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11 September 2021**



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Conference program

Technical Program for Saturday September 11, 2021

Sa1A	Room A
Robot Systems and Applications (Regular Sessions)	
Chair: Feng, Qingchun	Beijing Research Center of Intelligent Equipment for Agriculture
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Peng, Song	China Academy of Space Technology
Jia, Yang	China Academy of Space Technology
Tian, He	Jilin University
Zhang, Tian Yi	Jilin University
10:10-10:25	Sa1A.2
<i>Non-Contact Massively Parallel Manipulation of Micro-Objects by Optoelectronic Tweezers</i> , pp. 7-12.	
Gan, Chunyuan	Beihang University
Liang, Shuzhang	Beihang University
Wang, Fenghui	Beihang University
Cao, Yuqing	Beihang University
Ji, Yiming	Beihang University
lina, Jia	Beihang University
Song, Li	Beihang University
Feng, Lin	Beihang University
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Wang, Luyao	Beihang University
Song, Li	Beihang University
lina, Jia	Beihang University
Sun, Hongyan	Beihang University
Ji, Yiming	Beihang University
Dai, Yuguo	Beihang University
Feng, Lin	Beihang University
10:40-10:55	Sa1A.4
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ULLAH, ZAKIR	Beihang University
Chen, Dixiao	Beihang University
Tovmachenko, Oksana	Beihang University
Feng, Lin	Beihang University
10:55-11:10	Sa1A.5
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Feng, Qingchun	Beijing Research Center of Intelligent Equipment for Agriculture
Wang, Bowen	Beijing Research Center of Intelligent Equipment for Agriculture
Zhang, Wanhao	Beijing Research Center of Intelligent Equipment for Agriculture
li, Xiaoming	Beijing Vocational College of Agriculture
11:10-11:25	Sa1A.6
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Liu, Siyun	China Coal Research Institute
Qi, Qingjie	China Coal Research Institute
Song, Changhui	Tsinghua University
Cheng, Huifeng	China Coal Research Institute
Xian, Wenhao	China Coal Research Institute
Wu, Bing	China Coal Research Institute
Wang, Yue	China Coal Research Institute

Sa1B		
Robotics and Image Guidance in Biomedicine: Technical Progress and Applications (OS)		
Chair: Su, Baiquan	Beijing University of Posts and Telecommunications	
Organizer: Su, Baiquan	Beijing University of Posts and Telecommunications	
Organizer: Chen, Bai	Nanjing University of Aeronautics and Astronautics	
Organizer: Kuang, Shaolong	Soochow University	
Organizer: Liu, Wenyong	Beihang University	
Organizer: Wang, Junchen	Beihang University	
Organizer: Lei, Jingtao	Shanghai University	
Organizer: Li, Changsheng	Beijing Institute of Technology	
Organizer: Zhang, Fengfeng	Soochow University	
Organizer: Jiang, Weipeng	Xian Medical University	
Organizer: Hu, Yida	Harvard Medical School	
Organizer: Yin, Jianqin	Beijing University of Posts and Telecommunications	
Organizer: Yu, Shumei	Soochow University	
09:55-10:10		Sa1B.1
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Su, Baiquan	Beijing University of Posts and Telecommunications	
Li, Han	Beijing University of Posts and Telecommunications	
Yu, Shi	Beijing University of Posts and Telecommunications	
Yan, Xinrong	Beijing University of Posts and Telecommunications	
Gong, Yi	Beijing University of Posts and Telecommunications	
Wang, Zehao	Beijing University of Posts and Telecommunications	
Liu, Wenyong	Beihang University	
Kuang, Shaolong	Soochow University	
Yao, Wei	Peking University Third Hospital	
10:10-10:25		Sa1B.2
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Wei, Minhua	Soochow University	
wang, chaoqun	Soochow University	
Zhou, HaiFeng	Soochow University	
Cheng, Xiao	Applied Technology College of Soochow University	
Kuang, Shaolong	Soochow University	
Sun, Lining	Harbin Institute of Technology	
10:25-10:40		Sa1B.3
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Tan, Baosen	Beihang University	
Duan, Wei	School of Biological Science and Medical Engineering, Beihang University	
Kuang, Shaolong	Soochow University	
Liu, Wenyong	Beihang University	
Li, Xiaoming	School of Biological Science and Medical Engineering, Beihang University	
10:40-10:55		Sa1B.4
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Su, Baiquan	Beijing University of Posts and Telecommunications	
Wang, Zehao	Beijing University of Posts and Telecommunications	
Li, Mingchen	Peking University Third Hospital	
Yu, Shi	Beijing University of Posts and Telecommunications	
Li, Han	Beijing University of Posts and Telecommunications	
Gong, Yi	Beijing University of Posts and Telecommunications	
Kuang, Shaolong	Soochow University	
Liu, Wenyong	Beihang University	
Zong, Ye	Beijing Friendship Hospital	
Yao, Wei	Peking University Third Hospital	
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Zhang, Yinghao	Beihang University	
Sun, Zhen	Beihang University	
Lu, Chunheng	Beihang University	
Wang, Junchen	Beihang University	

11:10-11:25	Sa1B.6
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Su, Baiquan	Beijing University of Posts and Telecommunications
Gong, Yi	Beijing University of Posts and Telecommunications
Yu, Shi	Beijing University of Posts and Telecommunications
Li, Han	Beijing University of Posts and Telecommunications
Wang, Zehao	Beijing University of Posts and Telecommunications
Liu, Wenyong	Beihang University
Wang, Junchen	Beihang University
Kuang, Shaolong	Soochow University
Yao, Wei	Peking University Third Hospital
Tang, Jie	Beijing Tian Tan Hospital, Capital Medical University

Sa2A

Learning (Regular Sessions)

Chair: He, Li Guangdong University of Technology

11:30-11:45 Sa2A.1

[A Learning from Demonstration Method for Robotic Assembly with a Dual-Sub-6-DoF Parallel Robot](#), pp. 73-78.

Attachment

Hu, Haopeng	Harbin Institute of Technology, Shenzhen
Zhao, Zhilong	Harbin Institute of Technology, Shenzhen
Yang, Xiansheng	Harbin Institute of Technology, Shenzhen
Lou, Yunjiang	Harbin Institute of Technology, Shenzhen

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Ren, Hongwei	Southern University of Science and Technology
Li, Chenghao	Southern University of Science and Technology
Zhang, Xinyi	Southern University of Science and Technology
Ding, Chenchen	Southern University of Science and Technology
Man, Changhai	Southern University of Science and Technology
Yu, Hao	Southern University of Science and Technology

12:00-12:15 Sa2A.3

[TSD: A New Dataset for Shadow Detection of Transparent Objects](#), pp. 86-91.

Lu, Di	Yanshan University
Yan, Zuwei	Yanshan University
Xu, Chengrui	Yanshan University
Li, Jiaqi	Yanshan University
Zhang, Rui	Beijing Ironman Technology Co., Ltd
Wen, Shuhuan	Yanshan University

12:15-12:30 Sa2A.4

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Xia, Wei	Donghua University
Liu, Huashan	Donghua University

Sa2B

New Generation Unmanned Underwater Vehicle System and Artificial Intelligence Technology (OS)

Chair: ji, Daxiong Zhejiang University
 Organizer: ji, Daxiong Zhejiang University

11:30-11:45 Sa2B.1

[Simulation of Vertical Water Exit of Rotor Unmanned Aerial/Underwater Vehicle Based on STAR-CCM+* \(I\)](#), pp. 98-103.

ji, Daxiong	Zhejiang University
Wang, Xinwei	Zhejiang University
Wang, Rui	Zhejiang University
Cheng, Huifang	Zhejiang University
Guo, Feijun	Zhejiang International Marine Vocational and Technical College
Liu, Tiejun	The State Key Laboratory of Robotics

Zhu, Xinke	The Second Institute of Oceanography (SIO)
11:45-12:00	Sa2B.2
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ji, Daxiong	Zhejiang University
Zhou, Jialong	Zhejiang University
Xu, Minghui	Zhejiang University
Ye, Zhangying	Zhejiang University
Zhu, Songming	Zhejiang University
12:00-12:15	Sa2B.3
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ji, Daxiong	Zhejiang University
Cheng, Huifang	Zhejiang University
Zhou, Shuai	Zhejiang University
Zhai, Yangyang	Zhejiang University
Ye, Zhangying	Zhejiang University
Liu, Tiejun	The State Key Laboratory of Robotics
Zhu, Xinke	The Second Institute of Oceanography (SIO)
12:15-12:30	Sa2B.4
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Shi, Kai	Shenyang Institute of Automation, Chinese Academy of Sciences
Wang, Xiaohui	Shenyang Institute of Automation, Chinese Academy of Sciences
Xu, Huixi	Shenyang Institute of Automation, Chinese Academy of Sciences

Sa3A

Medical Robotics (Regular Sessions)

Chair: Zhang, Xiaodong	Xi'an Jiaotong University
14:00-14:15	Sa3A.1
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Ji, Yiming	Beihang University
Dai, Yuguo	Beihang University
Chen, Dixiao	Beihang University
Gan, Chunyuan	Beihang University
Wang, Luyao	Beihang University
Feng, Lin	Beihang University
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<u>Attachment</u>	
Xiao, Songjie	Zhejiang University
wang, chaojun	The Zhejiang University/University of Illinois at Urbana-Champaign Institute
Shi, Yunze	The Zhejiang University/University of Illinois at Urbana-Champaign Institute
Yu, Jiawei	Zhejiang University
Xiong, Linfei	MGI Tech Co., Ltd
Peng, Chengzhong	People's Hospital of Hangzhou Medical College
Yang, Liangjing	Zhejiang University
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Wei, Junyi	University of Essex
Song, Li	Beihang University
Wang, Xinyang	Beihang University, School of Mechanical Engineering and Automation
Zhao, Jiawei	Beihang University, School of Mechanical Engineering and Automation
Feng, Lin	Beihang University
14:45-15:00	Sa3A.4
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Wang, Wentong	Beihang University
Zhan, Guangdong	Beihang University
Wei, Junyi	University of Essex
Song, Li	Beihang University
Feng, Lin	Beihang University

15:00-15:15		Sa3A.5
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Cao, Yuqing		Beihang University
Liang, Shuzhang		Beihang University
Feng, Lin		Beihang University
15:15-15:30		Sa3A.6
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Zhang, Xiaodong		Xi'an Jiaotong University
Li, Mingyang		Xi'an Jiaotong University
Feng, Xiaojing		Xi'an Jiaotong University
Zhang, Hongbing		The First Affiliated Hospital of Northwestern University
Sa3B		
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Chair: Zhu, Xiaocong		Zhejiang University
14:00-14:15		Sa3B.1
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Yin, Pengbo	Beijing Spacecrafts, China Academy of Space Technology	
tang, xiaojun	Beijing Spacecrafts, China Academy of Space Technology	
yang, fenglong	Beijing Spacecrafts, China Academy of Space Technology	
Zhan, Xiong		Tongji University
Xu, Jian		Tongji University
hui, tianli	Beijing Spacecrafts, China Academy of Space Technology	
14:15-14:30		Sa3B.2
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yuan, xianwei		Harbin Institute of Technology, Shenzhen
Jie, Pengyu		Harbin Institute of Technology, Shenzhen
Meng, Yuhao		Harbin Institute of Technology, Shenzhen
Zhou, Haiping	Beijing Research Institute of Precise Mechatronics and Controls	
Li, Ke	Beijing Research Institute of Precise Mechatronics and Controls	
Chen, Guangzeng		Harbin Institute of Technology, Shenzhen
Lou, Yunjiang		Harbin Institute of Technology, Shenzhen
14:30-14:45		Sa3B.3
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Zhu, Xiaocong		Zhejiang University
Cianyi, Yannick		Zhejiang University
Cao, Jian		Zhejiang University
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Tao, Yong	Beijing University of Aeronautics and Astronautics	
GAO, HE		Beihang University
Wen, Yufang		Beihang University
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<i>A Method for Solving TSP of Steel Pylon Inspection by Magnetic Adsorption Robots Based on Improved Ant Colony Optimization</i> , pp. 188-194.		
Tao, Yong	Beijing University of Aeronautics and Astronautics	
Wen, Yufang		Beihang University
GAO, HE		Beihang University
15:15-15:30		Sa3B.6
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Jiang, Zhibin		Chinese Academy of Sciences
Li, Shuo	Shenyang Institute of Automation, Chinese Academy of Sciences	

Liu, Tiejun
Qi, Sheng
Wang, Yaxing

Shenyang Institute of Automation, Chinese Academy of Sciences
Shenyang Institute of Automation, Chinese Academy of Sciences
Shenyang Institute of Automation, Chinese Academy of Sciences

Sa4A	
Robot Design and Applications (Regular Sessions)	
Chair: Song, Changhui	Westlake University
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Wei, Xiaoyong	Nanjing University of Aeronautics and Astronautics
Zhang, Yingxuan	Nanjing University of Aeronautics and Astronautics
Ju, Feng	Nanjing University of Aeronautics and Astronautics
Guo, Hao	Nanjing University of Aeronautics and Astronautics
Chen, Bai	Nanjing University of Aeronautics and Astronautics
Wu, Hongtao	Nanjing University of Aeronautics and Astronautics
15:50-16:05	Sa4A.2
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Song, Changhui	Westlake University
16:05-16:20	Sa4A.3
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yang, fengyufan	Xi'an Jiaotong-Liverpool University
Wang, Lizhe	Xi'an Jiaotong-Liverpool University
Chen, Min	Xi'an Jiaotong-Liverpool University
Zhang, Quan	Xi'an Jiaotong-Liverpool University
16:20-16:35	Sa4A.4
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Zhang, Hao	Beijing University of Civil Engineering and Architecture
qin, jianjun	Beijing University of Civil Engineering and Architecture
gao, lei	Beijing University of Civil Engineering and Architecture
Cao, Yu	Beijing University of Civil Engineering and Architecture
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Zhao, Guangyu	Changchun University of Science and Technology
Yang, Yang	Changchun University of Science and Technology
Ma, Jinrong	Changchun University of Science and Technology
Sa4B	
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Chair: He, Li	Guangdong University of Technology
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Lu, Yong	DIAS
Yang, Diange	Tsinghua University
Yang, Jingning	DIAS
He, Yichao	DIAS
Tian, He	DIAS
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Chen, Lina	Changchun University of Science and Technology
Yang, Yang	Changchun University of Science and Technology
Zhu, Wendi	Changchun University of Science and Technology
Li, Mingsheng	Changchun University of Science and Technology
Guo, Hongxi	Changchun University of Architecture and Civil Engineering
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Wang, Haixia	Applied Technology College of Soochow University

zhang, bing
Cheng, Xiao
QIU, JINYANG

UJS
Applied Technology College of Soochow University
Applied Technology College of Soochow University

16:20-16:35

Sa4B.4

Fault Detection of Linear Stochastic Systems in Network Environment, pp. 253-258.

Zheng, Chunshuo
Yang, Yang
Li, Mingsheng
Gao, Wenjun

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Changchun University of Science and Technology
Changchun University of Science and Technology
Changchun University of Science and Technology

16:35-16:50

Sa4B.5

A QoS Fair Assurance Scheduling Algorithm Based on Q-Learning, pp. 259-264.

Wang, Zhen
Duan, Jin
Yao, Anni

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