, Guangdong University of Technology, Guangdong University of Science and Technology, Macau University of Science and Technology, Naiqi World SA-1130T1.* SA-1130T1.*
SA-1130T1 Robotics and Autonomous Systems (Regular Sessions) 11:30-12:30 Meta-Reinforcement Learning of Hierarchical Fault-Tolerant Xu, Tengye Yang, Zhe Ren, Qinyuan 11:30-12:30 Spinning-Actuated LiDAR-Based SLAM for Robotic Mappin, He, Miaolei Yue, Xiangdi Du, Qungui Li, Jianping Chen, Jiawei Dai, Lu 11:30-12:30 Signal and Trajectory Planning for Autonomous Buses at Lo Chen, SaiFei Ma, Zhicheng Jin, Chengqian Fu, Hui Qiao, Yan Wu, Naiqi 11:30-12:30 Formation Control of Multiple Underactuated Unmanned Su	Renyue Ballroon SA-1130T1. t Controller for Multiple Leg Failures in Hexapod Robots, pp. 297-302. Zhejiang University Zhejiang University Zhejiang University Zhejiang University SA-1130T1. g: A Concise Survey, pp. 303-308. Central South University Hunan Normal University South China University of Technology Guangdong Metal Forming Machine Works Co., Ltd Hunan Normal University Hunan Normal University Hunan Normal University SA-1130T1. Cocal Intersections in Bi-Modal Traffic Flows, pp. 309-314. Guangdong University of Technology Guangdong University of Science and Technology Macau University of Science and Technology Naiqi Wo

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Bernard Voon Ee, How	Technology Centre for Offshore and Marine, Singapore
Xu, Haihua	Technology Centre for Offshore and Marine, Singapore
Siow, Wei Han	BeeX Pte Ltd
You, Rion	BEEX
Goh, Eng Wei	BEEX
CA 4420T2	Tionlo Bollroom

Gon, Eng Wei	BEEX
SA-1130T2	Tianle Ballroom
Visual Perception and Learning (Regular Sessions)	
11:30-12:30	SA-1130T2.1
Learning Efficient Representations for Goal-Conditioned Reinfo	rcement Learning Via Tabu Search, pp. 328-333.
Liang, Tianhao	Zhejiang University
Chen, Tianyang	Zhejiang University
Chen, Xianwei	Zhejiang University
Ren, Qinyuan	Zhejiang University
11:30-12:30	SA-1130T2.2
Algorithm for Three-Dimensional Detection of Pedestrians in Mo	onocular Roadside View, pp. 334-339.
Cui, Hua	Chang'an University
Yin, Da	Chang an University
Wang, Wei	Changan University
Xi, Liugang	Changan University
Xu, Yue	ChangAn University
11:30-12:30	SA-1130T2.3
Key Vertices Based Layered Scene Maps Constructing for Carr	npus Road Conditions, pp. 340-345.
Zhang, Yitao	Zhejiang University of Science and Technology
Zheng, Hui	Zhejiang University of Science and Technology
Jie, Jing	Zhejiang University of Science and Technology
Li, Zhenglin	Zhejiang University of Science and Technology
Zhang, Yu	Zhejiang University of Science and Technology
Khan, Idrees	Zhejiang University of Science and Technology
11:30-12:30	SA-1130T2.4
3D Vehicle Detection from Roadside Monocular View Based on	Improved CenterNet, pp. 346-351.
Wang, Wei	Changan University
Xi, Liugang	Changan University
Cui, Hua	Chang'an University
Yin, Da	Chang an University
Lan, Jingbo	Changan University
11:30-12:30	SA-1130T2.5
P-SVM2: Enhancing LiDAR-Based Traversability Analysis with .	Augmented Point Cloud Descriptor for Autonomous Mobile Systems,
pp. 352-359.	
Li, Wanmeng	University of Padova
Fusaro, Daniel	Department of Information Engineering (DEI), University of Padov
Olivastri, Emilio	University of Padua
Mosco, Simone	Università Degli Studi Di Padova
Bellotto, Nicola	University of Padua
Pretto, Alberto	University of Padova
SA-1400T1	Renyue Ballroom
Artificial Intelligence Generated Content (Regular Sessions)	Reflyde Ballioofff

	yue Ballroom
Artificial Intelligence Generated Content (Regular Sessions)	

14:00-15:00 SA-1400T1.1

A Conversational Application for Insomnia Treatment: Leveraging the ChatGLM-LoRA Model for Cognitive Behavioral Therapy, pp. 360-367.

Chen, Yinda Quzhou University Pan, Shuo Wenzhou Medical University Xia, Yu The First School of Medicine, School of Information and En Ren, Keqi Wenzhou Medical University Zhang, Luying Wenzhou Medical University Wenzhou Medical University Mo, Zefei Chen, Jiahe The First School of Medicine, School of Information and En Zhang, Meijia Wenzhou Medical University Li, Huanhuan Zhejiang University Shuai, Jianwei Wenzhou Institute Xia, Qinghua Zhejiang University

Yu, Rongwen 14:00-15:00	Wenzhou Institute SA-1400T1.
GPTQT: Quantize Large Language Models Twice to Push the	
Guo, Yipin	Zhejiang Universit
Lang, Yilin	Zhejiang Universit
Ren, Qinyuan	Zhejiang Universit
•	, ,
14:00-15:00	SA-1400T1.
Rethinking Spikes in Spiking Neural Networks for Performance Zhou, Feifan	• • •
Fu, Minggian	Tianjin Universit Tianjin Yinghua Experimental Schoo
Gao, Yanxiu	Tianjin Yinghua Experimental School
Wang, Bo	Sitonholy(Tianjin) Technology Co., Lt
Yu, Qiang	Tianjin Universit
14:00-15:00	
Listen to the Speaker in Your Gaze, pp. 380-385.	SA-1400T1.
Yang, Hongli	Shenzhen Research Institute of Big Data, Shenzhen, China
rang, nongii	School of Computer Science and Technology, Xinjiang Universit
Chen, Xinyi	Shenzhen Research Institute of Big Dat
Li, Junjie	Shenzhen Research Institute of Big Data, the Chinese Universit
Huang, Hao	School of Computer Science and Technology, Xinjiang University
Cai, Siqi	National University of Singapor
Li, Haizhou	National University of Singapor
14:00-15:00	SA-1400T1.
Domain Adaptation for Infrared-Radar Cross-Scene Multimoda	
Chai, Bosong	Zhejiang Universit
Qian, Zheng	Zhejiang Universit
Nie, Xuan	Northwestern Polytechnical Universit
Jianchao, Jia	Northwestern Polytechnical Universit
Pan, Gang	Zhejiang Universit
SA-1400T2 Perception and Decision for Intelligent Systems in Urban I	Tianle Ballroor
Perception and Decision for Intelligent Systems in Urban Organizer: Wang, Danwei	Tianle Ballroor Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun	Tianle Ballroor Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit
Perception and Decision for Intelligent Systems in Urban Organizer: Wang, Danwei	Tianle Ballroor Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu	Tianle Ballroor Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu 14:00-15:00	Tianle Ballroor Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit SA-1400T2.
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu 14:00-15:00	Tianle Ballroor Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu 14:00-15:00 Towards Safe and Efficient Last-Mile Delivery: A Multi-Modal S	Tianle Ballroon Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit SA-1400T2. Socially Aware Navigation Framework for Autonomous Robots on
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu 14:00-15:00 Towards Safe and Efficient Last-Mile Delivery: A Multi-Modal Seedstrian-Crowded Sidewalks (I), pp. 392-398.	Tianle Ballroon Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit SA-1400T2. Socially Aware Navigation Framework for Autonomous Robots on Nanyang Technological Universit
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu 14:00-15:00 Towards Safe and Efficient Last-Mile Delivery: A Multi-Modal Seedstrian-Crowded Sidewalks (I), pp. 392-398. Zhou, Yichen	Tianle Ballroon Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit SA-1400T2. Socially Aware Navigation Framework for Autonomous Robots on Nanyang Technological Universit China-Singapore International Joint Research Center
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu 14:00-15:00 Towards Safe and Efficient Last-Mile Delivery: A Multi-Modal Seedstrian-Crowded Sidewalks (I), pp. 392-398. Zhou, Yichen Wen, Mingxing	Tianle Ballroon Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit SA-1400T2. Socially Aware Navigation Framework for Autonomous Robots on Nanyang Technological Universit China-Singapore International Joint Research Cente Nanyang Technological Universit
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu 14:00-15:00 Towards Safe and Efficient Last-Mile Delivery: A Multi-Modal Selectrian-Crowded Sidewalks (I), pp. 392-398. Zhou, Yichen Wen, Mingxing Chen, Xun	Tianle Ballroon Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit SA-1400T2. Socially Aware Navigation Framework for Autonomous Robots on Nanyang Technological Universit China-Singapore International Joint Research Cente Nanyang Technological Universit Nanyang Technological Universit
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu 14:00-15:00 Towards Safe and Efficient Last-Mile Delivery: A Multi-Modal Selectrian-Crowded Sidewalks (I), pp. 392-398. Zhou, Yichen Wen, Mingxing Chen, Xun Zhao, Chunyang	Tianle Ballroon Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit SA-1400T2. Socially Aware Navigation Framework for Autonomous Robots on Nanyang Technological Universit China-Singapore International Joint Research Cente Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu 14:00-15:00 Towards Safe and Efficient Last-Mile Delivery: A Multi-Modal Selectrian-Crowded Sidewalks (I), pp. 392-398. Zhou, Yichen Wen, Mingxing Chen, Xun Zhao, Chunyang Guo, Jiajie	Tianle Ballroon Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit SA-1400T2. Socially Aware Navigation Framework for Autonomous Robots on Nanyang Technological Universit China-Singapore International Joint Research Cente Nanyang Technological Universit
Perception and Decision for Intelligent Systems in Urban I Organizer: Wang, Danwei Organizer: Zhang, Jun Organizer: Yang, Huan Organizer: Wu, Zhenyu 14:00-15:00 Towards Safe and Efficient Last-Mile Delivery: A Multi-Modal Selectrian-Crowded Sidewalks (I), pp. 392-398. Zhou, Yichen Wen, Mingxing Chen, Xun Zhao, Chunyang Guo, Jiajie Zhang, Jun	Tianle Ballroon Environments (PDISUE) (Invited Sessions) Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit Nanyang Technological Universit SA-1400T2. Socially Aware Navigation Framework for Autonomous Robots on Nanyang Technological Universit China-Singapore International Joint Research Cente Nanyang Technological Universit
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University of Toronto

Zhang, Siqi

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Liang, Xiaoling	National University of Singapore
Ruihang, Ji	National University of Singapore Qingdao University
Jiang, Wanyue Ge, Shuzhi Sam	National University of Singapore
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14:00-15:00 3D Map Generation for Indoor Non-Manhattan World	SA-1400T2.5
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Bonner, Timothy Lee, Bryan	Cambridge University
	National University of Singapore
Srigrarom, Sutthiphong	National University of Singapore
Leong, Wai Lun	National University of Singapore National University of Singapore
Chiun, Jimmy	National University of Singapore
SA-1630T1 Intelligent Computing for Cross-Modal Medical In	Renyue Ballroom
Organizer: Peng, Chen	Zhejiang Lab
Organizer: Li, Shuailong	Zhejiang Lab
Organizer: Li, Shuallong Organizer: Zhang, Qing	Zhejiang Lab Zhejiang Lab
Organizer: Zhang, Qing Organizer: Lyu, Tianling	Zhejiang Lab
	, ,
Organizer: Wang, Vuo	Zhejiang Lab
Organizer: Wang, Yue	Zhejiang Lab
16:30-18:00 HIL-Net: Hessian-Incorporated IL-Net for CRCT Proje	SA-1630T1.1 ection-Domain Metal Segmentation with Guidance from SAM (I), pp. 423-428.
Jiang, Chen	
Jiang, Chen Lyu, Tianling	Zhejiang Lab Zhejiang Lab
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Ma, Gege	Zhejiang Lab
Xi, Yan	Shanghai First-Imaging Tech
Chen, Yang	Southeast University
Zhu, Wentao	Zhejiang Lab
16:30-18:00	SA-1630T1.2
_	n Algorithm without Manual Labeling (I), pp. 429-434.
Wang, Yue	Zhejiang Lab
Ma, Xiao	Zhejiang Lab
Zhang, Qing	Zhejiang Lab
Junxiao, Xue	Zhejiang Lab
Lin, Feng	Zhejiang Lab
16:30-18:00	SA-1630T1.3
Predict the Endoleak Risk after EVAR Based on Mul	ti-Dimensional Anatomical Features before AAA Surgery (I), pp. 435-440.
Peng, Chen	Zhejiang Lab
He, Wei	Fudan University
Wang, Shuo	Fudan University
Xie, Ziyue	Fudan University
Ma, Xiao	Zhejiang Lab
Zhang, Qing	Zhejiang Lab
Fu, Weiguo	Zhongshan Hospital, Fudan University
Lin, Feng	Zhejiang Lab
16:30-18:00	SA-1630T1.4
•	Cancer: A Multi-Magnification and Attention-Based Approach (I), pp. 441-446.
Qu, Linhao	Fudan University
Zhang, Chengsheng	Ocean University of China
Li, Guihui	Ocean University of China
Zheng, Haiyong	Ocean University of China
Peng, Chen	Zhejiang Lab
He, Wei	Fudan University
16:30-18:00	SA-1630T1.5
Morphological Classification of Elbow Joints Based of	
Wang, Jun	Zhejiang Lab
Ding, Xiying	Department of Ultrasound, Sir Run Run Shaw Hospital, Zhejiang University
Zhang, Yongxing	Department of Orthopedics, the Second Affiliated Hospital, Zhejiang University
Ma, Xiao	Zhejiang Lab
Peng, Chen	Zhejiang Lab
Lin, Feng	Zhejiang Lab

Zhang, ChiNorthwestern Polytechnical UniversityYang, YvhaoNorthwestern Polytechnical UniversityZhang, WeimengNorthwestern Polytechnical UniversityHe, KedaNorthwestern Polytechnical UniversityLi, QingNorthwestern Polytechnical UniversityLi, WeiNorthwestern Polytechnical UniversityLiu, LeiNorthwestern Polytechnical University

16:30-18:00 SA-1630T2.7

Harmonic-Resistant Recurrent Neural Network for a Time-Varying Matrix Pseudoinverse (I), pp. 496-501.

Zhang, Bing Institute of Optics and Electronics, Chinese Academy of Sciences

Mao, Yao Institute of Optics and Electronics, CAS Li, Shuai University of Oulu

Chen, Xinglong Institute of Optics and Electronics, CAS

Technical Program for Sunday August 11, 2024

SU-0900T1 Neural Networks (Regular Sessions)	Renyue Ballroon
09:00-10:00	SU-0900T1.
From Seedling to Harvest: The GrowingSoy Dataset for Weed Dete	ection in Soy Crops Via Instance Segmentation, pp. 502-507.
Steinmetz, Raul	Universidade Federal De Santa Mari
Kich, Victor Augusto	University of Tsukub
Krever, Henrique	Universidade Federal De Santa Mari
Mazzarolo, Joao Davi Rigo	Universidade Federal De Santa Mari
Grando, Ricardo	Federal University of Rio Grand
Marini, Vinicius	Universidade Federal De Santa Mari
Trois, Celio	Universidade Federal De Santa Mari
Nieuwenhuizen, Ard	Wageningen University & Research
09:00-10:00	SU-0900T1.
3D Spacecraft Position and Orientation Estimation Model Based on	· · · · ·
Tong, Shang	Beihang Universit
Ouyang, Zhenchao	Beihang Universit
Hu, Qinglei	Beihang Universit
Li, Dongyu	Beihang Universit
09:00-10:00	SU-0900T1.
Precision and Adaptability of YOLOv5 and YOLOv8 in Dynamic Rol	
Kich, Victor Augusto	University of Tsukub
Muttaqien, Muhammad Angga	University of Tsukub
Toyama, Junya	University of Tsukub
Miyoshi, Ryutaro Ida, Yosuke	University of Tsukub
Ohya, Akihisa	University of Tsukub
Date, Hisashi	University of Tsukub University of Tsukub
09:00-10:00	SU-0900T1.
ARANet: Attention-Based Residual Adversarial Network with Deep pp. 520-525.	
Wen, Lu	Sichuan Universit
Yin, Wenxia	Sichuan Universit
Feng, Zhenghao	Sichuan Universit
Wu, Xi	Chengdu University of Information Technolog
Zhou, Jiliu	Sichuan Universit
Wang, Yan	Sichuan Universit
09:00-10:00	SU-0900T1.
CMIB: A Cross Modal Interaction with Information Bottleneck Frame	
Lai, Zhouyou	Sichuan Universit
Long, Lifan	Sichuan Universit
Cui, Jiaqi	Sichuan Universit
Liu, Yuanjun	Suining Central Hospita
Yin, Hao	Si Chuan Universit
Wang, Yan	Sichuan Universit
SU-1030T1 Frontiers in Al and Robotics in Extreme Environment (Invited S	Renyue Ballroor
Organizer: Li, Jichun	Newcastle Universit
10:30-11:30	SU-1030T1.
Approaches for Enhancement of Perception through Sensor Design	n for Extreme Environment (I), pp. 531-536.
Li, Jiguang	University of Salfor
Li, Nandu	China University of Geoscience (Wuhar
Holderbaum, William	University of Readin
10:30-11:30	SU-1030T1.
A Serious Game Prototype of Combined Cognitive Training for Alzh	neimer's Patients (I), pp. 537-542.
Yang, Xiao	Newcastle Universit
Tang, Muran	Newcastle Universit
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10:30-11:30	SU-1030T1.3
A Novel Approach for Solving the Time-Varying Com Network, pp. 543-548.	plex-Valued Linear Matrix Inequality Based on Fuzzy-Parameter Zeroing Neural
Luo, Jiajie	Newcastle University
Li, Jichun	Newcastle University
Holderbaum, William	University of Reading
Li, Jiguang	University of Salford
10:30-11:30	SU-1030T1.4
Decision Tree Based Automated Detection of Breast	
Long, Jianqiao	Newcastle University
Zheng, Ziwei	Newcastle University
Wang, Jiyu	Hangzhou Hikvision Digital Technology Co., Ltd
Ng, Chi Kit	Newcastle University
Liu, Chang	Newcastle University
Ji, Wenxing	Newcastle University
10:30-11:30	SU-1030T1.5
	rgeting ErbB Signalling Pathway for Brain Cancer Therapy (I), pp. 555-560.
Ng, Chi Kit	Newcastle University
Long, Jianqiao	Newcastle University
Tang, Muran	Newcastle University
Li, Jichun	Newcastle University
Quan, Mingming	Newcastle University
SU-1130T1	Renyue Ballroom
Machine Learning, Optimization Design, and Ren	
11:30-12:30	SU-1130T1.
-	eleoperation Rendezvous and Docking System (I), pp. 561-566.
Guo, Zhongwei	Beijing Institute of Spacecraft System Engineering
Ying, Le	Beijing Institute of Spacecraft System Engineering Beijing Institute of Spacecraft System Engineering
An, Jing Zhang, Xu	Beijing Institute of Spacecraft System Engineering
Fan, Gaojie	Beijing Institute of Spacecraft System Engineering
Li, Tao	Beijing Institute of Spacecraft System Engineering
11:30-12:30	SU-1130T1.2
Deep Learning-Based Visual Recognition System for	
Ma, Rui	College of Engineering
Liu, Yihan	College of Engineering
Wu, Qike	College of Engineering
Zhang, Shaoru	Hebei Normal Universit
Wang, Nan	Hebei Nomal Universit
Zhang, Jielu	Jiangsu Tailong Reducer Co. LTI
Luo, Fang Lin	Nanyang Technological Universit
11:30-12:30	SU-1130T1.
Crop-Picking Robot Grasping System Based on Dee	p Learning (I), pp. 573-578.
Wu, Qike	College of Engineering
Liu, Yihan	College of Engineering
Ma, Rui	College of Engineering
Zhang, Shaoru	Hebei Normal Universit
Gao, Sai	Hebei Normal Universit
Zhang, Jielu	Jiangsu Tailong Reducer Co. LTI
Luo, Fang Lin	Nanyang Technological University
11:30-12:30	SU-1130T1.4
Optimization Design of a New Type of Halbach Array Zhang, Shaoru	
•	Hebei Normal Universit
Jiang, Muyan	Hebei Normal Universit
Liu, Yihan	College of Engineerin
Huang, Zhanping	Hebei Normal Universit
Du, Xiuju Zhang Jialu	Hebei Normal Universit
Zhang, Jielu	Jiangsu Tailong Reducer Co. LTE Nanyang Technological Universit
LUO ESDOLIO	Nanyana i Acanological I Iniversity
Luo, Fang Lin	really and recliniological officerist

11:30-12:30 SU-1130T1.5

The Short-Term Photovoltaic Power Generation Forecasting Based on Fruit Fly Optimization Algorithm Optimized BP Neural Network (I), pp. 585-590.

Zhang, Shaoru Hebei Normal University
Zhu, Haoxuan Hebei Normal University
Yang, Likun Hebei Normal University
Huang, Zhanping Hebei Normal University
Du, Xiuju Hebei Normal University
Zhang, Jielu Jiangsu Tailong Reducer Co. LTD

Luo, Fang Lin Nanyang Technological University

xxiii