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# Intelligent Robotics and Applications

12th International Conference, ICIRA 2019  
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# Preface

On behalf of the Organizing Committee, we welcome you to the proceedings of the 12th International Conference on Intelligent Robotics and Applications (ICIRA 2019), organized by Shenyang Institute of Automation, Chinese Academy of Sciences, co-organized by Huazhong University of Science and Technology, Shanghai Jiao Tong University, and the University of Portsmouth, technically co-sponsored by the National Natural Science Foundation of China and Springer, and financially sponsored by Shenyang Association for Science and Technology. ICIRA 2019 with the theme of “Robot Era” offered a unique and constructive platform for scientists and engineers throughout the world to present and share their recent research and innovative ideas in the areas of robotics, automation, mechatronics, and applications.

ICIRA 2019 was most successful this year in attracting more than 500 submissions regarding the state-of-the-art development in robotics, automation, and mechatronics. The Program Committee undertook a rigorous review process for selecting the most deserving research for publication. Despite the high quality of most of the submissions, a total of 378 papers were selected for publication in six volumes of Springer’s *Lecture Notes in Artificial Intelligence* a subseries of *Lecture Notes in Computer Science*. We sincerely hope that the published papers of ICIRA 2019 will prove to be technically beneficial and constructive to both the academic and industrial community in robotics, automation, and mechatronics. We would like to express our sincere appreciation to all the authors, participants, and the distinguished plenary and keynote speakers.

The success of the conference is also attributed to the Program Committee members and invited peer reviewers for their thorough review of all the submissions, as well as to the Organizing Committee and volunteers for their diligent work. Special thanks are extended to Alfred Hofmann, Anna Kramer, and Volha Shaparava from Springer for their consistent support.

August 2019

Haibin Yu  
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# Contents – Part VI

## Robot Motion Analysis and Planning

Research on Optimization of Control Parameters of Coal Sampling Robot Based on Model and Neural Network Algorithm. . . . .	3
<i>Xiaodong Liu, Haibo Xu, Jun Wang, Rui Wang, and Li Liu</i>	
A Cooperative Obstacle-Avoidance Approach for Two-Manipulator Based on A* Algorithm. . . . .	16
<i>Jinlong Zhao, Yongsheng Chao, and Yiping Yuan</i>	
Workspace Simulation and Analysis of a Dual-Arm Nursing Robot. . . . .	26
<i>Libo Zhang, Su Wang, and Xingang Miao</i>	
A Path Planning Method Under Constant Contact Force for Robotic Belt Grinding. . . . .	35
<i>Tao Wang, Huan Zhao, Qianlong Xie, Xiangfei Li, and Han Ding</i>	
Large Contact Area Trajectory Planning Algorithm for Fuel Tank with Irregular Surfaces. . . . .	50
<i>Xing Fan, Haibo Xu, Wenyu Huang, and Yufeng Lin</i>	
A General Kinematics Model for Trajectory Planning of Upper Limb Exoskeleton Robots. . . . .	63
<i>Qiaoling Meng, Qiaolian Xie, Zhimeng Deng, and Hongliu Yu</i>	
A Modified Cartesian Space DMPs Model for Robot Motion Generation. . . . .	76
<i>Nailong Liu, Zhaoming Liu, and Long Cui</i>	
Robot Brush-Writing System of Chinese Calligraphy Characters. . . . .	86
<i>Jie Li, Huasong Min, Haotian Zhou, and Hongcheng Xu</i>	
Robot Workspace Optimization and Deformation Compensation in Grinding. . . . .	97
<i>Xiaoteng Zhang, Bing Chen, Junde Qi, and Zhiyang Niu</i>	
A Methodology for Multi-goal Trajectory Planning in Welding. . . . .	110
<i>Nianfeng Wang, Yaoqiang He, and Xianmin Zhang</i>	
Kinematics Solution and Workspace Analysis of a Seven (DOF) Redundant Manipulator. . . . .	124
<i>Cunfeng Kang, Juan Wu, Shizheng Zhang, Ting Miao, and Guanchen Zong</i>	

A Posture Planning Method in Clustered Synergy Subspace for HIT/DLR Hand II . . . . .	134
<i>Li Jiang, Bingchen Liu, Shaowei Fan, and Hong Liu</i>	
Continuous Path Planning for Free-Floating Space Manipulator Based on Genetic Algorithm . . . . .	146
<i>Long Zhang</i>	
Simulation Analysis of Trajectory Planning for Robot-Assisted Stereotactically Biological Printing . . . . .	154
<i>Wanru Fei, Baosen Tan, Shaolong Kuang, Yubo Fan, and Wenyong Liu</i>	
Adaptive Hybrid Impedance Control Algorithm Based on Subsystem Dynamics Model for Robot Polishing . . . . .	163
<i>Zihao Luo, Jianfei Li, Jie Bai, Yaobing Wang, and Li Liu</i>	
<b>Robot Design, Development and Control</b>	
Design of Wall Climbing Robot with Non-magnetic Surface . . . . .	179
<i>Liang Zhao, Chunlong Liu, Shaoyun Zhou, Deyong Zhu, and Chuang Liu</i>	
Kinematic Analysis and Speed Control of 3SPS-1S Parallel Mechanism for End Actuator of Segment Erector. . . . .	190
<i>Wang Lintao, Li Ji, and Zhao Lei</i>	
The Design of 3-D Space Electromagnetic Control System for High-Precision and Fast-Response Control of Capsule Robot with 5-DOF . . .	202
<i>Li Song, Xiuping Yang, Hang Hu, Guanya Peng, Wenxuan Wei, Yuguo Dai, and Lin Feng</i>	
Design of Finger Exoskeleton Rehabilitation Robot Using the Flexible Joint and the MYO Armband . . . . .	213
<i>Jianxi Zhang, Jianbang Dai, Sheng Chen, Guozheng Xu, and Xiang Gao</i>	
Design and Implementation of Hovering Flapping Wing Micro Air Vehicle . . .	226
<i>Jiaxiang Li, Chao Wang, Jin Liu, Peng Xie, and Chaoying Zhou</i>	
Design of Embedded Structure Variable Stiffness Pneumatic Actuator . . . . .	234
<i>Yiqing Li, Wen Zhou, Yan Cao, and Feng Jia</i>	
Bionic Design and Attitude Control Measurement in a Double Flapping-Wing Micro Air Vehicle. . . . .	240
<i>Xuedong Zhang, Huichao Deng, Shengjie Xiao, Lili Yang, and Xilun Ding</i>	

Design and Simulation of Heavy Load Wheeled Mobile Robot Driving Mechanism . . . . .	255
<i>Yang Zhang, Zhi-gang Xu, Song-kai Liu, and Qing-yun Wang</i>	
Dynamics Analysis of the Human-Machine System of the Assistive Gait Training Robot . . . . .	273
<i>Tao Qin, Xin Meng, Jinxing Qiu, Dingjian Zhu, and Jianwei Zhang</i>	
<b>Medical Robot</b>	
A Noninvasive Calibration-Free and Model-Free Surgical Robot for Automatic Fracture Reduction . . . . .	285
<i>Shijie Zhu, Yitong Chen, Yu Chen, Jiawei Sun, Zhe Zhao, Changping Hu, and Gangtie Zheng</i>	
Force Modeling of Tool-Tissue Interaction Force During Suturing. . . . .	297
<i>Shuai Gao, Shijun Ji, Mei Feng, Qiumeng Li, Xiuquan Lu, Zhixue Ni, and Yan Li</i>	
Minimally Invasive Instrument Joint Design Based on Variable Stiffness of Transmission Efficiency . . . . .	310
<i>Longkai Chen, Fan Zhang, Guohua Cui, Jing Sun, Minhua Zheng, and Ruijun Pan</i>	
<b>Robot Intelligence, Learning and Linguistics</b>	
A Hybrid Path Planning Method for Mobile Robot Based on Artificial Potential Field Method. . . . .	325
<i>Haiyi Kong, Chenguang Yang, Zhaojie Ju, and Jinguo Liu</i>	
Towards End-to-End Speech Recognition with Deep Multipath Convolutional Neural Networks . . . . .	332
<i>Wei Zhang, Minghao Zhai, Zilong Huang, Chen Liu, Wei Li, and Yi Cao</i>	
Robot Intelligent Trajectory Planning Based on PCM Guided Reinforcement Learning . . . . .	342
<i>Xiang Teng, Jian Fu, Cong Li, and Zhaojie Ju</i>	
Fast Robot Motor Skill Acquisition Based on Bayesian Inspired Policy Improvement . . . . .	356
<i>Jian Fu, Siyuan Shen, Ce Cao, and Cong Li</i>	
Control of Nameplate Pasting Robot for Sand Mold Based on Deep Reinforcement Learning . . . . .	368
<i>Guiben Tuo, Te Li, Haibo Qin, Bin Huang, Kuo Liu, and Yongqing Wang</i>	

Robot Motor Skill Acquisition with Learning in Two Spaces . . . . . 379  
*Jian Fu, Ce Cao, Jinyu Du, and Siyuan Shen*

**Motion Control**

Way-Point Tracking Control of Underactuated USV Based on GPC  
 Path Planning . . . . . 393  
*Tao Jiang, Yi Yang, Huizi Chen, Xu Wang, and Dan Zhang*

Neural Networks-Based PID Precision Motion Control  
 of a Piezo-Actuated Microinjector . . . . . 407  
*Yizheng Yan and Qingsong Xu*

Force/Motion Hybrid Control of Three Link Constrained Manipulator  
 Using Sliding Mode . . . . . 419  
*Sheng Gao, Wei Zhang, Weiguo Kong, Hucun Ren, and Bopi Jin*

**Computer Integrated Manufacturing**

Development of Workshop Management System for Assembly  
 Production Process . . . . . 435  
*Pengfei Zeng, Yuyu Hao, Changwu Wu, Chunjing Shi,  
 and Yongping Hao*

Dynamic Scheduling of Dual-Resource Constrained Blocking Job Shop. . . . . 447  
*Ze Tao and Xiaoxia Liu*

Study on No-Wait Flexible Flow Shop Scheduling with Multi-objective . . . . . 457  
*Ze Tao and Xiaoxia Liu*

Dynamic Behavior Analysis and Multi-sensor Modal Information  
 Fusion for Robotic Milling System . . . . . 469  
*Daxian Hao, Wei Wang, Gang Zhang, Qilong Wang, and Chao Yun*

Adaptive Impedance Control for Robotic Polishing with an Intelligent  
 Digital Compliant Grinder . . . . . 482  
*Qianlong Xie, Huan Zhao, Tao Wang, and Han Ding*

**Robot Cooperation**

Path Planning of UAV-UGV Heterogeneous Robot System  
 in Road Network . . . . . 497  
*Mengqing Chen, Yang Chen, Zhihuan Chen, and Yanhua Yang*

Automatic Programming for Dual Robots to Grinding Intersecting Curve. . . . . 508  
*Shibo Han, Xingwei Zhao, Qi Fan, and Bo Tao*

## Virtual and Augmented Reality

- A HoloLens Based Augmented Reality Navigation System for Minimally Invasive Total Knee Arthroplasty . . . . . 519  
*Li Wang, Zewen Sun, Xiaohui Zhang, Zhen Sun, and Junchen Wang*
- R-3RPS Robot-Based Mathematical Modeling for a Military Flight Simulator . . . . . 531  
*Cristhian Guerrón, Wilbert G. Aguilar, Rolando P. Reyes Ch., Nicolás Pinto, Santiago Chamorro, and Manolo Paredes*

## Education in Mechatronics Engineering

- Innovation Ability Cultivation Quality Evaluation Model of Postgraduate Students Majoring in Mechatronics Engineering . . . . . 545  
*Diankui Gao, Kexin Li, Bin Zhao, and Lizhi Xu*
- DOREP: An Educational Experiment Platform for Robot Control Based on MATLAB and the Real-Time Controller . . . . . 555  
*Guanghui Liu, Bing Han, Qingxin Li, Shuai Wang, and Hualiang Zhang*

## Robotic Drilling and Sampling Technology

- Design and Analysis of Motor Control System for Drilling Fluid Continuous Wave Generator Based on Improved Active Disturbance Rejection Control and Hysteresis Current Control . . . . . 569  
*Botao Zhou, Jiafeng Wu, Ning Han, and Mwelango Martin*
- Trajectory Planning Based on Optimal Control and Exact Derivatives . . . . . 580  
*Xiaodong Zhang, Ling Tu, Jiafeng Wu, and Shurong Li*

## Automotive Systems

- Co-simulation Based on ADAMS and Simulink for Direct Yaw Moment Control System of 4WD-EV . . . . . 595  
*Wang Yaping, Zhang Liping, Cao Sen, and Zhang Zheng*
- Simulation Analysis of PID Closed-Loop Control of Current of SBW . . . . . 607  
*Zhanfeng Li and Shuang Du*

## Mechatronics in Energy Systems

- Characteristic Analysis and Disturbance Control of Hydraulic Transmission System for Driving Torque Extraction Electric Power Generation in Coal Sampling Robot. . . . . 617  
*Haibo Xu, Li Liu, Jun Wang, Rui Wang, and Xiaodong Liu*

**Human-Robot Interaction**

Appearance-Based Gaze Tracking: A Brief Review . . . . . 629  
*Jiaqi Jiang, Xiaolong Zhou, Sixian Chan, and Shengyong Chen*

Language and Robotics: Complex Sentence Understanding. . . . . 641  
*Seng-Beng Ho and Zhaoxia Wang*

Dynamic Motion Planning Algorithm in Human-Robot Collision  
Avoidance . . . . . 655  
*Lei Zhu, Zijing Chi, Fan Zhou, and Chungang Zhuang*

Dynamics Modeling of a 2-DOFs Mechanism with Rigid Joint  
and Flexible Joint . . . . . 667  
*Yanlin Chen, Baizhe Song, Xianmin Zhang, and Yanjiang Huang*

Haptic Joystick Impedance Control with Gravity Compensation . . . . . 679  
*Yong-Jin Ock, Zhan-Ming Gu, Jong-Woo An, and Jang-Myung Lee*

Landmark-Based Virtual Path Estimation for Assisted UAV FPV  
Tele-Operation with Augmented Reality. . . . . 688  
*Santiago Grijalva and Wilbert G. Aguilar*

Concurrent Probabilistic Motion Primitives for Obstacle Avoidance  
and Human-Robot Collaboration. . . . . 701  
*Jian Fu, ChaoQi Wang, JinYu Du, and Fan Luo*

**Author Index** . . . . . 715