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Technical Program of 2014 IEEE International Conference on Automation Science and Engineering

Technical Program for Tuesday August 19, 2014

TuBP1	Lotus
Best Conference/Application Paper Award Competition (Award Finalists Session)	
Chair: Fu, Li-Chen	National Taiwan Univ.
08:30-08:50	TuBP1.1
<i>A Simulation Based GA for Multi-Objective Optimization in Patient Flow Distribution (I)</i> , pp. 1-6.	
Qiu, Yunzhe	Peking Univ
Song, Jie	Peking Univ
Liu, Zekun	Department of Scientific & Engineering Computing, School of Math
08:50-09:10	TuBP1.2
<i>A Faster Branch-And-Bound Algorithm for the Block Relocation Problem</i> , pp. 7-12.	
Tanaka, Shunji	Kyoto Univ
Takii, Kenta	Kyoto Univ
09:10-09:30	TuBP1.3
<i>Analysis and Improvement of Batch-Based Production Lines with Bernoulli Machines (I)</i> , pp. 13-18.	
Jia, Zhiyang	Univ. of Connecticut
Zhang, Liang	Univ. of Connecticut
Arinez, Jorge	General Motors Res. & Development Center
Xiao, Guoxian	General Motors Corp
09:30-09:50	TuBP1.4
<i>Optimized Task Distribution for Industrial Assembly in Mixed Human-Robot Environments – Case Study on IO Module Assembly (I)</i> , pp. 19-24.	
Ding, Hao	ABB Corp. Res. Center Germany
Schipper, Malte	ABB Automation GmbH
Matthias, Björn	ABB AG, Corp. Res. Center Germany
09:50-10:10	TuBP1.5
<i>Predictive Modeling of Geometric Deviations of 3D Printed Products -- a Unified Modeling Approach for Cylindrical and Polygon Shapes (I)</i> , pp. 25-30.	
Huang, Qiang	Univ. of Southern California
Hadis, Nouri	Univ. of Southern California
Xu, Kai	Univ. of Southern California
Chen, Yong	Univ. of Southern California
Sosina, Sobambo	Harvard Univ
Dasgupta, Tirthankar	Harvard Univ
10:10-10:30	TuBP1.6
<i>Development and Validation of an Automated Steering Control System for Bus Revenue Service (I)</i> , pp. 31-36.	
Tan, Han-Shue	Univ. of California at Berkeley
Huang, Jihua	Univ. of California at Berkeley
Zhang, Wei-Bin	Univ. of California at Berkeley

TuAT1		Lily
Power and Energy Systems (Regular Session)		
Chair: Ozana, Stepan		VSB-Tech. Univ. of Ostrava
Co-Chair: Nagata, Takeshi		Hiroshima Inst. of Tech.
13:00-13:20		TuAT1.1
<i>A Self-Governing, Decentralized, Extensible Internet of Things to Share Electrical Power Efficiently</i> , pp. 37-43.		
Maior, Horia Alexandru		Univ. of Nottingham
Rao, Shrisha		International Inst. of Information Tech. -Bangalore
13:20-13:40		TuAT1.2
<i>Heat Energy Collection from Thermally Active Mining Dump Hedvika</i> , pp. 44-49.		
Hajovsky, Radovan		VSB-Tech. Univ. of Ostrava
Pies, Martin		VSB-Tech. Univ. of Ostrava, FEECS, Dep. 450
Ozana, Stepan		VSB-Tech. Univ. of Ostrava
Hajovsky, Jiri		SG-Geoinzenyring, S.r.o
13:40-14:00		TuAT1.3
<i>Electric Power Interchange between Micro-Grids by Using Multi-Agent Approach</i> , pp. 50-55.		
Nagata, Takeshi		Hiroshima Inst. of Tech
Okamoto, Kazuya		Hiroshima Insutitute of Tech
14:00-14:20		TuAT1.4
<i>Automated Segmentation and Characterization of Ion-Abrasion Scanning Electron Microscopy Fuel Cell Images</i> , pp. 56-60.		
Renfrew, Mark		Case Western Res. Univ
Hilli, Naima		Case Western Res. Univ
Heuer, Arthur		Case Western Res. Univ
Cavusoglu, M. Cenk		Case Western Res. Univ
14:20-14:40		TuAT1.5
<i>Predictive Control of the Engine Cooling System for Fuel Efficiency Improvement</i> , pp. 61-66.		
Khodabakhshian, Mohammad		KTH Royal Inst. of Tech
Feng, Lei		KTH Royal Inst. of Tech
Wikander, Jan		Royal Inst. of Tech. -KTH
14:40-15:00		TuAT1.6
<i>Mechanism Design for Sustainable Virtual Power Plant Formation</i> , pp. 67-72.		
Biswas, Shantanu		Infosys Tech. Ltd
Bagchi, Deepak		Infosys
Yadati, Narahari		Indian Inst. of Science

TuAT2		Narcissus
Quantitative Methods in Semiconductor Manufacturing I (Special Session)		
Chair: Morrison, James		KAIST
Co-Chair: Yugma, Claude		Ec. des Mines de Saint-Etienne
Organizer: Morrison, James		KAIST
Organizer: Moench, Lars		Univ. of Hagen
13:00-13:20		TuAT2.1
<i>Requirement Analysis and Design of CTC Systems with Exceptions (I)</i> , pp. N/A		
Kim, Ja-Hee		Seoul National Univ. of Tech
Jeong, So ra		SW Analysis and Design Dept., SeoulTech
13:20-13:40		TuAT2.2
<i>Optimal Scheduling of Single-Arm Multi-Cluster Tools with Two-Space Buffering Modules (I)</i> , pp. 75-80.		
Yang, Fajun		Guangdong Univ. of Tech
Wu, Naiqi		Guangdong Univ. of Tech
Qiao, Yan		Guangdong Univ. of Tech
Zhou, MengChu		New Jersey Inst. of Tech
13:40-14:00		TuAT2.3
<i>Modeling and Schedulability Analysis of Single-Arm Multi-Cluster Tools with Residency Time Constraints Via Petri Nets (I)</i> , pp. 81-86.		
Zhu, Qinghua		GuangDong Univ. of Tech
Wu, Naiqi		Guangdong Univ. of Tech
Qiao, Yan		Guangdong Univ. of Tech
Zhou, MengChu		New Jersey Inst. of Tech
14:00-14:20		TuAT2.4
<i>ACO-ICSA Based Scheduling of Re-Entrant Manufacturing System with Mix-Processing Style (I)</i> , pp. 87-92.		
Li, Li		Tongji Univ
Yu, Qingyun		Tongji Univ
14:20-14:40		TuAT2.5
<i>Integration of Scheduling and Advanced Process Control in Semiconductor Manufacturing: Review and Outlook (I)</i> , pp. 93-98.		
Yugma, Claude		Ec. Des Mines De Saint-Etienne
Blue, Jakey		Ec. Nationale Supérieure Des Mines De Saint-Etienne
Dauzere-Peres, Stephane		France-Ec. Des Mines De Saint-Etienne - Centre Microélectroniq
Vialletelle, Philippe		STMicroelectronics
14:40-15:00		TuAT2.6
<i>Cycle Time and Throughput Models of Clustered Photolithography Tools for Fab-Level Simulation (I)</i> , pp. N/A.		
Park, Kyungsu		Kaist
Morrison, James		Kaist

TuAT3		Jasper
Computational Intelligence in Scheduling (Special Session)		
Chair: Wang, Ling		Tsinghua Univ.
Co-Chair: Gen, Mitsuo		Fuzzy Logic Systems Inst.
Organizer: Wang, Ling		Tsinghua Univ.
Organizer: Gen, Mitsuo		Fuzzy Logic Systems Inst.
Organizer: Chien, Chen-Fu		National Tsing Hua Univ.
13:00-13:20		TuAT3.1
<i>Hybrid Estimation of Distribution Algorithm with Multiple Subpopulations for Semiconductor Manufacturing Scheduling Problem with Limited Waiting-Time Constraint (I)</i> , pp. 101-106.		
Wang, Hung-Kai		National Tsing Hua Univ
Chien, Chen-Fu		National Tsing Hua Univ
Gen, Mitsuo		Fuzzy Logic Systems Inst
13:20-13:40		TuAT3.2
<i>A Competitive Memetic Algorithm for the Distributed Flow Shop Scheduling Problem (I)</i> , pp. 107-112.		
Deng, Jin		Tsinghua Univ
Wang, Ling		Tsinghua Univ
Wang, Shengyao		Tsinghua Univ
13:40-14:00		TuAT3.3
<i>Compact Estimation of Distribution Algorithm for Semiconductor Final Testing Scheduling Problem (I)</i> , pp. 113-118.		
Wang, Shengyao		Tsinghua Univ
Wang, Ling		Tsinghua Univ
14:00-14:20		TuAT3.4
<i>Hybrid Metaheuristics for Solving the Quadratic Assignment Problem and the Generalized Quadratic Assignment Problem (I)</i> , pp. 119-124.		
Gunawan, Aldy	Living Analytics Res. Centre, School of Information Systems,	
Ng, Kien Ming	National Univ. of Singapore	
Poh, Kim Leng	Industrial and Systems Engineering Department, National Univ	
Lau, Hoong Chuin	Singapore Management Univ	
14:20-14:40		TuAT3.5
<i>A Hybrid Particle Swarm Optimization and Simulated Annealing Algorithm for Job-Shop Scheduling (I)</i> , pp. 125-130.		
Tao, Fei		Beihang Univ
Ma, Pingchuan		Beihang Univ
14:40-15:00		TuAT3.6
<i>An Effective Markov Network Based EDA for Flexible Job Shop Scheduling Problems under Uncertainty (I)</i> , pp. 131-136.		
Hao, Xinchang	Graduate School of Information, Production and Systems, Waseda	U
Lin, Lin	The School of Software, Dalian Univ. of Tech.	Dalian
Gen, Mitsuo		Fuzzy Logic Systems Inst
Chien, Chen-Fu		National Tsing Hua Univ

TuAT4		Emerald
Electrical/Hybrid Vehicle and Energy Management Systems (Special Session)		
Chair: Zhang, Liang		Univ. of Connecticut
Co-Chair: Li, Jingshan		Univ. of Wisconsin - Madison
Organizer: Zhang, Liang		Univ. of Connecticut
Organizer: Han, Yehui		Univ. of Wisconsin-Madison
Organizer: Wu, Jian		Jilin Univ.
13:00-13:20		TuAT4.1
<i>EV Charging Load Scheduling Following Uncertain Renewable Energy Supply by Stochastic Matching (I)</i> , pp. 137-142.		
Huang, Qilong		Tsinghua Univ
Jia, Qing-Shan		Tsinghua Univ
Xia, Li		Tsinghua Univ
Guan, Xiaohong		Xi'an Jiaotong Univ
Xie, Xiaolan		Ec. Des Mines De Saint Etienne
13:20-13:40		TuAT4.2
<i>Review of Structures and Control of Battery-Supercapacitor Hybrid Energy Storage System for Electric Vehicles (I)</i> , pp. 143-148.		
Ju, Feng		Univ. of Wisconsin - Madison
Zhang, Qiao		Jilin Univ
Deng, Weiwen		Jilin Univ
Li, Jingshan		Univ. of Wisconsin - Madison
13:40-14:00		TuAT4.3
<i>Optimization on the Infrastructure of the Multiple Route On-Line Electric Vehicle System (I)</i> , pp. N/A.		
Hwang, Illhoe		Kaist
Jang, Young Jae		Korea Advanced Inst. of Science and Tech
14:00-14:20		TuAT4.4
<i>Analysis of Multi-Location PEV Charging Behaviors Based on Trip Chain Generation (I)</i> , pp. 151-156.		
Wang, Dai		Xi'an Jiaotong Univ
Guan, Xiaohong		Xi'an Jiaotong Univ
Wu, Jiang		Xian Jiaotong Univ
Gao, Junyu		Xi'an Jiaotong Univ
14:20-14:40		TuAT4.5
<i>Power Electronics Management Structure on Battery Cells (I)</i> , pp. N/A.		
Han, Yehui		Univ. of Wisconsin-Madison
Zhang, Liang		Univ. of Connecticut
14:40-15:00		TuAT4.6
<i>System-Theoretic Analysis of Battery Systems During Equalization, Charging, and Discharging (I)</i> , pp. 158-163.		
Han, Weiji		Univ. of Connecticut
Zhang, Liang		Univ. of Connecticut
Han, Yehui		Univ. of Wisconsin-Madison

TuAT5		Coral
Recent Developments on Advanced Mechatronic Systems (Special Session)		
Chair: Deng, Mingcong	Tokyo Univ. of Agriculture and Tech.	
Co-Chair: Yamamoto, Toru	Hiroshima Univ.	
Organizer: Deng, Mingcong	Tokyo Univ. of Agriculture and Tech.	
Organizer: Yamamoto, Toru	Hiroshima Univ.	
13:00-13:20		TuAT5.1
<i>A Cooling and Heat-Retention System Actuated by Peltier Device Considering Fan-Motor Control (I)</i> , pp. 164-169.		
Hatano, Takafumi	Tokyo Univ. of Agriculture and Tech	
Deng, Mingcong	Tokyo Univ. of Agriculture and Tech	
Wakitani, Shin	Tokyo Univ. of Agriculture and Tech	
13:20-13:40		TuAT5.2
<i>Modeling on the Fluid Temperature Distribution of a Spiral Heat Exchanger (I)</i> , pp. 170-175.		
Yang, Shuobing	Tokyo Univ. of Agriculture and Tech	
Deng, Mingcong	Tokyo Univ. of Agriculture and Tech	
Frukawa, Kohsuke	Tokyo Univ. of Agriculture and Tech	
13:40-14:00		TuAT5.3
<i>Influences of Lug Motion on Lug-Soil Reaction Forces in Sandy Soil</i> , pp. 176-181.		
Yamamoto, Ryohei		Ritsumeikan Univ
Yang, Yang		Ritsumeikan Univ
Sun, Yi		Ritsumeikan Univ
Ma, Shugen		Ritsumeikan Univ
14:00-14:20		TuAT5.4
<i>Hall-Sensor-Based Orientation Measurement Method in Three-Dimensional Space for Electromagnetic Actuators</i> , pp. 182-187.		
Yan, Liang	Beijing Univ. of Aeronautics and Astronautics	
Zhu, Bo		Beihang Univ
Chen, Chin-Yin		National Applied Res. Lab
Chen, I-Ming		Nanyang Tech. Univ
Jiao, Zongxia		Beihang Univ
14:20-14:40		TuAT5.5
<i>Switching Control of DC-DC Converters with Electric Double-Layer Capacitor Based on Control Performance Index (I)</i> , pp. 188-193.		
Ohnishi, Yoshihiro		Ehime Univ
Yamamoto, Toru		Hiroshima Univ
14:40-15:00		TuAT5.6
<i>Pointwise Stabilization and Control of a Class of Nonlinear Systems Via State-Dependent Transfer Function (I)</i> , pp. N/A.		
Kwadzogah, Roger		Njit
Zhou, MengChu		New Jersey Inst. of Tech
Wang, Xiao Tom		Njit

TuAT6		VIP
Steps Toward Better Design of Industrial Robots (Special Session)		
Chair: Zhang, Jiafan	ABB Corp. Res. Center, China	
Co-Chair: Ding, Hao	ABB Corp. Res. Center Germany	
Organizer: Zhang, Jiafan	ABB Corp. Res. Center, China	
13:00-13:20	TuAT6.1	
<i>A Pilot Study of Dual 7-Axis -Arm Robot in Small Part Assembly Application (I)</i> , pp. 196-201.		
Li, Qingwei	ABB Corp. Res. (China)	
Gu, Hao	ABB Corp. Res. Center	
Wang, Guiping	ABB Engineering (Shanghai) Ltd	
Chi, Zhaofu	ABB Corp. Res. Center	
13:20-13:40	TuAT6.2	
<i>Modeling of Forced Convection Heat Transfer from the Swing Plate on an Industrial Robot (I)</i> , pp. 202-207.		
Lu, Qi	ABB (China) Limited	
Wang, Dexian	Shanghai Univ	
13:40-14:00	TuAT6.3	
<i>A Versatile, Non-Linear and Elasto-Static Stiffness Model of Articulated Industrial Robots (I)</i> , pp. 208-214.		
Kefer, Martin	ABB China Ltd	
Zhang, Jiafan	ABB Corp. Res. Center, China	
Xie, Heng	ABB Engineering (Shanghai) Ltd	
14:00-14:20	TuAT6.4	
<i>An Automatic Assembly Parts Detection and Grasping System for Industrial Manufacturing</i> , pp. 215-220.		
Canali, Carlo	Department of Advanced Robotics, Istituto Italiano Di Tecnologia	
Cannella, Ferdinando	Istituto Italiano Di Tecnologia	
Chen, Fei	Istituto Italiano Di Tecnologia	
Sofia, Giuseppe	IIT Istituto Italiano Tecnologia	
Eytan, Amit	Centro Ricerche Fiat S.C.p.A. Orbassano (TO)	
Caldwell, Darwin G.	Istituto Italiano Di Tecnologia	
14:20-14:40	TuAT6.5	
<i>Teaching a Calligraphy Robot Via a Touch Screen (I)</i> , pp. 221-226.		
Li, Jun	Southeast Univ	
Sun, Wei	Southeast Univ	
Zhou, MengChu	New Jersey Inst. of Tech	
Dai, Xianzhong	South-East Univ	
14:40-15:00	TuAT6.6	
<i>Kinematic Transmission Error Compensation for Path Accuracy Improvement of Flexible Joint Industrial Robot</i> , pp. N/A.		
Niu, Bin	ABB Robotics China	

TuAT7		Jixiang
3D Technology in Robotics (Regular Session)		
Chair: Wu, Chin-Chia		Industrial Tech. Res. Inst.
Co-Chair: Yamazaki, Kimitoshi		Shinshu Univ.
13:00-13:20		TuAT7.1
<i>A Multi-Resolution 3-D Environment Model for Autonomous Planetary Exploration</i> , pp. 229-235. Attachment		
Oberländer, Jan		FZI Forschungszentrum Informatik
Klemm, Sebastian		Res. Center for Information Tech. (FZI)
Heppner, Georg		Forschungszentrum Informatik
Roennau, Arne		FZI Forschungszentrum Informatik
Dillmann, Rüdiger		Karlsruhe Inst. of Tech. (KIT)
13:20-13:40		TuAT7.2
<i>Scaled Indexing of General Shapes for Complicated 3D Motion Recognition</i> , pp. 236-241.		
Yang, Jianyu		Soochow Univ
Xu, Haoran		Soochow Univ
Zhou, Xiaolong		City Univ. of Hong Kong
Li, Y.F.		City Univ. of Hong Kong
13:40-14:00		TuAT7.3
<i>An Object Classification Framework Based on Unmeasurable Area Patterns Found in 3D Range Images</i> , pp. 242-248.		
Matsumoto, Koichiro		Shinshu Univ
Yamazaki, Kimitoshi		Shinshu Univ
14:00-14:20		TuAT7.4
<i>3D Shape Modeling of Movable Parts of Furniture Based on Time-Series Surface Correspondence</i> , pp. 249-254.		
Yamazaki, Kimitoshi		Shinshu Univ
Sogen, Kiyohiro		Toyota Motor Engineering & Manufacturing North America Inc
Yamamoto, Takashi		Toyota Motor Corp
Inaba, Masayuki		The Univ. of Tokyo
14:20-14:40		TuAT7.5
<i>Fitting Superquadrics in Noisy, Partial Views from a Low-Cost RGBD Sensor for Recognition and Localization of Sacks in Autonomous Unloading of Shipping Containers</i> , pp. 255-262. Attachment		
Vaskevicius, Narunas		Jacobs Univ
Pathak, Kaustubh		Jacobs Univ. Bremen
Birk, Andreas		Jacobs Univ
14:40-15:00		TuAT7.6
<i>Manipulation Strategy Learning for Carrying Large Objects Based on Mapping from Object Physical Property to Object Manipulation Action in Virtual Environment</i> , pp. 263-270. Attachment		
Murooka, Masaki		The Univ. of Tokyo
Noda, Shintaro		Unv Tokyo
Nozawa, Shunichi		The Univ. of Tokyo
Kakiuchi, Yohei		The Univ. of Tokyo
Okada, Kei		The Univ. of Tokyo
Inaba, Masayuki		The Univ. of Tokyo

TuAT8		Ruyi
Networked/Mobile Robots and Planning (Regular Session)		
Chair: Liu, Yen-Chen		National Cheng Kung Univ.
Co-Chair: Carpin, Stefano		Univ. of California, Merced
13:00-13:20		TuAT8.1
<i>Passivity-Based Teleoperation System for Robots with Parametric Uncertainty and Communication Delay</i> , pp. 271-276.		
Liu, Yen-Chen		National Cheng Kung Univ
Khong, Mun-Hooi		National Cheng Kung Univ
13:20-13:40		TuAT8.2
<i>Ex-Ante Assessment of Struck-By Safety Hazards in Construction Projects: A Motion-Planning Approach</i> , pp. 277-282.		
Rahman, Md Mahbubur		Florida International Univ
Carmenate, Triana		Florida International Univ
Bobadilla, Leonardo		Florida International Univ
Mostafavi, Ali		Florida International Univ
13:40-14:00		TuAT8.3
<i>A New ROS-Based Hybrid Architecture for Heterogeneous Multi-Robot Systems</i> , pp. N/A.		
Hu, Chunxu		Huazhong Univ. of Science & Tech
Hu, Can		Huazhong Univ. of Science & Tech
He, Dingxin		Huazhong Univ. of Science & Tech
Gu, Qiang		Huazhong Univ. of Science & Tech
14:00-14:20		TuAT8.4
<i>Implementation of Spatial Visualization for a Tele-Operated Robot in a Complex and Hazardous Environment</i> , pp. 285-289.		
Park, SeungHwan		Etri
Lee, Yu-Cheol		Electronics/Telecomm. Res. Inst
Kim, Gon-Woo		Chungbuk National Univ
14:20-14:40		TuAT8.5
<i>Coarse-To-Fine Robot Localization Method Using Radio Fingerprint and Particle Filter</i> , pp. 290-296.		
Lee, Yu-Cheol		Electronics/Telecomm. Res. Inst
Park, Byungjae		Etri
Park, SeungHwan		Etri
14:40-15:00		TuAT8.6
<i>Risk-Aware Path Planning Using Hierarchical Constrained Markov Decision Processes</i> , pp. 297-303.		
Feyzabadi, Seyedshams		UC Merced
Carpin, Stefano		Univ. of California, Merced

TuBT1		Lily
Manufacturing Automation I (Regular Session)		
Chair: Lennartson, Bengt		Chalmers Univ. of Tech.
Co-Chair: Wang, Junfeng		Huazhong Univ. of Science and Tech.
15:20-15:40		TuBT1.1
<i>A Wavelet-Based Characteristic Vector Construction Method for Machining Condition Monitoring</i> , pp. 304-308.		
Liu, Changqing		Nanjing Univ. of Aeronautics and Astronautics
Li, Yingguang		Nanjing Univ. of Aeronautics and Astronautics
Shen, Weiming		National Res. Council of Canada
15:40-16:00		TuBT1.2
<i>An Augmented Reality Based System for Remote Collaborative Maintenance Instruction of Complex Products (I)</i> , pp. 309-314.		
Wang, Junfeng		Huazhong Univ. of Science and Tech
Feng, Yaqing		Huazhong Univ. of Science and Tech
Zeng, Cheng		Huazhong Univ. of Science and Tech
Li, Shiqi		Huazhong Univ. of Science and Tech
16:00-16:20		TuBT1.3
<i>Simulation and Parameter Optimization of the Key Working Procedure of Engine Box (I)</i> , pp. 315-319.		
Zhang, Chengyan		School of Mechanical Engineering, Beijing Inst. of Tech
Lu, Jiping		Beijing Inst. of Tech
Yang, Ruisheng		School of Mechanical Engineering, Beijing Inst. of Tech
Liu, Guancheng		School of Mechanical Engineering, Beijing Inst. of Tech
16:20-16:40		TuBT1.4
<i>An Analytical Estimation for OHT Vehicle Fleet Sizing Problem for Semiconductor Fab</i> , pp. N/A.		
Kim, Junghoon		Korea Advanced Inst. of Science and Tech
Jang, Young Jae		Korea Advanced Inst. of Science and Tech
16:40-17:00		TuBT1.5
<i>Optimisation of Interacting Production Stations Using a Constructive Cooperative Coevolutionary Approach</i> , pp. 322-327.		
Glorieux, Emile		Univ. West
Danielsson, Fredrik		Univ. West
Svensson, Bo		Univ. West
Lennartson, Bengt		Chalmers Univ. of Tech
17:00-17:20		TuBT1.6
<i>In-Situ Work Piece Surface Roughness Estimation in Turning (I)</i> , pp. 328-332.		
Kamarthi, Sagar		Northeastern Univ
Zeid, Abe		Northeastern Univ
Sultornsanee, Sivarit		School of Business, Univ. of Thai Chamber of Commerce, Bang
17:20-17:40		TuBT1.7
<i>A Case for SysML in Robotics</i> , pp. 333-338.		
Huckaby, Jacob		Georgia Inst. of Tech
Christensen, Henrik Iskov		Georgia Inst. of Tech
17:40-18:00		TuBT1.8
<i>Toward Safe Close-Proximity Human-Robot Interaction with Standard Industrial Robots</i> , pp. 339-344.		
Lasota, Przemyslaw		Mit
Rossano, Gregory		ABB Corp. Res
Shah, Julie A.		Mit

TuBT2		Narcissus
Scheduling and Optimization I (Regular Session)		
Chair: Zhou, Qiang		City Univ. of Hong Kong
Co-Chair: Chen, Xi		Tsinghua Univ.
15:20-15:40		TuBT2.1
<i>Coordination Mechanisms for Planning of Hydro-Thermal Subsystem</i> , pp. 345-350.		
Wang, Jingyuan		Tsinghua Univ. Beijing
Chen, Xi		Tsinghua Univ
15:40-16:00		TuBT2.2
<i>An Efficient Emulator for Multivariate Gaussian Processes Using a Pairwise Fitting Approach (I)</i> , pp. N/A.		
Li, Yongxiang		City Univ. of Hong Kong
Zhou, Qiang		City Univ. of Hong Kong
16:00-16:20		TuBT2.3
<i>Integrated Production Scheduling and Periodic Maintenances on a Single Machine with Release Dates</i> , pp. 353-358.		
Cui, Wei Wei		Shanghai Jiao Tong Univ
Lu, Zhiqiang		Tongji Univ
16:20-16:40		TuBT2.4
<i>Green Management of Spare Parts for an Integrated Optimal Maintenance and Production Policy</i> , pp. 359-364.		
Ba, Kader		Univ. De Lorraine, Lab. De Génie Industriel De Produ
Dellagi, Sofiene		Univ. Metz
Rezg, Nidhal		Metz Univ
16:40-17:00		TuBT2.5
<i>A Two-Phase Method for Solving Tire Production Planning Problem</i> , pp. N/A.		
Park, In-Beom		Seoul National Univ
Kim, Yoonjung		Seoul National Univ
Yang, Yong-Seok		Seoul National Univ
Chung, Beom-Suk		Seoul National Univ
Lim, Junseok		Seoul National Univ
Park, Jonghun		Seoul National Univ
17:00-17:20		TuBT2.6
<i>Symbolic Planning for Industrial Applications – the Robotics Approach</i> , pp. 367-372.		
Wantia, Nils		RWTH Aachen Univ
Losch, Daniel		RWTH Aachen Univ
Rossmann, Juergen		RWTH Aachen Univ
17:20-17:40		TuBT2.7
<i>Application of a Hybridized Cuckoo Search-Genetic Algorithm to Path Optimization for PCB Holes Drilling Process</i> , pp. 373-378.		
G, Kanagaraj		Thiagarajar Coll. of Engineering Madurai
S G, Ponnambalam		Monash Univ
W.C.E., Lim		School of Engineering, Monash Univ. Malaysia
17:40-18:00		TuBT2.8
<i>Minimizing Expected Cycle Time of Customer Orders on Heterogeneous Machines (I)</i> , pp. N/A.		
Xu, Xiaoyun		Peking Univ. Coll. of Engineering

TuBT3		Jasper
Simulation Optimization and Building Automation I (Special Session)		
Chair: Lee, Loo Hay		National Univ. of Singapore
Co-Chair: Xia, Li		Tsinghua Univ.
Organizer: Jia, Qing-Shan		Tsinghua Univ.
Organizer: Chen, Chun-Hung		National Taiwan Univ.
Organizer: Lee, Loo Hay		National Univ. of Singapore
Organizer: Zhao, Qianchuan		Tsinghua Univ.
15:20-15:40		TuBT3.1
<i>An Efficient Selection Procedure with the Expected Opportunity Cost Constraint (I)</i> , pp. N/A.		
Gao, Siyang		Univ. of Wisconsin at Madison
Shi, Leyuan		Univ. of Wisconsin-Madison
15:40-16:00		TuBT3.2
<i>Some Results of Markov Decision Processes under Variance Criterion (I)</i> , pp. N/A.		
Xia, Li		Tsinghua Univ.
16:00-16:20		TuBT3.3
<i>An Ordinal Transformation Framework for Multi-Fidelity Simulation Optimization (I)</i> , pp. 385-390.		
Xu, Jie		George Mason Univ.
Zhang, Si		George Mason Univ.
Huang, Edward		George Mason Univ.
Chen, Chun-Hung		National Taiwan Univ.
Lee, Loo Hay		National Univ. of Singapore
Celik, Nurcin		Univ. of Miami
16:20-16:40		TuBT3.4
<i>Simulation of Sensitivity-Based Approach with Distorted Probability (I)</i> , pp. N/A.		
Cao, Xiren		Shanghai Jiao Tong Univ.
Xue, Ruobing		Shanghai Jiao Tong Univ.
16:40-17:00		TuBT3.5
<i>Time Buffer Control System for Multi-stage Production Lines (I)</i> , pp. 393-398.		
Pedrielli, Giulia		National Univ. of Singapore
Alfieri, Arianna		Pol. Di Torino
Matta, Andrea		Shanghai Jiao Tong Univ.
17:00-17:20		TuBT3.6
<i>Simulation-Based Surgery Appointment Sequencing and Scheduling of Multiple Operating Rooms (I)</i> , pp. 399-404.		
Zhang, Zheng		Shanghai Jiao Tong Univ.
Xie, Xiaolan		Ec. Des Mines De Saint Etienne
Geng, Na		Shanghai Jiao Tong Univ.
17:20-17:40		TuBT3.7
<i>The Effect of Information Sharing on Supply Chain Network with Supply Disruptions (I)</i> , pp. 405-412.		
Tao, Yi		Guangdong Univ. of Tech.
Lee, Loo Hay		National Univ. of Singapore
Chew, Ek Peng		National Univ. of Singapore
17:40-18:00		TuBT3.8
<i>Social Incentive Policies to Engage Commercial Building Occupants in Demand Response (I)</i> , pp. 407-412.		
Li, Sisi		Njit
Deng, Kun		Univ. of Illinois at Urbana-Champaign
Zhou, MengChu		New Jersey Inst. of Tech.

TuBT4		Emerald
Discrete Event Systems (Regular Session)		
Chair: Hu, Hesuan		Xidian Univ.
Co-Chair: Wu, Naiqi		Guangdong Univ. of Tech.
15:20-15:40		TuBT4.1
<i>Marking Optimization of Deterministic Timed Weighted Marked Graphs</i> , pp. 413-418.		
He, Zhou		Xidian Univ
Li, Zhiwu		Xidian Univ
Giua, Alessandro		Univ. of Cagliari, Italy
15:40-16:00		TuBT4.2
<i>A Monitor Solution to Enforce Legal Transition Firing Sequences Problems by Using Petri Nets</i> , pp. 419-424.		
Gao, Xiang		Xidian Univ
Li, Zhiwu		Xidian Univ
Wang, Anrong		Xidian Univ
16:00-16:20		TuBT4.3
<i>Towards a Converse Lyapunov Stability Theory of Hybrid Impulsive and Switching Systems</i> , pp. 425-429.		
Gao, Rui		Shandong Univ
16:20-16:40		TuBT4.4
<i>Linear Programming-Based Approach to Scheduling of Crude Oil Operations in Refinery with Oil Type Mixing Requirement Requirement (I)</i> , pp. 430-435.		
Bai, Liping		Guangdong Univ. of Tech
Wu, Naiqi		Guangdong Univ. of Tech
Zhou, MengChu		New Jersey Inst. of Tech
16:40-17:00		TuBT4.5
<i>A Synthesis-Centric Model-Based Systems Engineering Framework for Reliable Supervision of Systems with General Distributions (I)</i> , pp. 436-442.		
Markovski, Jasen		Eindhoven Univ. of Tech
Hu, Hesuan		Xidian Univ
17:00-17:20		TuBT4.6
<i>A Time Fidelity Control Foundation for Hierarchical Discrete-Event Systems</i> , pp. 443-448.		
Ngo, Quang Ha		Nanyang Tech. Univ
Seow, Kiam Tian		Nanyang Tech. Univ
17:20-17:40		TuBT4.7
<i>Simplifying Supervisory Controllers of Automated Manufacturing Systems Via Petri Net Modeling and Multiset Analysis (I)</i> , pp. 449-454.		
Hu, Hesuan		Xidian Univ
Liu, Yang		Nanyang Tech. Univ
17:40-18:00		TuBT4.8
<i>A Divide-And-Conquer Method for the Synthesis of Non-Blocking Supervisors for Flexible Manufacturing Systems</i> , pp. 455-460.		
Zhao, Mi		Coll. of Machinery and Electricity, Shihezi Univ
Uzam, Murat		Meliksah Üniversitesi, Mühendislik Mimarlık Fakültesi
Hou, Yifan		Xidian Univ

TuBT5		Coral
Advances in Sustainable Production Automation (Special Session)		
Chair: Tang, Ying (Gina)		Rowan Univ.
Co-Chair: Li, Congbo		Chongqing Univ.
Organizer: Tang, Ying (Gina)		Rowan Univ.
Organizer: Li, Congbo		Chongqing Univ.
Organizer: Matta, Andrea		Shanghai Jiao Tong Univ.
15:20-15:40		TuBT5.1
<i>Utilizing Energy Opportunity Windows and Energy Profit Bottlenecks to Reduce Energy Consumption Per Part for a Serial Production Line (I)</i> , pp. 461-466.		
Brundage, Michael		Stony Brook Univ
Chang, Qing		Stony Brook Univ
Li, Yang		Stony Brook Univ
Arinez, Jorge	General Motors Res. & Development Center	
Xiao, Guoxian		General Motors Corp
15:40-16:00		TuBT5.2
<i>Threshold-Type Admission Policy for Remanufacturing Systems (I)</i> , pp. 467-473.		
Jin, Xiaoning		Univ. of Michigan
Ni, Jun		Univ. of Michigan
Hu, S. Jack		The Univ. of Michigan
Xiao, Guoxian		General Motors Corp
Chang, Qing		Stony Brook Univ
16:00-16:20		TuBT5.3
<i>A Color Petri Net Based Scheduling Model for Remanufacturing System with Stochastic Process Routing (I)</i> , pp. 474-479.		
Li, Lingling		Chongqing Univ
Li, Congbo		Chongqing Univ
Tang, Ying (Gina)		Rowan Univ
16:20-16:40		TuBT5.4
<i>Reducing Carbon Emission of Ocean Shipments by Optimizing Container Size Selection (I)</i> , pp. 480-485.		
Chong, Edwin Lik Ming		Singapore Management Univ
Ma, Nang Laik		Singapore Management Univ
Tan, Kar Way		Singapore Management Univ
16:40-17:00		TuBT5.5
<i>Cost and Energy Consumption Collaborative Optimization for Sintering Burdening in Iron and Steel Enterprise (I)</i> , pp. 486-491.		
Wang, Junkai		Tongji Univ
Qiao, Fei		Tongji Univ
17:00-17:20		TuBT5.6
<i>Energy Reduction in Cyclic Flow Shop Plants through On-Off Control of Robots (I)</i> , pp. 492-497.		
Mashaei, Maziar		Chalmers Univ. of Tech
Lennartson, Bengt		Chalmers Univ. of Tech
17:20-17:40		TuBT5.7
<i>An Information Classification System for Life Cycle and Manufacturing Standards (I)</i> , pp. 498-503.		
Wolff, Sarah		Northwestern Univ.
Narayanan, Anantha		NIST
Lechevalier, David		NIST
Morris, Kc		NIST

TuBT6	VIP
Life Science and Health Care (Regular Session)	
Chair: Goldberg, Ken	UC Berkeley
Co-Chair: Wen, John	Rensselaer Pol. Inst.
15:20-15:40	TuBT6.1
<i>A Novel Vision Guided Knot-Tying Method for Autonomous Robotic Surgery</i> , pp. 504-508. Attachment	
Chow, Der-Lin	Case Western Res. Univ
Jackson, Russell	Case Western Res. Univ
Cavusoglu, M. Cenk	Case Western Res. Univ
Newman, Wyatt	Case Western Res. Univ
15:40-16:00	TuBT6.2
<i>Jamster: A Mobile Dual-Arm Assistive Robot with Jamboxx Control</i> , pp. 509-514. Attachment	
Cunningham, Andrew	Rensselaer Pol. Inst
Keddy-Hector, William	Rensselaer Pol. Inst
Sinha, Utkarsh	Rensselaer Pol. Inst
Whalen, David	Jamboxx
Kruse, Daniel	Rensselaer Pol. Inst
Braasch, Jonas	Rensselaer Pol. Inst
Wen, John	Rensselaer Pol. Inst
16:00-16:20	TuBT6.3
<i>Decomposition Approaches to Assignment and Routing Problems in Home Health Care Services</i> , pp. 505-514. Attachment	
Cappanera, Paola	Univ. Degli Studi Di Firenze
Yalcindag, Semih	Pol. Di Milano and Ec. Centrale Paris
Scutella', Maria Grazia	Univ. Di Pisa
Sahin, Evren	Ec. Centrale Paris
Matta, Andrea	Shanghai Jiao Tong Univ
16:20-16:40	TuBT6.4
<i>Modeling of Heart Rate Variability for Automatic OSA Diagnosis (I)</i> , pp. 515-524. Attachment	
Zhang, Xi	Coll. of Engineering , Peking Univ
16:40-17:00	TuBT6.5
<i>A Two-Phase Approach for Periodic Home Health Care Planning</i> , pp. 518-523. Attachment	
Triki, Nizar	Ec. Des Mines De Saint-Etienne
Garaix, Thierry	Ec. Nationale Superieure De Mines De Saint Etienne
Xie, Xiaolan	Ec. Des Mines De Saint Etienne
17:00-17:20	TuBT6.6
<i>Exact Reachability Analysis for Planning Skew-Line Needle Arrangements for Automated Brachytherapy</i> , pp. 524-531. Attachment	
Garg, Animesh	Univ. of California, Berkeley
Siauw, Timmy	Univ. of California, Berkeley
Yang, Guang	Univ. of California, Berkeley
Patil, Sachin	Univ. of California Berkeley
Cunha, J. Adam	Univ. of California, San Francisco
Hsu, I-Chow Joe	Univ. of California, San Francisco
Pouliot, Jean	Univ. of California, San Francisco
Atamturk, Alper	Univ. of California, Berkeley
Goldberg, Ken	UC Berkeley
17:20-17:40	TuBT6.7
<i>Learning Accurate Kinematic Control of Cable-Driven Surgical Robots Using Data Cleaning and Gaussian Process Regression</i> , pp. 532-539. Attachment	
Mahler, Jeffrey	Univ. of California, Berkeley
Krishnan, Sanjay	Univ. of California Berkeley
Laskey, Michael	Univ. of California, Berkeley
Sen, Siddarth	Univ. of California, Berkeley
Murali, Adithyavairavan	Univ. of California, Berkeley
Kehoe, Ben	Univ. of California, Berkeley
Patil, Sachin	Univ. of California Berkeley
Wang, Jiannan	UC Berkeley
Franklin, Michael	Univ. of California, Berkeley
Abbeel, Pieter	UC Berkeley
Goldberg, Ken	UC Berkeley

TuBT7	Jixiang
Automation in Health Care Management (Special Session)	
Chair: Xie, Xiaolan	Ec. des Mines de Saint Etienne
Co-Chair: Li, Jingshan	Univ. of Wisconsin - Madison
Organizer: Xie, Xiaolan	Ec. des Mines de Saint Etienne
Organizer: Ukovich, Walter	Univ. of Trieste
Organizer: Darabi, Houshang	Univ. of Illinois at Chicago
Organizer: Faraut, Gregory	ENS-Cachan
15:20-15:40	TuBT7.1
<i>A Queuing Approach for Radiotherapy Treatment Capacity Planning (I)</i> , pp. 540-545.	
Li, Siqiao	Shanghai Jiao Tong Univ
Xie, Xiaolan	Ec. Des Mines De Saint Etienne
Geng, Na	Shanghai Jiao Tong Univ
15:40-16:00	TuBT7.2
<i>Primary Care Redesign: A Simulation Study at a Pediatric Clinic (I)</i> , pp. 546-551.	
Zhong, Xiang	Univ. of Wisconsin Madison
Williams, Molly	Univ. of Wisconsin Medical Foundation
Li, Jingshan	Univ. of Wisconsin - Madison
Kraft, Sally	Univ. of Wisconsin Medical Foundation
Sleeth, Jeffrey	Univ. of Wisconsin Medical Foundation
16:00-16:20	TuBT7.3
<i>Markov Decision Process Model for Elective Inpatient Admission with Delay Announcement (I)</i> , pp. 552-557.	
Lu, Yuwei	Shanghai Jiao Tong Univ
Xie, Xiaolan	Ec. Des Mines De Saint Etienne
Jiang, Zhibin	Shanghai Jiao Tong Univ
16:20-16:40	TuBT7.4
<i>A Queuing Approximation Method for Capacity Planning of Emergency Department with Time-Varying Demand (I)</i> , pp. 558-563.	
Liu, Qiang	Shanghai Jiao Tong Univ
Liu, Ran	Shanghai JiaoTong Univ
Xie, Xiaolan	Ec. Des Mines De Saint Etienne
16:40-17:00	TuBT7.5
<i>Home Health Care Crew Scheduling and Routing Problem with Stochastic Service Times (I)</i> , pp. 564-569.	
Yuan, Biao	Shanghai Jiao Tong Univ
Liu, Ran	Shanghai JiaoTong Univ
Jiang, Zhibin	Shanghai Jiao Tong Univ
17:00-17:20	TuBT7.6
<i>An Analytical Model for Performance Evaluation of Operating Room Schedules in Orthopedic Surgery (I)</i> , pp. 570-575.	
Zeng, Zexian	Univ. of Wisconsin-Madison
Xie, Xiaolei	Univ. of Wisconsin - Madison
Li, Jingshan	Univ. of Wisconsin - Madison
Menaker, Heidi	UW Health
Sanford-Ring, Susan	UW Health
17:20-17:40	TuBT7.7
<i>Predicting Patient Risk of Readmission with Frailty Models in the Department of Veteran Affairs (I)</i> , pp. 576-581.	
Ajorlou, Saeede	Wayne State Univ
Shams, Issac	Wayne State Univ
Yang, Kai	Wayne State Univ
17:40-18:00	TuBT7.8
<i>A Petri Net Model of an Integrated System for the Health Care at Home Management (I)</i> , pp. 582-587.	
Fanti, Maria Pia	Pol. Di Bari
Mangini, Agostino Marcello	Pol. Di Bari
Ukovich, Walter	Univ. of Trieste
Lesage, Jean-Jacques	Ec. Normale Superieure De Cachan
Viard, Kévin	Ec. Normale Supérieure De Cachan

TuBT8		Ruyi
Automation in Logistics and Supply Chain Management (Regular Session)		
Chair: Fanti, Maria Pia		Pol. di Bari
Co-Chair: Chien, Chen-Fu		National Tsing Hua Univ.
15:20-15:40		TuBT8.1
<i>A Decision Support System Approach for the Postal Delivery Operations (I)</i> , pp. 588-593.		
Fanti, Maria Pia		Pol. Di Bari
Laraspata, Roberta		Pol. of Bari
Iacobellis, Giorgio		Pol. Di Bari
Mangini, Agostino Marcello		Pol. Di Bari
Ukovich, Walter		Univ. of Trieste
Abbatecola, Lorenzo		Pol. of Bari
15:40-16:00		TuBT8.2
<i>An Intercell Scheduling Approach Considering Transportation Capacity (I)</i> , pp. 594-599.		
Li, Miao		Beijing Inst. of Tech
Zheng, Hong		Beijing Inst. of Tech
Li, Dongni		Beijing Inst. of Tech
Meng, Xianwen		Beijing Inst. of Tech
16:00-16:20		TuBT8.3
<i>A Logistics Integrated Service Model in Taiwan FTZ for Foreign Key Components Supply of Bicycle Industry (I)</i> , pp. 600-602.		
Hung, Yun-Wei		Industrial Tech. Res. Inst
Peng, Hao-Hsuan		Industrial Tech. Res. Inst
Hui-Chuan, Chen		Service Systems Tech. Center, Industrial Tech. Res
16:20-16:40		TuBT8.4
<i>The Study of Green Logistics Services to Manage Reverse Logistics of TFT-LCD Panel Industry (I)</i> , pp. 603-606.		
Liu, Chai-Yuan		T.H.I. Logistics Co., Ltd
Lee, Chia-Yuan		T.H.I. Logistics Co., Ltd
Huang, Li-Te		Industrial Tech. Res. Inst
Peng, Hao-Hsuan		Industrial Tech. Res. Inst
Hui-Chuan, Chen		Service Systems Tech. Center, Industrial Tech. Res
16:40-17:00		TuBT8.5
<i>An Auction Mechanism for the Last-Mile Deliveries Via Urban Consolidation Centre (I)</i> , pp. 607-612.		
Handoko, Stephanus Daniel		Singapore Management Univ
Nguyen, Duc Thien		Singapore Management Univ
Lau, Hoong Chuin		Singapore Management Univ
17:00-17:20		TuBT8.6
<i>Multistage Semiconductor Memory Inventory Model Based on Survival Analysis</i> , pp. 613-618.		
Wu, Jei-Zheng		Soochow Univ
Chien, Chen-Fu		National Tsing Hua Univ
17:20-17:40		TuBT8.7
<i>A Comparative Approach to Supervisor Simplification in Automated Manufacturing Systems Using Petri Nets (I)</i> , pp. 619-625.		
Hu, Hesuan		Xidian Univ
Liu, Yang		Nanyang Tech. Univ

Technical Program for Wednesday August 20, 2014

WeBS1	Lily and Narcissus
Best Student Paper Award Competition (Award Finalists Session)	
Chair: Fu, Li-Chen	National Taiwan Univ.
08:30-08:50	WeBS1.1
<i>Sparse Particle Filtering for Modeling Space-Time Dynamics in Distributed Sensor Networks (I)</i> , pp. 626-631.	
Chen, Yun	Univ. of South Florida
Liu, Gang	Univ. of South Florida
Yang, Hui	Univ. of South Florida
08:50-09:10	WeBS1.2
<i>Energy and CO2 Efficient Scheduling of Smart Appliances in Active Houses Equipped with Batteries (I)</i> , pp. 632-639.	
Paridari, Kaveh	Royal Inst. of Tech
Parisio, Alessandra	Royal Inst. of Tech
Sandberg, Henrik	Royal Inst. of Tech
Johansson, Karl H.	Royal Inst. of Tech
09:10-09:30	WeBS1.3
<i>Optimal Integration of Alternative Energy Sources in Production Systems for Minimum Grid Dependency and Outage Risk</i> , pp. 640-645.	
Chu, Kang-Ching	Univ. of Michigan
Kaifuku, Kazuhide	Toyota Boshoku America, Inc
Saitou, Kazuhiro	Univ. of Michigan
09:30-09:50	WeBS1.4
<i>Energy Saving Policies for a Machine Tool with Warm-Up, Stochastic Arrivals and Buffer Information (I)</i> , pp. 646-651.	
Frigerio, Nicla	Pol. DI MILANO
Matta, Andrea	Shanghai Jiao Tong Univ

Technical Program for Thursday August 21, 2014

ThAT1		Lily
Production and Operations Management under Uncertainties: Theory & Technology (Special Session)		
Chair: Wang, Zheng		Southeast Univ.
Co-Chair: Ma, Kaiping		Nanjing Agricultural Univ.
Organizer: Wang, Zheng		Southeast Univ.
08:30-08:50		ThAT1.1
<i>A Robust (r, Q) Policy for a Simple VMI System with Inventory Inaccuracy and Time-Delay (I)</i> , pp. 652-657.		
Li, Ming		Southeast Univ
Chan, Felix T. S.		The Hong Kong Pol. Univ
Wang, Zheng		Southeast Univ
08:50-09:10		ThAT1.2
<i>Inventory Hedging and Coordination under Inventory-Level-Dependent Demand (I)</i> , pp. 658-664.		
Zhang, Ting		The Univ. of Hong Kong
Huang, George Q.		The Univ. of Hong Kong
Shi, Yuan		South China Univ. of Tech
Lan, Shulin		The Univ. of Hong Kong
09:10-09:30		ThAT1.3
<i>Modeling and Simulation of Product Diffusion Considering Learning Effect (I)</i> , pp. 665-670.		
Ma, Kaiping		Nanjing Agricultural Univ
Diao, Xiang		The North Information Control Group Co., Ltd
Li, Chengfeng		Nanjing Agricultural Univ
Zheng, Jing		Nanjing Agricultural Univ
09:30-09:50		ThAT1.4
<i>Production Planning with Uncertain Demands and Real Options (I)</i> , pp. 671-676.		
Sivaramakumar, Gopalamudram(Siva)		Manager, Cognizant Tech. Solutions
Jain, Sanjay		The George Washington Univ

ThAT2		Narcissus
Quantitative Methods in Computer-Assisted Detection and Diagnosis (Special Session)		
Chair: Chen, Argon		National Taiwan Univ.
Co-Chair: Chen, Chung-Ming		National Taiwan Univ.
Organizer: Chen, Argon		National Taiwan Univ.
08:30-08:50		ThAT2.1
<i>A Morphological Dynamics Approach for Pulmonary Nodules Detection on 3D Thoracic CT Images (I)</i> , pp. 1-10		
Huang, Hsuan-Yu		National Taiwan Univ
Chang, Yeun-Chung		National Taiwan Univ. Hospital
Chen, Chung-Ming		National Taiwan Univ
08:50-09:10		ThAT2.2
<i>Comparison of Automated Color Deconvolution Methods in Histology (I)</i> , pp. 1-10		
Huang, Adam		National Central Univ
Lo, Tse-Hua		Taiwan Landseed Hospital
Tsai, Mu-Shiun		Taiwan Landseed Hospital
09:10-09:30		ThAT2.3
<i>A Variance-Reduction Method for Thyroid Nodule Boundary Detection on Ultrasound Images (I)</i> , pp. 681-685.		
Chiu, Ling-Ying		Inst. of Industrial Engineering, National Taiwan Univ
Chen, Argon		National Taiwan Univ
09:30-09:50		ThAT2.4
<i>Development of an E-Diagnostics System Based on Web-Services (I)</i> , pp. 686-691.		
Chen, Chia-He		National Taiwan Univ
Huang, Han-Pang		National Taiwan Univ
Lo, Sheng-Yen		National Taiwan Univ

ThAT3		Jasper
Performance Evaluation for Production Systems and Supply Chains (Special Session)		
Chair: Wu, Kan		Nanyang Tech. Univ.
Co-Chair: Matta, Andrea		Shanghai Jiao Tong Univ.
Organizer: Wu, Kan		Nanyang Tech. Univ.
08:30-08:50		ThAT3.1
<i>Performance Evaluation of Multi-Product Manufacturing Systems with Asynchronous Exponential Machines (I)</i> , pp. 692-697.		
Zhao, Cong		Univ. of Wisconsin - Madison
Li, Jingshan		Univ. of Wisconsin - Madison
Huang, Ningjian		General Motors R & D Center
08:50-09:10		ThAT3.2
<i>Classifications for Batch Service Queues in Production Systems (I)</i> , pp. 698-703.		
Wu, Kan		Nanyang Tech. Univ.
09:10-09:30		ThAT3.3
<i>Flexibility Analysis on a Supply Chain Contract Using a Parametric Linear Programming Model</i> , pp. 704-709.		
Chu, Chengbin		Ec. Centrale Paris
Longomo, Eric		Department of Mathematics, Univ. of Portsmouth,
Song, Xiang		Department of Mathematics, Univ. of Portsmouth,
Ouelhadj, Djamilia		Univ. of Portsmouth
09:30-09:50		ThAT3.4
<i>Data-Driven Bottleneck Detection in Manufacturing Systems: A Statistical Approach (I)</i> , pp. 710-715.		
Yu, Chunlong		Pol. Di Milano
Matta, Andrea		Shanghai Jiao Tong Univ.

ThAT4		Emerald
Sensor-Based System Informatics and Control (Special Session)		
Chair: Liu, Gang		Univ. of South Florida
Co-Chair: Peng, Yung-Hsing		Inst. for Information Industry
Organizer: Yang, Hui		Univ. of South Florida
Organizer: Gong, Zongyang		Nanjing Santron Automation Tech. Co., Ltd
08:30-08:50		ThAT4.1
<i>An Effective Wavelength Utilization for Spectroscopic Analysis on Orchid Chlorophyll Measurement (I)</i> , pp. 716-721.		
Peng, Yung-Hsing		Inst. for Information Industry
Hsu, Chin-Shun		Inst. for Information Industry
Huang, Po-Chuang		Inst. for Information Industry
Wu, Yen-Dong		Lemar Industrial Corp
08:50-09:10		ThAT4.2
<i>Model-Driven Parametric Monitoring of High-Dimensional Nonlinear Functional Profiles (I)</i> , pp. 722-727.		
Liu, Gang		Univ. of South Florida
Kan, Chen		Univ. of South Florida
Chen, Yun		Univ. of South Florida
Yang, Hui		Univ. of South Florida
09:10-09:30		ThAT4.3
<i>Iterative Identification Framework for Robust Hand-Written Digit Recognition under Extremely Noisy Conditions (I)</i> , pp. 728-733.		
Lee, Hosun		Japan Advanced Inst. of Science and Tech
Jeong, Sungmoon		Japan Advanced Inst. of Science and Tech
Matsumoto, Tadashi		Japan Advanced Inst. of Science and Tech
Chong, Nak Young		Japan Advanced Inst. of Sci. and Tech

ThAT5		Coral
Brain-Computer Interface (Special Session)		
Chair: Liu, Yi-Hung		Chung Yuan Christian Univ.
Co-Chair: Chen, Shi-An		National Chiao Tung Univ.
Organizer: Liu, Yi-Hung		Chung Yuan Christian Univ.
Organizer: Chen, Shi-An		National Chiao Tung Univ.
08:30-08:50		ThAT5.1
<i>Development of a TV Control Interface Using BCI and EOG Signals (I)</i> , pp. 1-10		
Kuo, Yu-Cheng		National Taiwan Univ. of Science and Tech.
Prataksita, Narendra		National Taiwan Univ. of Science and Tech.
Lin, I-Tseng		National Taiwan Univ. of Science and Tech.
Kuo, Chung-Hsien		National Taiwan Univ. of Science and Tech.
08:50-09:10		ThAT5.2
<i>Electrooculography-Based Human/Brain-Computer Interface on Direction Controlling (I)</i> , pp. 1-10		
Lin, Jheng-Wei		Brain Res. Center, National Chiao Tung Univ
Lin, Chin-Teng		Brain Res. Center, National Chiao Tung Univ
Chen, Shi-An		National Chiao Tung Univ
09:10-09:30		ThAT5.3
<i>A Potential Biofeedback BCI Design for Motor Imagery Training Using Single-Trial EEG (I)</i> , pp. 1-10		
Wu, Chien-Te		School of Occupational Therapy, Coll. of Medicine, National Ta
Liu, Yi-Hung		Chung Yuan Christian Univ
Hsu, Wei-Chun		Graduate Inst. of Biomedical Engineering National Taiwan Uni
Chen, Po-Ming		Mechanical Engineering, Chun Yuan Christian Univ
Yeh, Chun-Fu		School of Occupational Therapy, Coll. of Medicine, National Ta
Seng, Guan-Jye		School of Occupational Therapy, Coll. of Medicine, National Ta
Chen, Hao-Ling		Coll. of Medicine, National Taiwan Univ
09:30-09:50		ThAT5.4
<i>P300 and SSVEP-Based Hybrid Brain-Computer Interface for Automated Healthcare Application (I)</i> , pp. 1-10		
Liu, Yi-Hung		Chung Yuan Christian Univ
Hu, Ming-Ren		Chung Yuan Christian Univ
Wang, Shih-Hao		Chung Yuan Christian Univ
Chan, Hao Jun		Chung Yuan Christian Univ
Chou, Yi-Cheng		Chung Yuan Christian Univ

ThAT6		VIP
Applications of Active Magnetic Bearings (Special Session)		
Chair: Chen, Shyh-Leh	National Chung Cheng Univ.	
Co-Chair: Lin, Chung-Hsien	Industrial Tech. Res. Inst.	
Organizer: Chen, Shyh-Leh	National Chung Cheng Univ.	
08:30-08:50	ThAT6.1	
<i>The Development of 90RT Oil-Free Refrigerant Compressor Using Active Magnetic Bearings (I)</i> , pp. 1-10		
Chen, Chao-Yun	Industrial Tech. Res. Inst	
Chiang, Hsu-Cheng	Industrial Tech. Res. Inst	
Lin, Chung-Hsien	Industrial Tech. Res. Inst	
Liu, Chung-Che	Industrial Tech. Res. Inst	
Chung, Jenn-Chyi	Industrial Tech. Res. Inst	
Wang, Deng-Mao	Industrial Tech. Res. Inst	
Su, Chong-Xian	Industrial Tech. Res. Inst	
08:50-09:10	ThAT6.2	
<i>An Innovative Sensorless Control for a 3-Pole Active Magnetic Bearing (I)</i> , pp. 1-10		
Liu, Kang-Yu	National Chung Cheng Univ	
Chen, Shyh-Leh	National Chung Cheng Univ	
09:10-09:30	ThAT6.3	
<i>Modeling and Experimental Validation of a Hybrid Magnetic Unit (I)</i> , pp. 1-10		
Toh, Chow-Shing	National Chung Cheng Univ	
Chen, Shyh-Leh	National Chung Cheng Univ	
09:30-09:50	ThAT6.4	
<i>Maintenance-Free Regenerative Turbine Pump by Using Active Magnetic Bearings (I)</i> , pp. 1-10		
Peng, Shen Lin	LightWing Tech. Co., Ltd	
Wu, Ryan	LightWing Tech. Co., Ltd	
Lin, Chung-Hsien	Industrial Tech. Res. Inst	
Wang, Deng-Mao	Industrial Tech. Res. Inst	
Su, Chong-Xian	Industrial Tech. Res. Inst	
Chen, Chao-Yun	Industrial Tech. Res. Inst	

ThBT1		Lily
Manufacturing Automation II (Regular Session)		
Chair: Huang, Qiang		Univ. of Southern California
Co-Chair: Prabhu, Vittaldas		Penn State Univ.
10:10-10:30		ThBT1.1
<i>Performance Assessment of Virtual Metrology in APC Applications for the Viability of Sampling Reductions</i> , pp. 750-755.		
Hui, Keung		Taiwan Semiconductor Manufacturing Company, Limited
Mou, Jason		Taiwan Semiconductor Manufacturing Company, Limited
10:30-10:50		ThBT1.2
<i>AVM System Deployment for Flat-Panel-Display Manufacturing</i> , pp. 760-763.		
Chen, Chun-Fang		National Cheng Kung Univ
Tsai, Wen-Huang		Department of Business Administration, Kun Shan Univ
Cheng, Fan-Tien		National Cheng Kung Univ
10:50-11:10		ThBT1.3
<i>Shape Deviation Modeling for Fused Deposition Modeling Processes (I)</i> , pp. 758-763.		
Song, Suoyuan		Hkust
Wang, Andi		Hkust
Huang, Qiang		Univ. of Southern California
Tsung, Fugee		Hkust
11:10-11:30		ThBT1.4
<i>Automatic Optimal Control of Field Assisted Sintering Technology (I)</i> , pp. 764-769.		
Lee, Jinkun		The Pennsylvania State Univ
Singh, Jogender		The Pennsylvania State Univ
Prabhu, Vittaldas		Penn State Univ

ThBT2		Narcissus
Quantitative Methods in Semiconductor Manufacturing II (Special Session)		
Chair: Moench, Lars		Univ. of Hagen
Co-Chair: Susto, Gian Antonio		Univ. of Padova
Organizer: Morrison, James		KAIST
Organizer: Moench, Lars		Univ. of Hagen
10:10-10:30		ThBT2.1
<i>Intelligent Predictive Maintenance System (I)</i> , pp. 404-412		
Lin, Li-Ren		Motech Industries Inc
Huang, Yu-Wen		Motech Industries, Inc
Chiu, Yu-Chen		National Cheng Kung Univ
Cheng, Fan-Tien		National Cheng Kung Univ
10:30-10:50		ThBT2.2
<i>A Parallel GRASP Approach for Scheduling Jobs with Ready Times on Batch Processing Machines (I)</i> , pp. 104-112		
Bilyk, Andrew		Univ. of Hagen
Moench, Lars		Univ. of Hagen
10:50-11:10		ThBT2.3
<i>Target Setting with Consideration of Target-Induced Operation Variability for Performance Improvement of Semiconductor Fabrication (I)</i> , pp. 774-779.		
Kao, Yu-Ting		National Taiwan Univ
Chang, Shi-Chung		National Taiwan Univ
Chang, Chun-Ming		National Taiwan Univ
11:10-11:30		ThBT2.4
<i>Smart Dynamic Sampling for Wafer at Risk Reduction in Semiconductor Manufacturing (I)</i> , pp. 780-785.		
Housseman, Sylvain	Ec. Des Mines De Saint-Etienne - Centre Microélectronique De P	
Dauzere-Peres, Stephane	France-Ec. Des Mines De Saint-Etienne - Centre Microélectroniq	
Rodriguez-Verjan, Gloria Luz	ST Microelectronics and Ec. Nationale Des Mines De SaintEtienn	
Pinaton, Jacques		STMicroelectronics
11:30-11:50		ThBT2.5
<i>Insight Extraction for Semiconductor Manufacturing Processes (I)</i> , pp. 786-791.		
Pampuri, Simone		Univ. of Pavia, Italy
Susto, Gian Antonio		Univ. of Padova
Wan, Jian		National Univ. of Ireland, Maynooth
Johnston, Adrian		Seagate Tech
O'Hara, Paul		Seagate Tech
McLoone, Sean		NUI Maynooth

ThBT3		Jasper
Big Data and Data Mining (Regular Session)		
Chair: Zerhouni, Noureddine	FEMTO-ST Inst. AS2M department, UMR CNRS 6174 - UFC /ENSMM / UTBM, 25000 Besançon, France	
Co-Chair: Xu, Jie	George Mason Univ.	
10:10-10:30	ThBT3.1	
<i>Opportunistic Maintenance Optimization for Multi-Component Systems under a Mixture of Different Types of Maintenance Policies</i> , pp. 1-10		
Zhu, Qiushi	Eindhoven Univ. of Tech	
Peng, Hao	Eindhoven Univ. of Tech	
Van Houtum, Geert-Jan	Eindhoven Univ. of Tech	
10:30-10:50	ThBT3.2	
<i>Shapelet-Based Remaining Useful Life Estimation</i> , pp. 794-799.		
Malinowski, Simon	Femto-St	
Chebel-Morello, Brigitte	FEMTO-ST Inst. Besancon (France)	
Zerhouni, Noureddine	FEMTO-ST Inst. AS2M Department, UMR CNRS 6174 - UFC /ENSMM	
10:50-11:10	ThBT3.3	
<i>Approximation Method to Rank-One Binary Matrix Factorization</i> , pp. 800-805.		
Shi, Zhongshun	Peking Univ	
Wang, Longfei	Peking Univ	
Shi, Leyuan	Univ. of Wisconsin-Madison	
11:10-11:30	ThBT3.4	
<i>An Adaptive Machine Learning Decision System for Flexible Predictive Maintenance (I)</i> , pp. 806-811.		
Susto, Gian Antonio	Univ. of Padova	
Wan, Jian	National Univ. of Ireland, Maynooth	
Pampuri, Simone	Univ. of Pavia, Italy	
Zanon, Mattia	National Univ. of Ireland, Maynooth	
Johnston, Adrian	Seagate Tech	
O'Hara, Paul	Seagate Tech	
McLoone, Sean	NUI Maynooth	
11:30-11:50	ThBT3.5	
<i>COD and NH4-N Estimation in the Inflow of Wastewater Treatment Plants Using Machine Learning Techniques</i> , pp. 812-817.		
Kern, Peter	Cologne Univ. of Applied Sciences	
Wolf, Christian	Cologne Univ. of Applied Sciences	
Gaida, Daniel	Cologne Univ. of Applied Sciences	
Bongards, Michael	Cologne Univ. of Applied Sciences	
McLoone, Sean	NUI Maynooth	

ThBT4	Emerald
Advanced Multi-Function Intelligent Nursing Care System (Special Session)	
Chair: Fu, Li-Chen	National Taiwan Univ.
Co-Chair: Huang, Cheng-Ming	National Taipei Univ. of Tech.
Organizer: Fu, Li-Chen	National Taiwan Univ.
10:10-10:30	ThBT4.1
<i>Vision Based Gait Analysis on Robotic Walking Stabilization System for Patients with Parkinson's Disease (I)</i> , pp. 818-823.	
Liao, Chien-Ke	National Taiwan Univ
Lim, Chung Dial	NATIONAL TAIWAN Univ
Cheng, Ching-Ying	Ntu
Huang, Cheng-Ming	National Taipei Univ. of Tech
Fu, Li-Chen	National Taiwan Univ
10:30-10:50	ThBT4.2
<i>An Intelligent Approach to Identify Elderly Body Information (I)</i> , pp. 824-829.	
Huang, Yo-Ping	National Taipei Univ. of Tech
Yang, Wei-Jr	Ee, Ntut
Lin, Su-Yung	Ee, Ntut
10:50-11:10	ThBT4.3
<i>Development of Robotic Walking-Aid System with Mobility Assistance and Remote Monitoring (I)</i> , pp. 830-835.	
Chiang, Hsin-Han	Fu Jen Catholic Univ
Chen, Yen-Lin	National Taipei Univ. of Tech
11:10-11:30	ThBT4.4
<i>Design and Development of a Mobile Self-Care Sensor Device for Monitoring Environmental and Physiological Status (I)</i> , pp. 840-845.	
Hsiu, Wei-Hsiu	National Taipei Univ. of Tech
Hsiao, Wan-Hsin	National Taipei Univ. of Tech
Huang, Sheng-Yuan	National Taipei Univ. of Tech
Lian, Kuang-Yow	National Taipei Univ. of Tech

ThBT5		Coral
Mechatronics (Regular Session)		
Chair: Lan, Chao-Chieh	National Cheng Kung Univ.	
Co-Chair: Yao, Rui	National Astronomical Observatories, Chinese Acad. of Sciences	
10:10-10:30	ThBT5.1	
<i>A Parallel-Link Robot Prototype Driven by Pneumatic Actuators with Variable Inclination Mechanisms</i> , pp. 838-843.		
Kosaki, Takahiro	Hiroshima City Univ	
Sano, Manabu	Hiroshima City Univ	
10:30-10:50	ThBT5.2	
<i>Pose Planning of the Feed Support System of FAST</i> , pp. 846-851.		
Yao, Rui	National Astronomical Observatories, Chinese Acad. of Sciences	
10:50-11:10	ThBT5.3	
<i>Model-Based Sensor Fault Diagnosis for the Stuttgart SmartShell</i> , pp. 846-851.		
Heidingsfeld, Michael	Univ. of Stuttgart	
Kimmerle, Ursula	Univ. of Stuttgart	
Tarín, Cristina	Univ. of Stuttgart	
Sawodny, Oliver	Univ. of Stuttgart	
11:10-11:30	ThBT5.4	
<i>Sheet Type Soft Robot with Magnetic Fluid for Object Transportation</i> , pp. 852-857.		
Tone, Tadayuki	Univ. of Tsukuba	
Visentin, Francesco	Univ. of Verona	
Suzuki, Kenji	Univ. of Tsukuba	
11:30-11:50	ThBT5.5	
<i>A Novel Linear Variable-Stiffness Mechanism Using Preloaded Curved Beams</i> , pp. 852-857.		
Wu, Yi-Syuan	National Cheng Kung Univ	
Wu, Tai-Hsun	National Cheng Kung Univ	
Lan, Chao-Chieh	National Cheng Kung Univ	

ThBT6		VIP
Control Technology and Its Applications (Regular Session)		
Chair: Sawodny, Oliver		Univ. of Stuttgart
Co-Chair: Lian, Feng-Li		National Taiwan Univ.
10:10-10:30		ThBT6.1
<i>Compensation of Spatially Distributed Disturbances in Heat Conduction Systems</i> , pp. 860-865.		
Alt, Simon		Univ. of Stuttgart
Malchow, Florian		Robert Bosch GmbH
Sawodny, Oliver		Univ. of Stuttgart
10:30-10:50		ThBT6.2
<i>Continuum Worm-Like Robotic Mechanism with Decentral Control Architecture</i> , pp. 866-871.		
Eder, Martin		TU Munich
Karl, Maximilian		TU Munich
Knoll, Alois		TU Munich
Riesner, Stefan		Robotics Tech. Leaders GmbH
10:50-11:10		ThBT6.3
<i>Filter-Based PV Power Smoothing Control for Island Hybrid Energy Systems with High PV Penetration</i> , pp. 872-877.		
Sachs, Julia		Univ. of Stuttgart
Mueller, Bertram		Univ. of Stuttgart
Tom, Kevin		Res. Center Bosch Singapore
Sawodny, Oliver		Univ. of Stuttgart
11:10-11:30		ThBT6.4
<i>Input-Output Finite-Time Stability of Time-Delay Systems and Its Application to Active Vibration Control</i> , pp. 878-882.		
Xue, Wenping		Jiangsu Univ
Li, Kangji		Jiangsu Univ
11:30-11:50		ThBT6.5
<i>A Gabor Based Fast Interest Point Detector for Image-Based Robot Visual Servo Control</i> , pp. 883-888.		
Cao, Zhengcai		Beijing Univ. of Chemical Tech
Ma, Fengle		Beijing Univ. of Chemical Tech
Dai, Jian		School of Natural and Mathematical Sciences, King's Coll. Lond
Zhang, Jian		Tongji Univ

ThCT1		Lily
Intelligent Automation Technologies for Machine Tools (Special Session)		
Chair: Hung, Min-Hsiung		Chinese Culture Univ.
Co-Chair: Chen, Chao-Chun		National Cheng Kung Univ.
Organizer: Hung, Min-Hsiung		Chinese Culture Univ.
Organizer: Chen, Chao-Chun		National Cheng Kung Univ.
Organizer: Yang, Haw-Ching		National Kaohsiung First Univ. of Sci. and Tech.
13:00-13:20		ThCT1.1
<i>Development of an Intelligent Manufacturing Cloud for Machine Tools (I)</i> , pp. 1-10		
Hung, Min-Hsiung		Chinese Culture Univ
Yang, Haw-Ching		National Kaohsiung First Univ. of Sci. and Tech
Chen, Chao-Chun		National Cheng Kung Univ
Lee, Rong-Shean		National Cheng Kung Univ
Kao, Yung-Chou		National Kaohsiung Univ. of Applied Sciences
Cheng, Fan-Tien		National Cheng Kung Univ
13:20-13:40		ThCT1.2
<i>Apply Cloud-Based Ontology Inference to Computer Aided Process Planning Service for Wheel Design (I)</i> , pp. 1-10		
Chen, Chao-Chun		National Cheng Kung Univ
Hung, Min-Hsiung		Chinese Culture Univ
Tsai, Yen-Ju		National Cheng Kung Univ
Lin, ChinYin		National Cheng Kung Univ
Chen, Mau-Sheng		National Kaohsiung Univ. of Applied Sciences
Lee, Rong-Shean		National Cheng Kung Univ
Cheng, Fan-Tien		National Cheng Kung Univ
13:40-14:00		ThCT1.3
<i>Development of Auto-Scaling Cloud Manufacturing Framework for Machine Tool Industry (I)</i> , pp. 893-898.		
Chen, Chao-Chun		National Cheng Kung Univ
Lin, Yu-Chuan		National Cheng Kung Univ
Hung, Min-Hsiung		Chinese Culture Univ
Lin, ChinYin		National Cheng Kung Univ
Tsai, Yen-Ju		National Cheng Kung Univ
Chen, Mau-Sheng		National Kaohsiung Univ. of Applied Sciences
Cheng, Fan-Tien		National Cheng Kung Univ
14:00-14:20		ThCT1.4
<i>A Multi-Objective Optimization Approach for Selecting Key Features of Machining Processes (I)</i> , pp. 899-904.		
Tieng, Hao		National Cheng Kung Univ
Yang, Haw-Ching		National Kaohsiung First Univ. of Sci. and Tech
Cheng, Fan-Tien		National Cheng Kung Univ
Hung, Min-Hsiung		Chinese Culture Univ
14:20-14:40		ThCT1.5
<i>Open Architecture of Virtual Machine Tool for Cloud Computing (I)</i> , pp. 905-909.		
Lee, Rong-Shean		National Cheng Kung Univ
Mei, KoJen		National Cheng Kung Univ
Xu, Peng		National Cheng Kung Univ
Wu, Chang Ming		National Cheng Kung Univ
14:40-15:00		ThCT1.6
<i>Development of a Private Cloud-Based New-Generation Virtual Metrology System (I)</i> , pp. 910-915.		
Hung, Min-Hsiung		Chinese Culture Univ
Lin, Yu-Chuan		National Cheng Kung Univ
Huang, Hsien-Cheng		National Cheng Kung Univ
Jia-Jiun, Due		National Cheng Kung Univ
Cheng, Fan-Tien		National Cheng Kung Univ

ThCT2		Narcissus
Intelligent Vehicle Technology (Special Session)		
Chair: Chen, Cheng-Foo	Hua-Chuang Automobile Information Tech. Center (HAITEC)	
Co-Chair: Chen, Bo-Chiuan	National Taipei Univ. of Tech.	
Organizer: Chen, Cheng-Foo	Hua-Chuang Automobile Information Tech. Center (HAITEC)	
Organizer: Chen, Bo-Chiuan	National Taipei Univ. of Tech.	
Organizer: Hsieh, Feng-Chi	Hua-Chuang Automobile Information Tech. Center (HAITEC)	
13:00-13:20		ThCT2.1
<i>Improving the Stability and Fuel Economy for Belt-Starter Generator Mild HEV at Idle Speed Using Model Predictive Control (I)</i> , pp. 916-921.		
Hsieh, Feng-Chi	Hua-Chuang Automobile Information Tech. Center (HAITEC)	
Huang, Yin-Dar	Hua-Chuang Automobile Information Tech. Center (HAITEC)	
Peng, Yu-Wen	Hua-Chuang Automobile Information Tech. Center (HAITEC)	
13:20-13:40		ThCT2.2
<i>Design of Lane Keeping System Using Adaptive Model Predictive Control (I)</i> , pp. 922-926.		
Chen, Bo-Chiuan	National Taipei Univ. of Tech.	
Luan, Bi-Cheng	Hua-Chung Automobile Information Tech. Center	
Lee, Kangwon	Korea Pol. Univ.	
13:40-14:00		ThCT2.3
<i>Trajectory Generation Method Using Bezier Spiral Curves for High-Speed On-Road Autonomous Vehicles</i> , pp. 927-932.		
Park, Byungjae	Etri	
Lee, Yu-Cheol	Electronics/Telecomm. Res. Inst	
14:00-14:20		ThCT2.4
<i>Development of Autonomous Emergency Braking Control System Based on Road Friction (I)</i> , pp. 933-937.		
Han, I-Chun	Hua-Chuang Automobile Information Tech. Center	
Luan, Bi-Cheng	Hua-Chung Automobile Information Tech. Center	
Hsieh, Feng-Chi	Hua-Chuang Automobile Information Tech. Center (HAITEC)	
14:20-14:40		ThCT2.5
<i>Real-Time Lithium-Ion Battery Internal Condition Estimation and Fault Detection (I)</i> , pp. 938-942.		
Liao, Po-Hsuan	National Taiwan Univ	
Li, Kang	National Taiwan Univ	
Chang, Cheng-Jui	National Taiwan Univ	
Yong, Hong-Tsu	National Taiwan Univ	

ThCT3		Jasper
Simulation Optimization and Building Automation II (Special Session)		
Chair: Xia, Li		Tsinghua Univ.
Co-Chair: Chen, Chun-Hung		National Taiwan Univ.
Organizer: Jia, Qing-Shan		Tsinghua Univ.
Organizer: Chen, Chun-Hung		National Taiwan Univ.
Organizer: Lee, Loo Hay		National Univ. of Singapore
Organizer: Zhao, Qianchuan		Tsinghua Univ.
13:00-13:20		ThCT3.1
<i>A New Method to Solve Large-Scale Building Energy Management for Energy Saving (I)</i> , pp. 940-945.		
Xu, Zhanbo		Xi'an Jiaotong Univ
Jia, Qing-Shan		Tsinghua Univ
Guan, Xiaohong		Xi'an Jiaotong Univ
Xie, Xiaolan		Ec. Des Mines De Saint Etienne
13:20-13:40		ThCT3.2
<i>System Identification for Building Energy Estimation (I)</i> , pp. 946-952.		
Li, Xiwang		Drexel Univ
Wen, Jin		Drexel Univ
13:40-14:00		ThCT3.3
<i>Groundhog Day: Iterative Learning for Building Temperature Control (I)</i> , pp. 948-953.		
Minakais, Matt		Rensselaer Pol. Inst
Mishra, Sandipan		Rpi
Wen, John		Rensselaer Pol. Inst
14:00-14:20		ThCT3.4
<i>A Residential Load Scheduling Approach Based on Load Behavior Analysis (I)</i> , pp. 954-959.		
Chen, Siyun		Xi'an Jiaotong Univ
Gao, Feng		Xi'an Jiaotong Univ
Guan, Xiaohong		Xi'an Jiaotong Univ
Liu, Ting		Xi'an Jiaotong Univ
Che, Yulin		Xi'an Jiaotong Univ
Liu, Yuqi		Xi'an Jiaotong Univ
14:20-14:40		ThCT3.5
<i>A Dual-Infrared Sensing System for Occupant Distribution Estimation in Buildings (I)</i> , pp. 960-965.		
Lang, Zhenning		Tsinghua Univ
Jia, Qing-Shan		Tsinghua Univ
Lei, Yulin		Tsinghua Univ
Xie, Xiaolan		Ec. Des Mines De Saint Etienne
14:40-15:00		ThCT3.6
<i>Energy-Efficient Building Clusters (I)</i> , pp. 966-971.		
Yan, Bing		Univ. of Connecticut
Luh, Peter		Univ. of Connecticut
Bragin, Mikhail		Univ. of Connecticut
Song, Chen (Steven)		Enn
Dong, Chenhui		ENN Group
Gan, Zhongxue		ENN Group

ThCT4		Emerald
Novel Actuation and Sensing Control (Special Session)		
Chair: Lan, Chao-Chieh		National Cheng Kung Univ.
Co-Chair: Chang, Jen-Yuan (James)		National Tsing Hua Univ.
Organizer: Chen, XiaoQi		Univ. of Canterbury
Organizer: Chang, Jen-Yuan (James)		National Tsing Hua Univ.
13:00-13:20		ThCT4.1
<i>A Lightweight Gravity-Balanced Exoskeleton for Home Rehabilitation of Upper Limbs</i> , pp. 972-977.		
Hsieh, Hsiang-Chien		National Cheng Kung Univ
Lan, Chao-Chieh		National Cheng Kung Univ
13:20-13:40		ThCT4.2
<i>The Experiments of Wearable Robot for Carrying Heavy-Weight Objects of Shipbuilding Works</i> , pp. 978-983.		
Chu, Gilwhoan	Daewoo Shipbuilding & Marine Engineering Co., Ltd	
Hong, Jincheol		Dsme
Jeong, Dong-Hyun	Daewoo Shipbuilding & Marine Engineering Co., Ltd	
Kim, Dongsu		Dsme
Kim, Sooho	The Automation R&D Inst. of Daewoo Shipbuilding and Marine E	
Jeong, Seungwoo	Daewoo Shipbuilding & Marine Engineering Co., Ltd	
Choo, Junghoon	Hanyang Univ. and DSME(Daewoo Shipbuilding & Marine Enginee	
13:40-14:00		ThCT4.3
<i>Sensor Guided Biped Felling Machine for Steep Terrain Harvesting (I)</i> , pp. 984-989.		
Meaclem, Christopher Vincent		Univ. of Canterbury
Shao, Lei		Tianjin Univ. of Tech
Parker, Richard		Scion New Zealand
Gutschmidt, Stefanie		Univ. of Canterbury, Christchurch
Hann, Christopher Eric		Univ. of Canterbury
Milne, Bartholomew James Estall		Univ. of Canterbury
Chen, XiaoQi		Univ. of Canterbury
14:00-14:20		ThCT4.4
<i>Development of an Active Powered Biped Lower Limb Exoskeleton (I)</i> , pp. 990-995.		
Jackson, Samuel		Univ. of Canterbury
Ellis, Liam		Univ. of Canterbury
Liu, Cheng-Yueh		Univ. of Canterbury
Molloy, Peter		Univ. of Canterbury
Paterson, Kelsey		Univ. of Canterbury
Chen, XiaoQi		Univ. of Canterbury
14:20-14:40		ThCT4.5
<i>Design and Development of the Wearable Hand Exoskeleton System for Rehabilitation of Hand Impaired Patients (I)</i> , pp. 996-1001.		
Pu, Shu-Wei (Wayne)		National Tsing Hua Univ
Tsai, Sung-Yu (Jimmy)		National Tsing Hua Univ
Chang, Jen-Yuan (James)		National Tsing Hua Univ
14:40-15:00		ThCT4.6
<i>A New Designed Quadruped Robot with Elastic Joints (I)</i> , pp. 1002-1007.		
Lv, Mingxing		Beihang Univ
Chen, Weihai	Beijing Univ. of Aeronautics and Astronautics	
Ding, Xilun	Beijing Univ. of Aeronautics and Astronautics	
Wang, Jianhua	Beijing Univ. of Aeronautics and Astronautics	
Chen, XiaoQi		Univ. of Canterbury

ThCT5		Coral
Robot Recognition and Manipulation in Uncertain Environments (Special Session)		
Chair: Song, Kai-Tai		National Chiao Tung Univ.
Co-Chair: Young, Kuu-young		NCTU
Organizer: Song, Kai-Tai		National Chiao Tung Univ.
Organizer: Young, Kuu-young		NCTU
Organizer: Hu, Jwu-Sheng		National Chiao Tung Univ.
13:00-13:20		ThCT5.1
<i>GNSS/INS Sensor Fusion Using Kalman Filter with Online Savitzky-Golay Based Covariance Adaptation (I)</i> , pp. 1014-1019.		
Cheng, Chi-Yuan		Nctu
Sun, Kuan-Chun		National Chiao Tung Univ
Hu, Jwu-Sheng		National Chiao Tung Univ
13:20-13:40		ThCT5.2
<i>Design of Tactile Sensor Array on Electric Gripper Jaws for Wire Gripping Recognition (I)</i> , pp. 1014-1019.		
Su, Jui-Yiao		Itri
Ko, Wen-Ching		Itri
Liu, Yan-Chen		Itri
Liu, Chang-Ho		Industrial Tech. Res. Inst
Hu, Jwu-Sheng		Itri
Ku, Hong-Chi		Tatung Univ
Kung, Chung-Chun		Department of Electrical Engineering, Tatung Univ
13:40-14:00		ThCT5.3
<i>Error Analysis and Experiments of 3D Reconstruction Using a RGB-D Sensor (I)</i> , pp. 1020-1025.		
Jiang, Sin-Yi		National Chiao Tung Univ
Chang, Nelson Yen-Chung		Industrial Tech. Res. Inst
Wu, Chin-Chia		Industrial Tech. Res. Inst
Wu, Cheng-Hei		Taiwan
Song, Kai-Tai		National Chiao Tung Univ
14:00-14:20		ThCT5.4
<i>Design and Implementation of a Ball-Batting Robot with Optimal Batting Decision Making Ability (I)</i> , pp. 1026-1031.		
Hsiao, Tesheng		National Chiao Tung Univ
Yang, Chang-Mou		National Chiao Tung Univ
Lee, I-Hsi		National Chiao Tung Univ
Hsiao, Chin-Chi		Industrial Tech. Res. Inst
14:20-14:40		ThCT5.5
<i>Guidance and Obstacle Avoidance of Passive Robot Walking Helper Based on Receding Horizon Control (I)</i> , pp. 1032-1037.		
Ko, Chun-hsu		I-Shou Univ
Hsieh, Yi-Hung		National Chiao Tung Univ
Chang, Yao-Tse		National Chiao Tung Univ
Agrawal, Sunil		Columbia Univ
Young, Kuu-young		Nctu
14:40-15:00		ThCT5.6
<i>Human Hand Gesture Recognition Using a Convolution Neural Network (I)</i> , pp. 1038-1043.		
Lin, Hsien-I		National Taipei Univ. of Tech
Hsu, Ming Hsiang		National Taipei Univ. of Tech
Chen, Wei-Kai		National Taipei Univ. of Tech

ThCT6		VIP
Microsystem Sensing Technologies (Special Session)		
Chair: Yang, Yao Joe	National Taiwan Univ.	
Co-Chair: Juang, Jia-Yang	National Taiwan Univ.	
Organizer: Yang, Yao Joe	National Taiwan Univ.	
13:00-13:20	ThCT6.1	
<i>The Demonstration of the V-Shape Giant Magneto-Resistance for the 3-D Magnetic Detection (I)</i> , pp. 1-4		
Liao, Ming-Han	National Taiwan Univ	
13:20-13:40	ThCT6.2	
<i>Three-Dimensional Cellular Traction Force Microscopy Based on Finite-Element Method (I)</i> , pp. 1-4		
Lee, Hung-Huei	National Taiwan Univ	
Yang, Hsuan	National Central Univ	
Lin, Keng-Hui	Acad. Sinica	
Juang, Jia-Yang	National Taiwan Univ	
13:40-14:00	ThCT6.3	
<i>The Research and Development of Disposable Water Quality Flexible Dissolved Oxygen Sensor (I)</i> , pp. 1-4		
Kuo, Wen-Cheng	National Kaohsiung First Univ. of Science and Tech	
Liou, Chien-Chih	National Kaohsiung First Univ. of Science and Tech	
14:00-14:20	ThCT6.4	
<i>A Passive Inertial Switch Using MWCNT-Hydrogel Composite with Wireless Interrogation Capability (I)</i> , pp. 1-4		
Kuo, Jui-Chang	National Taiwan Univ	
Yang, Yao Joe	National Taiwan Univ	
14:20-14:40	ThCT6.5	
<i>A Novel Inertial Switch with Adjustable Acceleration Threshold by Using MEMS Digital-To-Analog Converter (I)</i> , pp. 1-4		
Yang, Yao Joe	National Taiwan Univ	
Cheng-Wen, Ma	National Taiwan Univ	

ThDT1		Lily
Scheduling and Optimization II (Regular Session)		
Chair: Wang, Hsiao-Fan	National Tsing Hua Univ.	
Co-Chair: Murakami, Keisuke	Aoyama Gakuin Univ.	
15:20-15:40	ThDT1.1	
<i>A Survey on the Open Shop Scheduling Problem with Nonlinear Objective Functions (I)</i> , pp. 1-10		
Bai, Danyu	Shenyang Univ. of Chemical Tech	
Zhang, Zhihai	Tsinghua Univ	
15:40-16:00	ThDT1.2	
<i>Prognostics-Based Scheduling in a Distributed Platform: Model, Complexity and Resolution</i> , pp. 1054-1059.		
Herr, Nathalie	FEMTO-ST Inst	
Nicod, Jean Marc	Ensmm	
Varnier, Christophe	Ensmm-Ufc-Cnrs	
16:00-16:20	ThDT1.3	
<i>An Intelligent Dispatching and Routing System for AGVs (I)</i> , pp. 1-10		
Wang, Hsiao-Fan	National Tsing Hua Univ.	
16:20-16:40	ThDT1.4	
<i>Stochastic Optimization with Inequality Constrains Via Gradient Selection Stochastic Approximation (I)</i> , pp. 1-10		
Zhao, Yaping	Peking Univ	
Xu, Xiaoyun	Peking Univ. Coll. of Engineering	
16:40-17:00	ThDT1.5	
<i>A Column Generation Approach for the Multi-Vehicle Covering Tour Problem</i> , pp. 1063-1068.		
Murakami, Keisuke	Aoyama Gakuin Univ	
17:00-17:20	ThDT1.6	
<i>A Mixed Integer Programming Model for Bed Planning Considering Stochastic Length of Stay</i> , pp. 1069-1074.		
Xu, Lei	Shanghai Jiaotong Univ	
Na, Li	Shanghai Jiaotong Univ	
Yu, Xin	Shang Hai Jiaotong Univ	
Mo, Fan	Shanghai Jiaotong Univ	

ThDT2	Narcissus
Simulation Optimization and Building Automation III (Special Session)	
Chair: Zhao, Qianchuan	Tsinghua Univ.
Co-Chair: Chen, Chun-Hung	National Taiwan Univ.
Organizer: Jia, Qing-Shan	Tsinghua Univ.
Organizer: Chen, Chun-Hung	National Taiwan Univ.
Organizer: Lee, Loo Hay	National Univ. of Singapore
Organizer: Zhao, Qianchuan	Tsinghua Univ.
15:20-15:40	ThDT2.1
<i>Experimental Study of Group Thermal Comfort Model (I)</i> , pp. 1075-1078.	
Zhao, Qianchuan	Tsinghua Univ
Cheng, Zhijin	Tsinghua Univ
Wang, Fulin	Tsinghua Univ
Jiang, Yi	Tsinghua Univ
Ding, Jinlei	United Tech. Res. Center (China) Ltd
15:40-16:00	ThDT2.2
<i>Modeling Building Occupancy Using a Novel Inhomogeneous Markov Chain Approach (I)</i> , pp. 1079-1084.	
Chen, Zhenghua	Nanyang Tech. Univ
Soh, Yeng Chai	Nanyang Tech. Univ
16:00-16:20	ThDT2.3
<i>Stochastic Chiller Sequencing Control for Multiple-Chiller Plants (I)</i> , pp. 1085-1090.	
Huang, Gongsheng	City Univ. of Hong Kong
Li, Zhengwei	City Univ. of Hong Kong
16:20-16:40	ThDT2.4
<i>A Scenario-Based Distributed Stochastic MPC for Building Temperature Regulation (I)</i> , pp. 1091-1096.	
Long, Yushen	Nanyang Tech. Univ
Liu, Shuai	Nanyang Tech. Univ
Xie, Lihua	School of Electrical and Electronic Engineering Nanyang Tech
Johansson, Karl H.	Royal Inst. of Tech
16:40-17:00	ThDT2.5
<i>Applications of Data Assimilation to Forecasting Indoor Environment (I)</i> , pp. 1097-1102.	
Lin, Cheng-Chun	Concordia Univ
Wang, Liangzhu	Concordia Univ
17:00-17:20	ThDT2.6
<i>Fault Diagnosis Framework for AHUs Based on the Integration of D-Matrices and PCA (I)</i> , pp. 1103-1108.	
Yan, Ying	Univ. of Connecticut
Luh, Peter	Univ. of Connecticut
Pattipati, Krishna	Univ. of Connecticut
17:20-17:40	ThDT2.7
<i>IMpACT: Inverse Model Accuracy and Control Performance Toolbox for Buildings (I)</i> , pp. 1109-1114.	
Behl, Madhur	Univ. of Pennsylvania
Nghiem, Truong	Univ. of Pennsylvania
Mangharam, Rahul	Univ. of Pennsylvania

ThDT3		Jasper
Smart Manufacturing and Commerce (Special Session)		
Chair: Yang, Ren-Dar		Inst. for Information Industry
Co-Chair: Chang, Wei-Shih		Inst. for Information Industry
Organizer: Chang, Wei-Shih		Inst. for Information Industry
15:20-15:40		ThDT3.1
<i>Data Mining for Analysing Kiosk Usage Behavior Patterns (I)</i> , pp. 1115-1120.		
Deng, Guang-Feng		Inst. for Information Industry (III)
Hung, Yu-Shiang	Innovative DigiTech-Enabled Applications & Services	Inst. I
Chen, Kuei-Ling B.	Innovative DigiTech-Enabled Applications & Services	Inst. I
Yang, Chi-Ta	Innovative DigiTech-Enabled Applications & Services	Inst. I
Yeh, Yi-Hsuan	Innovative DigiTech-Enabled Applications & Services	Inst. I
Wu, Nien-Chu	Service Systems Tech. Center, Industrial Tech. Res	
15:40-16:00		ThDT3.2
<i>Toward Mining Anomalous Behavior from Big Moving Trajectories in Surveillance Video (I)</i> , pp. 1121-1126.		
Chang, Chien-Wei		National Cheng Kung Univ
Yang, Min-Hsiang	Department of Computer Science and Information Engineering,	Nati
Li, Cheng-Chun		National Cheng Kung Univ
Chuang, Kun-Ta		National Cheng Kung Univ
16:00-16:20		ThDT3.3
<i>Non-Intrusive Load Monitoring Applied in Energy Efficiency of the Smart Manufacturing Industry: A Case of Air-Conditioner (I)</i> , pp. 1127-1132.		
Lai, Ying-Hsun		Inst. for Information Industry
Tsai, I Ju		Inst. for Information Industry
Chiu, Chien Yi		Inst. for Information Industry
Lai, Chin-Feng		National Ilan Univ
16:20-16:40		ThDT3.4
<i>Design of Client Device Identification by Clock Skew in Clouds (I)</i> , pp. 1133-1138.		
Ding-Jie, Huang		Inst. for Information Industry
Yang, Kai-Ting		National Taiwan Univ. of Science and Tech
Teng, Wei-Chung		National Taiwan Univ. of Science and Tech
Chiu, Ge-Ming		National Taiwan Univ. of Science and Tech
16:40-17:00		ThDT3.5
<i>Pedestrian Tracking System by Using Human Shape Prior Model (I)</i> , pp. 1139-1143.		
Li, Ke-Chun		lii
Wang, Hui-Chun		lii
Chiu, Jing-Ming		lii
17:00-17:20		ThDT3.6
<i>Complex Event Processing for the Internet of Things and Its Applications (I)</i> , pp. 1144-1149.		
Chen, Ching Yu		Inst. for Information Industry
Fu, JuiHsi		Inst. of Information Industry
17:20-17:40		ThDT3.7
<i>Advanced Manufacturing Solution to Industry 4.0 Trend through Sensing Network and Cloud Computing Technologies (I)</i> , pp. 1150-1152.		
Yen, ChunTai		National Taiwan Univ
Hsu, Yu-Rong		Inst. for Information Industry
Liu, Yu-Chi		Inst. for Information Industr
Lin, Chih-Chieh		Inst. for Information Industry
Wang, Wen Bin		Inst. for Information Industry
Kao, Chih Chiang		Inst. for Information Industry

ThDT4		Emerald
Humanoid and Service Robots (Regular Session)		
Chair: Popa, Dan		The Univ. of Texas at Arlington
Co-Chair: Lin, Hsien-I		National Taipei Univ. of Tech.
15:20-15:40		ThDT4.1
<i>Robotic Waiter with Physical Co-Manipulation Capabilities</i> , pp. 1153-1158. Attachment		
Cremer, Sven		Univ. of Texas at Arlington
Ranatunga, Isura		Univ. of Texas at Arlington
Popa, Dan		The Univ. of Texas at Arlington
15:40-16:00		ThDT4.2
<i>Learning Human-Like Facial Expressions for Android Phillip K. Dick</i> , pp. 1159-1165. Attachment		
Habib, Md Ahsan		Univ. of Texas at Arlington
Das, Sumit Kumar		The Univ. of Texas at Arlington
Bogdan, Ioana Corina		Paul Verlaine Univ. of Metz
Hanson, David		Hanson Robotics Inc
Popa, Dan		The Univ. of Texas at Arlington
16:00-16:20		ThDT4.3
<i>Online Maintaining Behavior of High-Load and Unstable Postures Based on Whole-Body Load Balancing Strategy with Thermal Prediction</i> , pp. 1166-1171. Attachment		
Noda, Shintaro		Unv Tokyo
Murooka, Masaki		The Univ. of Tokyo
Nozawa, Shunichi		The Univ. of Tokyo
Kakiuchi, Yohei		The Univ. of Tokyo
Okada, Kei		The Univ. of Tokyo
Inaba, Masayuki		The Univ. of Tokyo
16:20-16:40		ThDT4.4
<i>Kinesthetic Teaching for Designing Humanoid Robot Motion (I)</i> , pp. 1172-1177. Attachment		
Lin, Hsien-I		National Taipei Univ. of Tech
16:40-17:00		ThDT4.5
<i>Lifting Motion Planning for Humanoid Robots (I)</i> , pp. 1174-1179. Attachment		
Lee, Hung-Yi		National Taiwan Univ
Huang, Han-Pang		National Taiwan Univ
Hsu, Huan-Kun		National Taiwan Univ
17:00-17:20		ThDT4.6
<i>Vision-Guided Navigation of an Adult-Size Humanoid Robot in Obstacle Avoidance Matches (I)</i> , pp. 1180-1185. Attachment		
Chou, Hung-Chyun		National Taiwan Univ. of Science and Tech.
Feng, Chen-Huan		National Taiwan Univ. of Science and Tech.
Kuo, Chung-Hsien		National Taiwan Univ. of Science and Tech.
17:20-17:40		ThDT4.7
<i>Adaptive Reinforcement Learning in Box-Pushing Robots</i> , pp. 1182-1187. Attachment		
Hwang, Kao-Shing		Nationa Sun Yat-Sen Univ
Lin, Jin-Ling		Shih Hsin Univ
Wang, Wei-Han		Precision Machinery Res. & Development Center
17:40-18:00		ThDT4.8
<i>Development of a Velocity and Contact Force-Based Mechanical Safety Device for Service Robots</i> , pp. 1188-1193. Attachment		
Kai, Yoshihiro		Tokai Univ
Sando, Seitaro		Tokai Univ

ThDT5		Coral
Robotic Automation Science for Human Life (Special Session)		
Chair: Lian, Feng-Li		National Taiwan Univ.
Co-Chair: Yen, Ping-Lang		National Taiwan Univ.
Organizer: Lian, Feng-Li		National Taiwan Univ.
15:20-15:40		ThDT5.1
<i>1-Point Affine RANSAC for Scene Image Matching in Appearance-Based Localization (I)</i> , pp. 1194-1199.		
Chou, Chih Chung		National Taiwan Univ
Wang, Chieh-Chih		National Taiwan Univ
15:40-16:00		ThDT5.2
<i>Inverse Observation Model and Multiple Hypothesis Tracking for Indoor Mobile Robots (I)</i> , pp. 1200-1205.		
Lian, Feng-Li		National Taiwan Univ
16:00-16:20		ThDT5.3
<i>Development of an Escalator Riding Robot: Experiment of Riding on an up Escalator</i> , pp. 1206-1211.		
Matsuhira, Nobuto		Shibaura Inst. of Tech
Hirota, Kazuhiro		Shibaura Inst. of Tech
Namatame, Shogo		Shibaura Inst. of Tech
16:20-16:40		ThDT5.4
<i>Force Sensation for a Steerable Endoscope</i> , pp. 1206-1211.		
Yen, Ping-Lang		National Taiwan Univ
Chu, Yi-Jing		National Taiwan Univ
16:40-17:00		ThDT5.5
<i>Disco Lamp: An Interactive Robot Lamp (I)</i> , pp. 1214-1219.		
Lin, Hung-Sheng		National Taiwan Univ
Shen, Yi-Tung		National Taiwan Univ
Lin, Tzu-Han		National Taiwan Univ
Lin, Pei-Chun		National Taiwan Univ
17:00-17:20		ThDT5.6
<i>Voltage-Current-Based State and Disturbance Estimation for Power-Assisted Control Applied to an Electric Wheelchair</i> , pp. 1220-1225.		
Hsueh, Po-Wen		National Cheng Kung Univ
Tsai, Mi-Ching		National Cheng Kung Univ
17:20-17:40		ThDT5.7
<i>SkinSim: A Simulation Environment for Multimodal Robot Skin</i> , pp. 1226-1231. Attachment		
Habib, Md Ahsan		Univ. of Texas at Arlington
Ranatunga, Isura		Univ. of Texas at Arlington
Shook, Kyle		Univ. of Texas at Arlington
Popa, Dan		The Univ. of Texas at Arlington

ThDT6		VIP
Robotic Manipulation and Assembly (Regular Session)		
Chair: Ding, Hao	ABB Corp. Res. Center Germany	
Co-Chair: Huang, Shu	Industrial Tech. Res. Inst. Taiwan	
15:20-15:40	ThDT6.1	
<i>Mechanically Programmed Self-Folding at the Millimeter Scale</i> , pp. 1232-1237. Attachment		
Felton, Samuel	Harvard Univ	
Tolley, Michael Thomas	Harvard Univ	
Wood, Robert	Harvard Univ	
15:40-16:00	ThDT6.2	
<i>Online Trajectory Tracking Based on Model Predictive Control for Service Robot</i> , pp. 1238-1243.		
Luo, Ren	National Taiwan Univ	
Huang, Kai-Chieh	National Taiwan Univ	
Alami, Rachid	Cnrs	
16:00-16:20	ThDT6.3	
<i>Advanced-Collision-Map-Based On-Line Collision and Deadlock Avoidance between Two Robot Manipulators with PTP Commands</i> , pp. 1244-1251. Attachment		
Afaghani, Ahmad Yasser	Univ. of Tsukuba	
Aiyama, Yasumichi	Univ. of Tsukuba	
16:20-16:40	ThDT6.4	
<i>Contact Force Estimation for Robotic Assembly Using Motor Torques</i> , pp. 1252-1257.		
Wahrburg, Arne	Abb	
Zeiß, Stefan	TU Darmstadt	
Matthias, Björn	ABB AG, Corp. Res. Center Germany	
Ding, Hao	ABB Corp. Res. Center Germany	
16:40-17:00	ThDT6.5	
<i>Grasping Unknown Objects Using Depth Gradient Feature with Eye-In-Hand RGB-D Sensor</i> , pp. 1258-1263.		
Lin, Yu-Chi	National Taiwan Univ	
Wei, Shao-Ting	National Taiwan Univ	
Fu, Li-Chen	National Taiwan Univ	
17:00-17:20	ThDT6.6	
<i>3D Object Detection and Pose Estimation from Depth Image for Robotic Bin Picking</i> , pp. 1264-1269.		
Kuo, Hao-Yuan	National Tsing Hua Univ	
Su, Hong-Ren	National Tsing Hua Univ	
Lai, Shang-Hong	National Tsing Hua Univ	
Wu, Chin-Chia	Industrial Tech. Res. Inst	
17:20-17:40	ThDT6.7	
<i>Object Recognition and Localization for Robust Grasping with a Dexterous Gripper in the Context of Container Unloading</i> , pp. 1270-1277. Attachment		
Vaskevicius, Narunas	Jacobs Univ	
Mueller, Christian Atanas	Jacobs Univ	
Bonilla, Manuel	Univ. of Pisa, Centro "E. Piaggio"	
Tincani, Vinicio	Faculty of Engineering - Univ. of Pisa	
Stoyanov, Todor	Center for Applied Autonomous Sensor Systems	
Fantoni, Gualtiero	Univ. of Pisa	
Pathak, Kaustubh	Jacobs Univ. Bremen	
Lilienthal, Achim J.	Örebro Univ	
Bicchi, Antonio	Univ. Di Pisa & Istituto Italiano Di Tecnologia	
Birk, Andreas	Jacobs Univ	
17:40-18:00	ThDT6.8	
<i>Motion Planning of a 7-Axis Robot Manipulator Via Modified Tension Spline and Convex Optimization (I)</i> , pp. 1278-1283.		
Huang, Shu	Industrial Tech. Res. Inst. Taiwan	
Chao, Hsiao-Han	Univ. of California, Los Angeles	
Miranda Canales, Ángel Giancarlo	National Tsing Hua Univ	