TECHNICAL PROGRAM OVERVIEW

PARALL	EL SESSION	RAM – 1	RAM – 2	RAM – 3	CIS - 4	CIS – 5	CIS - 6	Interactive	
LOCATION		Song Hall, Level 3	Tang Hall, Level 3	Han Hall, Level 3	Jin Sha Hall, Level 4	Long Quan Hall, Level 4	Jia Ling Hall, Level 4	Foyer, Level 3	
(81	0900 – 1000 P								
MONDAY 8) (22 September, 2008)	Session 1 1030 – 1230	MA1 (Invited Session) Emerging Technologies for Industrial Robots	MA2 Control, Haptics, Teleoperation and Network Robotics	MA3 Modeling, Planning and Control I	MA4 Neural Networks I	MA5 Computer Vision I	MA6 Manufacturing Systems		
	Session 2 1330 – 1530	MM1 (Invited Session) Intelligent Control Theory in Aerial Maintenance Engineering I	MM2 Design Evaluation, Scheduling & Discrete Event Dynamic Systems	MM3 Robotics and Automation Applications I	MM4 Soft Computing, Fuzzy Systems I	MM5 Image Processing I	MM6 Quality / Reliability & Systems Engineering	MMP CIS Interactive Session I & RAM Interactive Session I	
	Session 3 1600 – 1800	MP1 (Invited Session) Intelligent Control Theory in Aerial Maintenance Engineering II	MP2 Kinematics, Mechanics and Mechanism Design	MP3 Medical Robots & Methodologies for Robotics	MP4 Computational Intelligence I	MP5 Pattern Recognition	MP6 Data Mining and Management	MPP CIS Interactive Session II & RAM Interactive Session II	
	0900 – 1000 Plenary Speech 2: Compliant Mechanisms for MEMS and Flexonics by Prof. Michael Y. Wang, The Chinese University of Hong Kong, NT, Hong Kong, China (Ballroom, Level 3)								
TUESDAY (23 September, 2008)	Session 1 1030 – 1230	TA1 Dynamics, Motion Control	<u>TA2</u> Biologically-Inspired Robots & Petri Net	TA3 Modeling, Planning and Control II	TA4 Soft Computing, Fuzzy Systems II	TA5 Computer Vision II	TA6 Decision Support Systems I	TAP CIS Interactive Session III & RAM Interactive Session III	
TUE	Session 2 1330 – 1530	TM1 (Invited Session) Robot Control I	TM2 Sensor Design, Integration, and Fusion	TM3 Robotics and Automation Applications II	TM4 Neural Networks II	TM5 Image Processing II	TM6 Intelligent Transportation System	TMP CIS Interactive Session IV & RAM Interactive Session IV	
9	Session 3 1600 – 1720	TP1 Control Architecture and Programming	TP2 Teleoperation and Aerial Maintenance Engineering	TP3 Scheduling and Control	TP4 Decision Support Systems II	TP5 Neuro-Fuzzy Systems	TP6 Expert and Knowledge Base Systems		
	0900 – 1000 P	lenary Speech 3: Knowled	lge Discovery from Netv	vorks, by Prof. Deyi Li, N	lational Natural Scienc	e Foundation of China	, China (Ballroom, Le	vel 3)	
WEDNESDAY (24 September, 2008)	Session 1 1030 – 1230	WA1 (Invited Session) Design and Control of Robot with Special Uses	WA2 Maintenance & Manufacturing System Architecture	WA3 Modeling, Planning and Control & Virtual Reality	<u>WA4</u> Neural Networks III	WA5 Image Processing III	WA6 Computational Intelligence II	WAP CIS Interactive Session V & RAM Interactive Session V	
WEDNESDAY 4 September, 200	Session 2 1330 – 1530	WM1 (Invited Session) Robot Control II	WM2 Computer Vision & Motion Control in Vehicles	WM3 Robotics and Automation Applications III	WM4 Neural Networks IV	WM5 Evolutionary Computation	WM6 Optimization	WMP CIS Interactive Session VI & RAM Interactive Session VI	
(24	Session 3 1600 – 1800	WP1 Control Architecture and Programming & Legged Robot	WP2 Control, Wheeled Mobile Robots & Sensor Design	WP3 Robotics and Automation Applications IV	WP4 Sensor Based Robotics	<u>WP5</u> Genetic Algorithm	WP6 Other Topics in CIS		

Session MA4

Neural Networks I

MA4.1 An Algebraic Criterion for Globally Exponentially Stability of Cohen-Grossberg Neural Networks with Time-Varying Delays

Xinyuan LIANG, *Tian WANG, **Zhengxia WANG, ***Haixia WU

Chongqing University

*Chongqing Technology and Business University

**Chongqing Jiaotong University

***Chongqing Education College

MA4.2 Continuous Attractors of a Class of Recurrent Neural Networks without Lateral Inhibition

Haixian ZHANG, Stones Lei ZHANG, Jiali YU, Hong QU University of Electronic Science and Technology of China

MA4.3 On-line Identification of Multivariable Processes using EKF Learning-based Adaptive Neural Networks

Karim SALAHSHOOR, Amin SABET KAMALABADY

Petroleum University of Technology

MA4.4 A Method of Remote Fault Diagnosis based on Multilayer SOM

Wenyu CHEN, Xiaobin WANG, Shixin SUN, *Jingbo LÍU University of Electronic Science and Technology of China

*Chongging Three Gorges University

MA4.5 An Integrated Intrusion Detection System by using Multiple Neural Networks

Guisong LIU, Xiaobin WANG

University of Electronic Science and Technology of China

MA4.6 Multi-person Location and Tracking Method based on BP Neural Networks

Wei PAN, Zhizhan LIU, Yi ZOU

Xiamen University

Session MA5

Computer Vision I

MA5.1	Effects of Image Alignment Error on Vehicle License Image Reconstruction using Non-unifo	rm
	Interpolation Method	

Shih Chieh LIN, Chih Ting CHEN National Tsing Hua University

MA5.2 A Fast Block Matching Algorthim for Stereo Correspondence

Tangfei TAO, Ja Choon KOO, Hyouk Ryeol CHOI Sungkyunkwan University

A Symbolic Approach to Reconstruct Polyhedral Scene from Single 2D Line Drawing Ying CHEN, *Hongbo LI MA5.3

Beijing Electronic Science and Technology Institute *Chinese Academy of Sciences

MA5.4

A Novel Image Matching Method in Camera-calibrated System Junwei YU, Lubin WENG, Yuan TIAN, Yanqing WANG, Xianqing TAI Chinese Academy of Sciences

MA5.5 SOM Based Activity Learning for Visual Surveillance System Lin QU, Fan ZHOU, Yaowu CHEN

Zhejiang University

3D Reconstruction from Uncalibrated Images Taken from Widely Separated Views MA5.6

Chunmei DUAN, Xiangxu MENG, Lu WANG Shandong University

Session MA6

Manufacturing Systems

MA6.1 A Principal-Agent Model on Reverse Supply Chain under Asymmetric Collecting Cost Information

Xiang LI, *Guohua SUN, Yongjian LI, **Xiaogiang CAI

Nankai University

*Shandong University

**The Chinese University of Hong Kong

A Research on BPM System based on Process Knowledge MA6.2

Yaxiong TAO, Guoguan ZHU, Zhen XU, *Boging LIU

Shanghai Normal University

*Southwest University

MA6.3 Research and Application of the Control Technology for Flexible Manufacturing System based on **PROFIBUS**

Changqing CAI, *Ying YU, **Rong YANG, ***Chao PANG

Changchun Institute of Technology

*Changchun Equipment and Technology Research Institute

**Sichuan Power Development Co. Ltd.

***University of Electronic Science and Technology of China

Correction Model of Carbon Potential using Al Techniques and Mechanism Analysis MA6.4

Xixia HUANG, Jiansheng PAN, Fanhuai SHI, Shanben CHEN

Shanghai Jiaotong University

A Model for Components Library based on Multi-level Assemblies and Parts Family Dongmin ZHANG, Dachao HU, *Tingxiao TANG

Shanghai Institute of Technology

*Nanjing University of Aeronautics and Astronautics

A Password-based Authenticator: P-Auth MA6.6

Linna WEI, Zhiguang QIN

University of Electronic Science and Technology of China

Session MM1 (Special Session)

Intelligent Control Theory In Aerial Maintenance Engineering I

- MM1.1 Neural Network Identifier with Iterative Learning for Turbofan Engine Rotor Speed Control System Kun QIAN, Xiangping PANG, Bangyuan LI The First Aeronautical Institute of Air Force
- MM1.2 Boundary Controller based on Fuzzy Logic Control for Certain Aircraft Wenjie YANG, Jianjun DONG, Kun QIAN, Xiangping PANG The First Aeronautical Institute of Air Force
- MM1.3 The Design of Compensators for Telecontrol System based on Network Jianwei FAN, Qi WANG, Wei CUI, Duwei YANG The First Aeronautical Institute of Air Force
- MM1.4 The Importance Analysis of Componments in the Aviation System using the Binary Decision Diagrams Hengcheng XU, Pu CHENG, *Jianguo ZHANG

 The First Aeronautical Institute of Air Force
 *Beijing University of Aeronautics and Astronautics
- MM1.5 Design of Intelligent Testing Device for Airplane Navigation Radar Xianlin ZENG, Lizhen LI The First Aeronautical Institute of Air Force
- MM1.6 Design on Electromagnetic Compatibility of Aeronautic Electrical Power System Tester Shengyuan ZHANG, Wenjie YANG, Tao ZOU The First Aeronautical Institute of Air Force

Session MM4

Soft Computing, Fuzzy Systems I

Multi-objective Fuzzy Modeling Using NSGA-II MM4.1

Zongyi XING, Yong ZHANG, Yuanlong HOU, *Guoqiang CAI Nanjing University of Science and Technology *Beijing Jiaotong University

MM4.2 New Method to Measure Pulp Flow Velocity based on Time-frequency Analysis of Pulp Consistency

Qiang ZHOU, Jiugiang HAN Xi'an Jiaotong University

MM4.3 Simulating Virtual Crowd with Fuzzy Logics and Motion Planning for Shape Template

Jen-Yao CHANG, Tsai-Yen LI National Chengchi University

MM4.4

Fuzzy Neural Network Based Prediction Coding for Bayer Pattern Image Yongqiang CHENG, Jiang ZHAO, Keming XIE, Gang ZHANG Taiyuan University of Technology

MM4.5 A New Adaptive Neuro-Fuzzy Approach for On-Line Nonlinear System Identification

Morteza HAMZEHNEJAD, Karim SALAHSHOOR Petroleum University of Technology

The SVM Classification Leafminer-infected Leaves based on Fractal Dimension MM4.6

Dake WU, Chunyan XIE, *Chengwei MA Southwest University *China Agricultural University

Session MM5

Image Processing I

- MM5.1 Implementation and Optimization of Particle Filter Tracking Algorithm on Multi-DSPs System Gongyan LI, Bin LI, Zhou LIU, Xiaopeng CHEN Chinese Academy of Sciences
- MM5.2 Facial Expression Recognition based on Histogram Sequence of Local Gabor Binary Patterns Xinghua SUN, Hongxia XU, Chunxia ZHAO, Jingyu YANG Nanjing University of Science and Technology
- MM5.3 Super Resolution based on Gradient Field
 Qiyong GUO, Hongzhi LIU, Wenbin CHEN, I-Fan SHEN
 Fudan University
- MM5.4 Left Ventricular Segmentation of Cardiac Magnetic Resonance Images using a Novel Edge Following Technique Krit SOMKANTHA, Nipon THEERA-UMPON, Sansanee AUEPHANWIRIYAKUL
 - Chiang Mai University
- MM5.5 Medical Image Fusion with a Shift-Invariant Morphological Wavelet Bo YANG, *Zhongliang JING Shandong University of Science and Technology *Shanghai Jiaotong University
- MM5.6 Fast Image Segmentation using Region Merging with a k-Nearest Neighbor Graph Hongzhi LIU, Qiyong GUO, *Mantao XU, I-Fan SHEN Fudan University
 *Carestream Company

Session MM6

Quality/Reliability & Systems Engineering

MM6.1 The Reuse Policy in Developing Multi-agent Syste	MM6.1	The Reuse	Policy	in Develor	oing Multi-a	aent Syster
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Xiao XUE, *Zhi ŚUN, Junwei LÜO Henan Polytechnic University *Zhejiang Forestry University

MM6.2 Error Equivalence Methodology for Dimensional Variation Control in Manufacturing

Qiang HUANG, Hui WANG University of South Florida

MM6.3 Cost-based FMEA and ABC Concepts for Manufacturing Process Plan Evaluation

Alaa HASSAN, Iman DAYARIAN, Ali SIADAT, Jean-Yves DANTAN *ENSAM*

MM6.4 An Intelligent FMEA System Implemented with a Hierarchy of Back-Propagation Neural Networks

Chiang KU, Yun-Shiow CHEN, Yun-Kung CHUNG Yuan Ze University

MM6.5 The Design of Water Supply Network based on GIS

Zhaoshun WANG, Zukuan WEI, *Qian YIN University of Electronic Science and Technology of China *Beijing Normal University

MM6.6 A Method for Detection of Known Objects in Visual Search Tasks

Andrzej SLUZEK Nanyang Technological University

Session MMP

CIS Interactive Session I & RAM Interactive Session I

MMP.01 A Batch Splitting Job Shop Scheduling Problem with Bounded Batch Sizes under Multiple-resource Constraints using Genetic Algorithm

Haiyan WANG, Yanwei ZHAO, Xinli XU, Wanliang WANG Zhejiang University of Technology

MMP.02 ABIS: A Language of Intelligent Systems

Alecsey POLETYKIN, Mihail BYVÁYKOV, Artur BAYBULATOV Russian Academy of Sciences

MMP.03 Constructing Scalable TTS System based on Corpus Approach Wei ZHANG, *Zhenhua LING, *Lirong DAI

Wei ZHANG, *Zhenhua LING, *Lirong DAI Ocean University of China *University of Science and Technology of China

MMP.04 Study on Measurement System of Underwater Autonomous Robot

Qingmei YANG, *Jianmin SUN, Yanxia LIU
Beijing Union University
*Beijing University of Civil Engineering and Architecture

MMP.05 Finding Multiple Real Roots by Neural Networks based on Complete Discrimination System of Polynomial

Xinli ZHANG, Dayong ZHU, Wang HU University of Electronic Science and Technology of China

MMP.06 An Immune Algorithm based on Danger Model

Chenggong ZHANG, Guisong LIU, Wang HU University of Electronic Science and Technology of China

MMP.07 Path Planning in an Unknown Environment on the Basis of Observations of Occluded Areas

Shuichi UTSUGI, Hisashi SUZUKI Chuo University

MMP.08 Image Space Reconstruction Based Overcomplete ICA Algorithm

Shangming YANG, Min WAN, Hua YAN University of Electronic Science and Technology of China

MMP.09 Function Approximation based on Twin Support Vector Machines

Chengfu YANG, Zhang YI, Lin ZUO University of Electronic Science and Technology of China

MMP.10 A New Algorithm for Extracting Specific Signals with Temporal Structure

Min WAN, Shangming YANG, Hua YAN University of Electronic Science and Technology of China

MMP.11 Fuzzy-GA and Multi-Objective Transportation Optimization

Shurong ZOU, *Hongwei ZHANG, *Kunkun WANG Southwest Jiaotong University *Chengdu University of Information Technology

MMP.12 A Parallel Training Algorithm of Support Vector Machines based on the MTC Architecture

Lei WANG, Huading JIA Southwest University of Finance and Economics

MMP.13 A Note on the Robust Stability of Genetic Regulatory Networks with Time-Varying Delays

Wei FENG, *Wei ZHANG, **Guangxia XU, *Haixia WU Chongqing University
*Chongqing Education College

**Chongqing University of Posts and Telecommunications

MMP.14 An Iterative Modified Kernel for Support Vector Regression

Fengqing HAN, Zhengxia WANG, Ming LEI, Zhixiang ZHOU Chongqing Jiaotong University

MMP.15 Least Squares Support Vector Machine Classifiers using PCNNs

Yongsheng SANG, Haixian ZHANG, Lin ZUO University of Electronic Science and Technology of China

MMP.16 Research on Rotary Dump Health Monitoring Expert System based on Causality Diagram Theory

Quan LIU, Jingsong LI

Wuhan University of Technology

MMP.17 Forecasting Share Price using Wavelet Transform and LS-SVM based on Chaos Theory

Jianguo ZHOU, Tao BAI, Aiguang ZHANG, Jiming TIAN North China Electric Power University, Baoding

MMP.19 An Information Integration Framework based on XML to Support Mechatronics Multi-disciplinary Design

Luvan Bl. Zongxia JIAO

Beijing University of Aeronautics and Astronautics

MMP.20 VT Position Code Communication Technology and its Implementation

Shiying ZHOU, Guihe QIN, Yubo JIN Jilin University

MMP.21 Adaptive Optimal Locomotion of Snake Robot based on CPG-Network using Fuzzy Logic Tuner

Shahir HASANZADEH, Ali AKBARZADEH TOOTOONCHI

Ferdowsi University of Mashhad

MMP.22 Immune Network Algorithm based on Improved APF for On-Line Dynamic Planning

Mingxin YUAN, Sun'an WANG, Jian ZHUANG, Kunpeng LI Xi'an Jiaotong University

MMP.23 Production Control of a Polymerization Plant using a Reduced Set of Control Variables

Vladimir JOVAN, Dejan GRADISAR, Sebastjan ZORZUT Jozef Stefan Institute

MMP.24 Planar Visual Metrology using Partition-based Camera Calibration

Dongtai LIANG, Xuanyin WANG Zhejiang University

MMP.25 Adaptive Bandwidth Mean Shift Object Detection

Xiaopeng CHEN, *Haiyan HUANG, Haibo ZHENG, Chengrong LI Chinese Academy of Sciences *Jiujiang University

MMP.26 Image-based Visual Servoing of a Real Robot using a Quaternion Formulation

Thomas KOENIG, Y DONG, Guilherme N DESOUŽA University of Missouri

MMP.27 Unloading Performance Analysis of Main Generator in Aeronautic AC Power Supply based on Ansoft

Feng GONG, Zhen MA, Jianlei LI, Xianjiang ZHANG Binzhou University

MMP.28 Robust Guaranteed Cost Control for a Class of Two-dimensional Discrete Systems with Shift-Delays

Shuxia YE, Weiqun WANG, Yun ZOU, Juan YAO Nanjing University of Science and Technology

MMP.29 Fuzzy Control of Inverter Pendulum Robot via Perturbed Time-Delay Affine T-S Fuzzy Models

Wen-Jer CHANG, Wei-Han HUANG, Wei CHANG National Taiwan Ocean University

MMP.30 Modeling and Intelligent Control of Vehicle Active Suspension System

Jianmin SUN, *Qingmei YANG Beijing University of Civil Engineering and Architecture *Beijing Union University

MMP.31 Application of the Optimal Input Design in Shaking Table Experimental System

Jianqiu CHEN, Xinzheng ZHANG, *Ping TAN, *Fulin ZHOU University of Guangdong Technology *University of Guangzhou

MMP.32 Architectural Mismatch Detection between Component and Aspect based on Finite Automaton

Yang ZHANG, *Jingjun ZHANG, *Hui LI Hebei University of Science and Technology *Hebei University of Engineering

Session MP1 (Special Session)

Intelligent Control Theory In Aerial Maintenance Engineering II

- MP1.1 Technique of Predictive Function Control of Reference Path based on Fuzzy Inference Tansheng ZHOU, Hengcheng XU, Shengyuan ZHANG The First Aeronautical Institute of Air Force
- MP1.2 Intelligent Control for Aerodynamics Research Test Jianming JIA, Yaohui CHENG, Huiming LIU The First Aeronautical Institute of Air Force
- MP1.3 The Over-Loading Protecting Research based-on the Fuzzy Control in Aero Power Supply System Hengcheng XU, Pu CHENG, Wenjie YANG The First Aeronautical Institute of Air Force
- MP1.4 Design of SDLC Synchronous Serial Communication based on Intel 8274 Qi WANG, Jianwei FAN, Wei CUI, Duwei YANG The First Aeronautical Institute of Air Force
- MP1.5 Research on Application of Artificial Neural Network in the Network Loss Calculation of Power System Hang XU, Huiming LIU, Jie LI

 The First Aeronautical Institute of Air Force
- MP1.6 Information Unloading and Processing Synthesis System for Airborne Flight Parameter Kun ZHANG, Xianlin ZENG, Kai LIU, Xiaolei LI

 The First Aeronautical Institute of Air Force

Session MP4

Computational Intelligence I

MP4.1	SVM Parameters Tuning with Quantum Particles Swarm Optimization
	Zhiyong LUO, *Wenfeng ZHANG, **Yuxia LI, Min XIANG
	Chongging University of Posts and Telecommunications
	*Northwestern Polytechnical University
	**University of Electronic Science and Technology of China

- MP4.2 An Improved Particle Swarm Optimization Algorithm based on Velocity Updating Jinglei GUO, Zhijian WU, Zhejun WU Wuhan University
- MP4.3 Experience Based Learning in Policy Control of Multiagent System Ariuna DAMBA, Shigeyoshi WATANABE University of Electro-Communications
- MP4.4 Knowledge Evolutionary Algorithms based on Granular Computing Yongqin TAO, Duwu CUI, Taishan YAN Xi'an University of Technology
- MP4.5 Genetic Algorithm for Power Load Dispatch Chao-Lung CHIANG Nan-Kai Institute of Technology
- MP4.6 The Integrated Mehodology of Rough Set Theory and Fuzzy SVM for Customer Classification Jianguo ZHOU, Tao BAI, Aiguang ZHANG, Jiming TIAN North China Electric Power University, Baoding

Session MP5

Pattern Recognition

MP5.1	Detection of Seizures in EEG Signal using Weighted Locally Linear Embedding and SVM Classifier
	Yaozhang PAN, Shuzhi Sam GE, Abdullah Al MAMUN, *Feng Ru TANG
	National University of Singapore
	*National Neuroscience Institute

MP5.2 Learning the Boundary of One-Class-Classifier Globally and Locally Aimin FENG, Bin CHEN, Xuejun LIU

Nanjing University of Aeronautics and Astronautics

MP5.3 Face Recognition Method based on Within-class Clustering SVM Yan WU, Xiao YAO, Ying XIA Tongji University

MP5.4 Gabor-based Discriminant Locality Preserving Projections for Face Recognition Lei ZHU, Lihua LI Hangzhou Dianzi University

MP5.5 Formation of Standard Tibetan Syllables and Comparison as well as Analysis of the Statistical Results Weilan WANG, La DUO Northwest University for Nationalities

MP5.6 Making Discriminative Common Vectors Applicable to Face Recognition with One Training Image per Person
Lei ZHU, *Yongying JIANG, Lihua LI

Hangzhou Dianzi University
*Wenzhou University

Session MP6

Data Mining and Management

MP6.1 Similarity Search based on Random Projection for High Frequency Time Series Wei WU, Jingtao HU

Chinese Academy of Sciences

MP6.2 Applying Multiple Time Series Data Mining to Large-Scale Network Traffic Analysis

Weisong HE, Guangmin HU, Xingmiao YAO, Guangyuan KAN, Hong WANG, *Hongmei XIANG University of Electronic Science and Technology of China *Chongqing College of Electronic Engineering

MP6.3 On the Application of Data Mining Technique and Genetic Algorithm to an Automatic Course Scheduling System

Yao Te WANG, *Yu Hsin CHENG, *Ting Cheng CHANG, *S M JEN Providence University *Ling Tung University

MP6.4 The Research of Association Rules Mining Algorithm based on Binary

Gang FANG, Zukuan WEI, *Qian YIN University of Electronic Science and Technology of China *Beijing Normal University

MP6.5 Text Mining for Chat Message Analysis

Siu Cheung HUI, *Yulan HE, Haichao DONG Nanyang Technological University *The University of Reading

MP6.6 A Novel Model for Stock Portfolio based on ARX, RS and a New Grey Relational Grade Theories

Kuang-Yu HUANG, Chuen-Jiuan JANE Ling Tung University

Session MPP

CIS Interactive Session II & RAM Interactive Session II

MPP.01 High Accuracy Measurement Technology of CCD and its Industrial Application Pengfei HAO, Xiaodong ZHANG, Yuanzong LI, Lihong ZHENG

Taiyuan University of Technology

MPP.02 Design of a DSP-based CMOS Imaging System for Embedded Computer Vision

Fen XU, Jianjun ZENG, Yunlong ZHANG North China University of Technology

MPP.03 3D Object Recognition using Multiple Features and Neural Network

Sheng XU, Qicong PENG

University of Electronic Science and Technology of China

MPP.04 Convergence Analysis of Background Neural Networks with Two Subnetworks

Fang XU, Lei ZHANG, Hong QU

University of Electronic Science and Technology of China

MPP.05 Group Selection by using Lotka-Volterra Recurrent Neural Networks

Stones Lei ZHANG, Zhang YI, Peng Ann HENG

University of Electronic Science and Technology of China

MPP.06 ECOC-Based Training of Neural Networks for Face Recognition

Nima HATAMI, *Reza EBRAHIMPOUR, **Reza GHADERI

Shahed University

*Shahid Rajaee University

**Mazandaran University

MPP.07 Application of Intelligent PID Control for Robot

Lixin MA, Minxuan ČHEN, Daonian SHI, Xiaoqin WANG University of Shanghai for Science and Technology

MPP.08 The Scale Self-Adjusting Multi-Resolution Network Traffic Anomaly Detection

Xingjian QI, Guangmin HU, Dan YANG, Zonglin LI

University of Electronic Science and Technology of China

MPP.09 A Chaotic Encryption System using PCA Neural Networks

Xiao FEI, Guisong LIU, Bochuan ZHENG

University of Electronic Science and Technology of China

MPP.10 A Novel k-Times Short Digital Signature Scheme using Pairing

Jianhong ZHANG, *Jianjun XIE

North China University of Technology

*Hebei Normal University

MPP.11 A New Image Encryption Arithmetic based on a Three-dimensional Map

Feng HUANG, Chao WANG, Shijun LI

Hunan Institute of Engineering

MPP.12 An Automatic Co-stimulation Algorithm for LAN Artificial Immune Systems

Tieshan ZHAO, Zengzhi LI, *Wanbiao MAO, *Jiajun ZHU

Xi'an Jiaotong University

*Xichang Satellite Launch Center

MPP.13 Extension of Statistical Process Control (SPC) Methodology to Dynamic Systems Controlled via Output Feedback

Raphael LINKER

Technion - Israel Institute of Technology

MPP.14 Improve Go Al based on BP-Neural Network

Jianming LIAO, Difei ZOU, Rui LUO

University of Electronic Science and Technology of China

MPP.15 A New Palmprint Identification Algorithm based on Gabor Filter and Moment Invariant

Shuang WANG, Yong XU

Harbin Institute of Technology, Shenzhen

MPP.16 An Improved Grey Self-Organizing Map Based DOS Detection

Rui CHEN, Jinyu WEI, Hefeng YU Tianjin University of Technology

MPP.17 Apply Anomaly Grey Forecasting Algorithm to Cyberspace Situation Prediction

Weisong HE, Guangmin HU, *Hongmei XIANG

University of Electronic Science and Technology of China

*Chongqing College of Electronic Engineering

MPP.18 Review on the Application of Artificial Intelligence in Antivirus Detection System

Xiaobin WANG, Guangyuan YANG, Yichao LI, Dan LIU University of Electronic Science and Technology of China

MPP.19 Fuzzy-SMC-PI Flux and Speed Control for Induction Motors

Haider A F MOHAMED, En Lai LAU, Soo Siang YANG, Mahmoud MOGHAVVEMI University of Malaya

MPP.20 Stochastic State Estimation and Control for Stochastic Descriptor Systems

Zhiwei GAO, Xiaoyan SHI *Tianjin University*

MPP.21 Transient Performance Simulation and Analysis of AC Exciter in Aeronautic AC Power Supply based on Maxwell 2D

Jianlei LI, Yanyan CAO, Zhen MA, Xianjiang ZHANG Binzhou University

MPP.22 The Ground-based Validation Technology of Teleoperation for Space Robot

Xueqian WANG, *Bin LIANG, *Cheng LI, *Wenfu XU Harbin Institute of Technology, Shenzhen *Harbin Institute of Technology

MPP.23 Efficient Speaker Recognition based on Multi-class Twin Support Vector Machines and GMMs

Hanhan CONG, Chengfu YANG, Xiaorong PU University of Electronic Science and Technology of China

MPP.24 Apparatus for Ensuring Seat Belt Usage and Checking Blood Alcohol Concentration

Smriti BHATNAGAR, Richa GUPTA, Kapil Kumar SINGLA Jaypee Institute of Information Technology

MPP.25 Decreasing Vibration of Vehicle using Combined Suspension System

Jianmin SÜN, *Qingmei YANG Beijing University of Civil Engineering and Architecture *Beijing Union University

MPP.26 A Robust Motion Detection Algorithm for Complex Background using Statistical Models

Zhen YU, Yanping CHEN Xiamen University

MPP.27 Study on Stability of Electric Power Steering System

Li ZUO, *Wenjiang WU Beijing Institute of Petrochemical Technology *Shijiazhuang Railway Institute

MPP.28 Analysis and Research on Mismatch in Tailored Blank Laser Welding

Liming XIN, Zhigang XU, Mingyang ZHAO, Tianxu ZHU Chinese Academy of Sciences

MPP.29 Extension of the Second Paden-Kahan Sub-problem and its' Application in the Inverse Kinematics of a Manipulator

Yuesheng TAN, *Aiping XIAO Beijing Forest University *Chinese Academy of Sciences

MPP.30 Three Modulation Modes of SVM for AC-AC Matrix Converter

Yougui GUO, Jianlin ZHU, Cheng DENG Xiangtan University

MPP.31 Study on Ultimate Performance of Light-duty Electro-Hydraulic Torque-Load Simulator

Yaoxing SHANG, Shuai WU, Zongxia JIAO, Xiaodong WANG Beijing University of Aeronautics and Astronautics

MPP.32 Backlash Detection in CNC Machines based on Experimental Vibration Analysis

S Ali A MOOSAVIAN, *Ebrahim MOHAMMADI ASL K. N. Toosi University of Technology *Mapna Turbine Manufacturing Co.

Session TA4

Soft Computing, Fuzzy Systems II

- TA4.1 Intelligent Control of Thermal Comfort in Automobile Yadollah FARZANEH, Ali AKBARZADEH TOOTOONCHI Ferdowsi University of Mashhad
- TA4.2 Resilient Robust H_{∞} Fuzzy Controller Design for a Class of Nonlinear Systems with Time-Varying Delays in States

 Junsheng REN

 Dalian Maritime University
- TA4.3 A Systematic and Simple Approach for Designing Takagi-Sugeno Fuzzy Controller with Reduced Data Yadollah FARZANEH, Ali AKBARZADEH TOOTOONCHI Ferdowsi University of Mashhad
- TA4.4 Online Multivariable Identification of a Nonlinear Distillation Column using an Adaptive Takagi-Sugeno Fuzzy Model
 Karim SALAHSHOOR, *Somayeh GHARIBSHAIYAN

 Potrology University of Tachaglery

Karim SALAHSHOOR, *Somayeh GHARIBSHAIYAN Petroleum University of Technology *Islamic Azad University

- TA4.5 Study on Fuzzy-Extension Control System for Marine Steering Minghui WANG, Yongquan YU, Yimin YANG, Fei WANG Guangdong University of Technology
- TA4.6 An LMI Approach to Robust Controller Designs of Takagi-Sugeno fuzzy Systems with Parametric Uncertainties
 Li QI, Junyou YANG
 Shenyang University of Technology

Session TA5

Computer Vision II

TA5.1	Segmentation of Fingerprint Images using the Gradient Vector Field
	Jin QI, Mei XIE
	University of Electronic Science and Technology of China

TA5.2 Research of Cues Selection in Pedestrian Detector based on Adaboost Chunhui ZHAO, Yan LIANG, Yongmei CHENG, Zhaoxia LU Northwestern Polytechnical University

TA5.3 Color Pattern Diffusion: Verification for Wide Baseline Matching Xinhai LIU, Kangling FANG, Wangming XU, Jin WU Wuhan University of Science and Technology

TA5.4 Webcam Calibrations for Ground Texture Visual Servo Takeshi MATSUMOTO, David POWERS, Nasser ASGARI Flinders University

TA5.5 Designing non Constant Resolution Vision Sensors via Photosites Rearrangement Sio-Hoi IENG University Pierre and Marie Curie

TA5.6 Study on Change Detection for Multi-temporal Polarimetric SAR Images Juntuan ZHANG, *Shiqi HUANG, **Zhenfu LI, Jun LIN Jilin University *Xi'an Research Institute of Hi-Tech **Xi'an Communication Institute

Session TA6

Decision Support Systems I

- TA6.1 Research on Prediction Technique of Network Situation Awareness
 Juan WANG, Zhiguang QIN, Li YE
 University of Electronic Science and Technology of China
- TA6.2 A Maximum Entropy Model for Product Feature Extraction in Online Customer Reviews Gamgarn SOMPRASERTSRI, Pattarachai LALITROJWONG King Mongkut's Institute of Technology Ladkrabang
- TA6.3 A Particle Filter using SVD Based Samling Kalman Filter to Obtain the Proposal Distribution Bin LIU, Xiaochuan MA, Chaohuan HOU Chinese Academy of Sciences
- TA6.4 3D Topological Relations for 3D Spatial Analysis
 Mochammad ZULIANSYAH, Suhono HARSO SUPANGKAT, Yoga PRIYANA, Carmadi MACHBUB
 Bandung Institute of Technology
- TA6.5 A Model-free Adaptive Control of Welding Pool Dynamics during Arc Welding Fenglin LV, Jifeng WANG, Chongjian FAN, Shanben CHEN Shanghai Jiaotong University
- TA6.6 Sliding Mode Control based on Delay Estimation Online for Networked Control System with Model Uncertainties and Stochastic Less Delay Chunlai YU, Hualong XU, Shiqi HUANG Xi'an Research Institute of Hi-Tech

Session TAP

CIS Interactive Session III & RAM Interactive Session III

TAP.01 A Novel Algorithm of Constructing LDPC Codes with Graph Theory

Yan CUI, Xinhui SI, Yanan SHEN

University of Science and Technology Beijing

TAP.02 Using Hopfield Neural Networks to Solve DEA Problems

Shing-Cheng HU, Yun-Kung CHUNG, Yun-Shiow CHEN Yuan Ze University

TAP.03 Hospital Linens Inventory Control Re-engineering based on RFID

Yuanyuan JIAO, Yiwen ZHEN, *Jianxin, Roger JIAO

Nankai University

*Nanyang Technological University

TAP.04 Evolution-generated Communications in Digital Business Ecosystem

Juan WANG, *Philippe de WILDE

Shenzhen University

*Heriot-Watt University

TAP.05 Reasoning of Fuzzy Causality Diagram with Interval Probability

Xinyuan LIANG, *Qingxi SHI

Chonaaina University

*Chongqing Technology and Business University

TAP.06 Analytical Design of Decoupling Control for Variable-Air-Volume Air-conditioning System

Jiangjiang WANG, Chunfa ZHANG, Youyin JING

North China Electric Power University, Baoding

TAP.07 Web-based Remote Human Pulse Monitoring System with Intelligent Data Analysis for Home

Chih-Ming CHEN, *Chin-Ming HONG, *Chia-Meng HUANG, **Tai-Hung LEE

National Chengchi University

*National Taiwan Normal University

**National Hualien University of Education

TAP.08 Mining Interactive Social Network for Recommending Appropriate Learning Partners in a Web-based Cooperative Learning Environment

Chih-Ming CHEN, *Chin-Ming HONG, *Chia-Cheng CHANG National Chengchi University

*National Taiwan Normal University

TAP.09 Design of the Intelligent Heat Meter based on MSP430FW425

Bingjiang GONG, Yan LIU

Hebei University of Engineering

TAP.10 A Adaptive Grey Fuzzy Prediction Controller Design based on the Improving Residual Error Model

Rongcheng LIU, Wenzhan DAI, Sen XU

Zhejiang Sci-Tech University

TAP.11 MRPlanner: An Agent-Based MMRP Constraint Programming System

Junwei YANG, *Xiaojing HUO, Zhongxiang HU, Xiaojun SHI

Academy of Armored Force Engineering

*Hebei Agricultural University

TAP.12 The Design of Softman-Based Digital Copyright Protection System in Internet

Fucheng YOU

Beijing Institute of Graphic Communication

TAP.13 A Web Services Based Wide-area Corporation Multi-agent System Platform for Power System

Xiaoyang TONG

Southwest Jiaotong University

TAP.14 Logical Control for a Class of Nonlinear Systems

Wenhao YANG, Wenzhan DAI

Zhejiang Sci-Tech University

TAP.15 A Coloured Petri Net Model for Composite Behaviors in Multi-Agent System

Jindian SU, Heging GUO, *Shanshan YU South China University of Technology *Sun Yat-sen University

TAP.16 Automatic Text Classification based on Knowledge Tree

Lu PENG, Yibo GAO, Yiping YANG Chinese Academy of Sciences

TAP.17 An Improved EPC Gen-2 Slot Random Anti-collision Algorithm based on Active Strategy

Jinghe TIAN, *Yushun FAN, Yunlong ZHU, Ruizi ZHANG

Chinese Academy of Sciences

*Tsinghua University

TAP.19 A Vision Based Inspection Method for Wood Veneer Classification

Mengxin LI, Chengdong WU Northeastern University

TAP.20 Machinery Fault Diagnosis based on Improved Algorithm of Support Vector Domain Description and

Qiang WU, Chuanying JIA, *Wenying CHEN, **Xiaoshuai DING

Dalian Maritime University

*Tsinghua University

**Tibet Nationalities Institute

TAP.21 Research on Agile Infrastructure for Collaborative Manufacturing and Agile Supply Chain

Jinlong SU, *Zhonghui OUYANG, *Yimin CHEN

Shanghai University

*Quanzhou Normal University

TAP.22 Multiple Mobile Robots Map Building based on DSmT

Peng LI, Xinhan HUANG, Min WANG, Xiangjin ZENG Huazhong University of Science and Technology

TAP.23 Consensus-based Strategy for Parallel Motion of Multiple Mobile Robots

Guansheng XING, Jianxun ZHANG, Hao JU Nankai University

TAP.24 Vision-based Fuzzy Coordination Control for Multiple Robots

Li YANG, Zhigiang CAO, Min TAN, *Guoping LIU Chinese Academy of Sciences *University of Glamorgan

TAP.25 Formation Control for Multi-Robot Teams using a Data Glove

Nuttapon BOONPINON, Attawith SUDSANG Chulalongkorn University

TAP.26 Affine Transformation of Multiple Mobile Robot Formation by Generalized Ant Colony Optimization

Xuebo CHEN, Ying ZHANG

Liaoning University of Science and Technology

TAP.27 Research on the Nonlinear Governor of Diesel Engine with Variable Structure Control Theory

Xiaobing MAO, Kaisheng LU Wuhan University of Technology

TAP.28 Cooperative Coverage by Multiple Robots with Contact Sensors

Zongbo HAO, Nan SANG, Hang LEI

University of Electronic Science and Technology of China

TAP.29 Multi-agent Planning for Ship Collision Avoidance

Yuhong LIU, *Chunsheng YANG, **Xuanmin DU

Shanghai Maritime University Backlash Detection in CNC Machines based on Experimental Vibration Analysis

*National Research Council

**Shanghai Marine Electronic Equipment Research Institute

TAP.30 Modeling for a Dual Three-Phase Induction Motor based on a Winding Transformation

Bulai WANG, Zhesong GONG, Wei GU, Jianxin CHU, Yi GUO Shanghai Maritime University

TAP.31 Dissimilar Redundancy Measurement of Swashplate Angle of Variable Pump based on the Exact Linearization Model of EHCA

Yan LANG, Yunhua LI

Beijing University of Aeronautics and Astronautics

TAP.32 Fault Diagnosis for Wireless Sensor Network's Node based on Hamming Neural Network and Rough Set
Lin LEI, Houjun WANG, Chuanlong DAI
University of Electronic Science and Technology of China

Session TM4

Neural Networks II

TM4.1 A Fast Algorithm for Solving Large Scale Nonlinear Optimization Problems using RNN

Xiaoliang XU, *Huajin TANG, **Xiaoxin SHI

Hangzhou Dianzi University

*Institute for Infocomm Research

**Sichuan University

TM4.2 Chinese Word Segmentation based on the Improved Particle Swarm Optimization Neural Networks

Jia HE, *Lin CHEN

University of Electronic Science and Technology of China

*Chengdu University of Information Technology

TM4.3 Representations of Continuous Attractors of Discrete-Time Cellular Neural Networks

Jiali YU, Zhang YI, Lei ZHANG

University of Electronic Science and Technology of China

TM4.4 Bifurcation of a Class of Discrete-time Neural Networks

Xiaoliang ZHOU, Xueliang GAO

Sichuan University

TM4.5 A Maneuvering Target Detecting Method based on Lifting Wavelet Transform Algorithm

Jianfang SHI, Le QI, Chengwei HE Taiyuan University of Technology

TM4.6 Diesel Engine Common Rail Pressure Control based on Neuron Adaptive PID

Shijie AN, Limin SHAO

Naval University of Engineering

Session TM5

Image Processing II

TM5.1	The Research of the Improved 3D L-System and its Application in Plant Modeling
	Ke GUAN
	Chinese Academy of Sciences

- TM5.2 A New Image Thresholding Method based on Isoperimetric Ratios Zuoyong LI, Chuancai LIU, Yong CHENG Nanjing University of Science and Technology
- TM5.3 Skin-Color based Particle Filtering for Human Face Tracking Tianrui WU, Yuexian ZOU, Wei WANG Peking University
- TM5.4 A Hybrid Face Recognition Algorithm based on WT, NMFs and SVM Pei JIANG, Yongjie LI University of Electronic Science and Technology of China
- TM5.5 A Survey of the Image Copy Detection Yuehua WAN, Qiaoling YUAN, Shiming JI, Limin HE, Yaliang WANG Zhejiang University of Technology
- TM5.6 Multi-object Segmentation based on Pulse Coupled Neural Network Xiaofang LIU, Dansong CHENG, Xianglong TANG, Jiafeng LIU Harbin Institute of Technology

Session TM6

Intelligent Transportation System

TM6.1 Research of the Active Control for High-Speed Train Pantograph

Shudong WANG, *Jingbo GUO, *Guosheng GAO Beijing Jiaotong University *Shijiazhuang Railway Institute

TM6.2 Land Vehicle Navigation using Odometry/INS/Vision Integrated System

Wei WANG, Dan WANG

Beijing University of Aeronautics and Astronautics

TM6.3 Short-term Traffic Flow Prediction based on Embedding Phase-space and Blind Signal Separation

Hong XIE, Zhonghua LIU Shanghai Maritime University

TM6.4 Adaptive and Coordinated Traffic Signal Control based on Q-Learning and MULTIBAND Model

Shoufeng LU, Ximin LIU, *Shiqiang DAI Changsha University of Science and Technology

*Shanghai University

TM6.5 An Optimization Approach for Intersection Signal Timing based on Multi-Objective Particle Swarm

Optimization

Hao PANG, Feng CHEN

University of Science and Technology of China

Limitations of the Narrow Fuzzy-Control and the Concept of Generalized Fuzzy-Control

Zhongxu HAN, Huanpao HUANG, *Dan LI, *Chuangxin ZHOU

China Electric Power Research Institute

*Beijing Guodian Zhishen Control Technology Ltd

Session TMP

CIS Interactive Session IV & RAM Interactive Session IV

TMP.01 Topological Optimization Method and its Application Research in the Rear Platen' 3-D Structure Design Jing LI, Ganwei CAI, *Yonghui ZHANG

Guangxi University

*Guangzhou Navigation Mark Office

TMP.02 Solving TSP using Lotka-Volterra Neural Networks without Self-Excitatory

Manli LI, Jiali YU, Stones Lei ZHANG, Hong QU

University of Electronic Science and Technology of China

TMP.03 Multivariable Generalized Predictive Scheme for Gas Turbine Control in Combined Cycle Power Plant

L X NIU, Xiangjie LIU

North China Electric Power University, Beijing

TMP.04 UAV Route Planning using Multiobjective Ant Colony System

Zhenhua WANG, Weiguo ZHANG, Jingping SHI, Ying HAN Northwestern Polytechnical University

TMP.05 Optimizing Voice over Internet Protocol (VoIP) Networks based-on Extended E-model

Yoanes BANDUNG, Carmadi MACHBUB, Armein Z R LANGI, Suhono H SUPANGKAT Bandung Institute of Technology

TMP.06 A Simulation of Ant Formation and Foraging using Fuzzy Logic and Reinforcement Learning

Sepideh AFSHAR, Mohammad J MAHJOOB

University of Tehran

TMP.07 The Discrete Fuzzy Numbers on a Fixed Set with Finite Support Sets

Guixiang WANG, Chenglin WEN, *Qing ZHANG, *Xianjun CUI

Hangzhou Dianzi University

*Handan College

TMP.08 LMI-based Criterion for the Robust Guaranteed Cost Control of 2-D Systems Described by the Roesser Model

Jiangtao DAI, Weigun WANG

Nanjing University of Science and Technology

TMP.09 An Example of Balanced Truncation Method and its Surprising Time Domain Performance

Sheng Guo WANG, *Ben WANG University of North Carolina -- Charlotte

*IBM USA

TMP.10 Study on the Structure and Algorithm of a Feedback Fuzzy Controller

Shengli QU, Bo QIAN, Xinzhi ZHU, Wenlong XU

Xidian University

TMP.11 An Algorithm of Maneuvering Target Tracking based on Interacting Multiple Models and Fuzzy Neural

Jianfang SHI, Le QI, Yue HUANG

Taiyuan University of Technology

TMP.12 A Scene Recognition Algorithm based on Covariance Descriptor

Yinghui GE. *Jianiun YU

Ningbo University

*Shanghai Jiaotong University

TMP.13 A Novel Unsupervised Feature Extraction based on Image Matrix

Yongzhi LI, *Zuoyong LI, *Songsong WU, *Jingyu YANG, Linfeng GU

Nanjing Forestry University

*Nanjing University of Science and Technology

TMP.14 An Improved Adaptive CUSUM Control Chart for Monitoring Process Mean

Jun DU, *Zhang WU, *Jianxin, Roger JIAO

Tianjin University

*Nanyang Technological University

TMP.15 Multi-agent Test Environment for BPEL-based Web Service Composition

Wenli DONG

Chinese Academy of Sciences

TMP.16 A New Strip Temperature Control Method for the Heating Section of Continuous Annealing Line

Ming ZHOU, Datai YU, *Jiangang ZHOU University of Science and Technology Beijing *Baoshan Iron & Steel Co.,Ltd.

TMP.17 Coverage Control in Wireless Sensor Networks based on Improved Ant Colony Algorithm

Lin LEI, Houjun WANG, Zhao XU

University of Electronic Science and Technology of China

TMP.18 New Method for Approximating Vague Sets to Fuzzy Sets based on Voting Model

Liu JIAN, Shunxiang WU, Zhizhan LIU, Yongjian ZHANG Xiamen University

TMP.19 Variable Structure Control for Parameter Uncertain Stochastic Systems with Time-Varying Delay

Hailong XING, Wenjie ZHAO, *Donghai LI North China Electric Power University, Baoding

*Tsinghua University

TMP.20 Application on Unloading Transient Electromagnetic Computation of Brushless AC Exciter with Magnet

Zhen MA, Jianlei LI, Feng GONG, Xianjiang ZHANG Binzhou University

TMP.21 Stabilization and Path Following of a Spherical Robot

Daliang LIU, Hanxv SUN, Qingxuan JIA Beijing University of Posts and Telecommunications

TMP.22 Formation Control of Multiple Mobile Robots based on Orientation Bias

Xuebo CHEN, Wangbao XU Liaoning University of Science and Technology

TMP.23 Automatic Shift with 4-parameter of Construction Vehicle based on Neural Network Model

Dingxuan ZHAO, Gongjie CUI, Yingjie LI, Jie GONG, Shubo LIU, Yuankun ZHANG Jilin University

TMP.24 A Method of Remote Fault Diagnosis based on Analytical Hierarchy Process

Xiaobin WANG, Wenyu CHEN, Shixin SUN, *Jingbo LIU University of Electronic Science and Technology of China *Chongqing Three Gorges University

TMP.25 Investigation on Key Techniques of Measurement Device of Position and Attitude Applied in Large-Scale Pushing Bridge Construction Machinery

Qi ZHENG, Chao LI, Yunhua LI, Mei SHUAI Beijing University of Aeronautics and Astronautics

TMP.26 The Issue of Robot Education in China's Basic Education and its Strategies

Guomin ZHANG, Jianping ZHANG Zhejiang Normal University

TMP.27 Fast Calibration for Robot Welding System with Laser Vision

Suyi LIU, *Guorong WANG
Nanchang University
*South China University of Technical

*South China University of Technology

TMP.28 A Novel 3-DOF HIP Exoskeleton for Kinematically Establishing Animal Model of Avascular Necrosis of the Femoral Head

Yu ZHANG, Jiafan ZHANG, Yiming DONG, Canjun YANG, Ying CHEN, Jianhua LI, Tao WU Zhejiang University

TMP.29 Analysis of Contact Forces for Forging Manipulator Grippers

Qunming LI, Dan GAO, Hua DENG Central South University

TMP.30 Study on a Pipe Welding Robot based on Laser Vision Sensing

Jiqiang HUANG, Junfen HUANG, Yong ZOU, Lipei JIANG, Long XUE, Minshuang HUANG Beijing Institute of Petrochemical Technology

TMP.31 Delay-Dependent Robust Reliable Guaranteed Cost Control for Nonlinear Systems with Time-Varying State Delays

Nan XIE, Ping CHEN, Lei ZHAO, Bin XIA Shandong University of Technology

TMP.32 Robotic Machining: A Force-Control-Based Fast Programming Method Jingguo GE, Fusheng TAN, Hui ZHANG ABB Corporate Research China

Session TP4

Decision Support Systems II

TP4.1 A Novel Ring Signature Scheme with Multi-designated Verifiers

Jianhong ZHANG, *Jianjun XIE North China University of Technology *Hebei Normal University

TP4.2 Validating Multiattribute Decision Making Methods for Supporting Group Decisions

Chung-Hsing YEH, *Yu-Hern CHANG Monash University *National Cheng Kung University

TP4.3

A Novel Contract Net Negotiation Model based on Trust Mechanism Zude ZHOU, Songlin CHENG, Quan LIU Wuhan University of Technology

The Discrete Surface Kernel: Framework and Applications Naoufel WERGHI TP4.4

University of Dubai

Session TP5

Neuro-Fuzzy Systems

- TP5.1 Adaptive Fuzzy Multivariable Controller Design based on the Lyapunov Scheme Sajjad POURMOHAMMAD, Ali Reza YAZDIZADEH

 Power and Water University of Technology
- TP5.2 Delay-Dependent Guaranteed Cost Control for T-S Fuzzy Descriptor Systems with Time Delays Weihua TIAN
 Shenyang Institute of Engineering
- TP5.3 Intelligent Fault Diagnosis of Distillation Column System based on PCA and Multiple ANFIS Peyman AKHLAGHI, Amir Reza KASHANIPOUR, *Karim SALAHSHOOR Islamic Azad University

 *Petroleum University of Technology
- TP5.4 Precise Determination of Non-additive Measures
 Hai-Feng GUO, Wen ZHENG, *Song CI
 University of Nebraska at Omaha
 *University of Nebraska at Lincoln
- TP5.5 Distributed Control on a Model of Mars Rover Spirit Rerngwut CHOOMUANG Sripatum University

Session TP6

Expert and Knowledge Base Systems

TP6.1 Knowledge Reduction of Dominance-based Fuzzy Rough Set in Fuzzy Decision System Jun XIE, Yuqing SONG, *Xibei YANG, *Huaijiang SUN, *Jingyu YANG Jiangsu University

*Nanjing University of Science and Technology

TP6.2 An Internet Robot Tele-operating System Quanyu WANG, Haifang CAO, Xin LIU Beijing Institute of Technology

TP6.3 Implementing an XML Based Unified Knowledge Manipulation Languages for SOAR Cognitive Architecture

Hamed KHANDAN, *Caro LUCAS Tehran University of Medical Sciences *Tehran University

TP6.4 Grid Resource Scheduling based on Fuzzy Similarity Measures Bin LU, Juan CHEN North China Electric Power University, Baoding

TP6.5 Adaptive Control of an Aerial Robot using Lyapunov Design Payam ZARAFSHAN, S Ali A MOOSAVIAN, Mohsen BAHRAMI K. N. Toosi University of Technology

Session WA4

Neural Networks III

- WA4.1 Study on Wood Defect Detection Based on Artificial Neural Network Dawei QI, Peng ZHANG, Lei YU

 Northeast Forestry University
- WA4.2 Global Asymptotic Stability of Stochastic Neural Networks with Time-Varying Delays Zhengxia WANG, Dacheng WANG, *Xinyuan LIANG, **Haixia WU Chongqing Jiaotong University

 *Chongqing University

 **Chongqing Education College
- WA4.3 Research on the Fouling Prediction of Heat Exchanger based on Wavelet Neural Network Lingfang SUN, Haidi CAI, Yingying ZHANG, Shanrang YANG, *Yukun QIN Northeast Dianli University

 *Harbin Institute of Technology
- WA4.4 Fault Diagnosis of Oil Pump based on High Speed and Precise Genetic Algorithm Neural Network Meijuan GAO, Jingwen TIAN, Liting CAO, *Jin XU Beijing Union University
 *Beijing University of Chemical Technology
- WA4.5 A New Elman Neural Network and its Dynamic Properties Yuanchu CHENG, Weimin QI, Jie ZHAO Wuhan University
- WA4.6 The Choice of Welding Parameters and Prediction of Weld Seam Dimensions for Welding Rapid Prototyping
 Jianning XU, Hua ZHANG, Guangyun ZHANG, Yulong LI, Ronghua HU
 Nanchang University

Session WA5

Image Processing III

WA5.1 Real-time Tissue Deformation and Image Rendering for Computer Simulation

Qian YIN, *Zhiyong YUAN, **Zukuan WEI, Xin ZHENG

Beijing Normal University
*Wuhan University

**University of Electronic Science and Technology of China

WA5.2 What Statistics is PSNR Related using JPEG2000

Zhaohui CUI, Jingliang FU, Jiwei LIU, Ang LI University of Science and Technology Beijing

WA5.3 Omnidirectional Structure Element of Mathematical Morphology Applied to Wood Computed Tomography Testing

Meiheng ZHANG, *Dawei QI, *Lei YU

Mudanjiang Teachers College

*Northeast Forestry University

WA5.4 Automatic Image De-Weathering using Physical Model and Maximum Entropy

Xin WANG, Zhenmin TANG

Nanjing University of Science and Technology

WA5.5 Contour Detection based on the Property of Orientation Selective Inhibition of Nonclassical Receptive

Field

Li LONG, Yongjie LI

University of Electronic Science and Technology of China

WA5.6 Film Line Scratch Detection using Neural Network and Morphological Filter

Kyung-Tai KIM, Eun-Yi KIM

Konkuk University

Session WA6

Computational Intelligence II

- WA6.1 A Novel Scheme for Image Encryption based on Piecewise Linear Chaotic Map Jun PENG, Shangzhu JIN, *Yongguo LIU, Zhiming YANG, Mingying YOU, Yangjun PEI Chongqing University of Science and Technology *University of Electronic Science and Technology of China
- WA6.2 Spam Image Discrimination using Support Vector Machine based on Higher-Order Local Autocorrelation Feature Extraction
 Hongrong CHENG, Zhiguang QIN, Qiao LIU, Mingcheng WAN
 University of Electronic Science and Technology of China
- WA6.3 A Polynomial-Based Key Predistribution Scheme for Wireless Sensor Networks using Matrix Decomposition
 Hong ZHENG, Hangyang DAI
 University of Electronic Science and Technology of China
- WA6.4 Propagation Modeling of Passive Worms in P2P Networks
 Chaosheng FENG, Zhiguang QIN, *Laurence CUTHBET, *Laurissa TOKARCHUK
 University of Electronic Science and Technology of China
 *University of London
- WA6.5 Dataflow Analysis for Known Vulnerability Prevention System Lifang QIN, Yichao LI, Cao YUE University of Electronic Science and Technology of China
- WA6.6 Research on Fuzzy Guidance Law based on Self-adaptive Genetic Annealing Algorithm Jinyong YU, Ruchuan ZHANG, Hongchao ZHAO Naval Aeronautical Engineering Institute

Session WAP

CIS Interactive Session V & RAM Interactive Session V

WAP.01 A Feature Extraction Method based on Combined Wavelets Filter in Speech Recognition

Xueying ZHANG, Ying SUN, *Wenjun HOU

Taiyuan University of Technology

*Beijing University of Posts and Telecommunications

WAP.02 Face Recognition by Fusing Binary Edge Feature and Second-order Mutual Information

Jiatao SONG, Beijing CHEN, Wei WANG, Xiaobo REN

Ningbo University of Technology

WAP.03 A Robust Algorithm for Fingerprint Singular Point Detection and Image Reference Direction

Determination based on the Analysis of Curvature Map

Jin QI, Mei XIE

University of Electronic Science and Technology of China

WAP.04 Modeling Concept Drift from the Perspective of Classifiers Bai SU, Yidong SHEN, *Wei XU

Chinese Academy of Sciences

*NEC Laboratories America, Inc.

WAP.05 Approximate Frequent Itemsets Compression using Dynamic Clustering Method

Hua YAN, Yongsheng SANG

University of Electronic Science and Technology of China

WAP.06 Mining Atypical Groups for a Target Quantitative Attribute

Sylvie GUILLAUME, Florian GUILLOCHON

Blaise Pascal University

WAP.07 3D Spatial Models for Geometric Description of Spatial Objects

Mochammad ZULIANSYAH, Suhono HARSO SUPANGKAT, Yoga PRIYANA, Carmadi MACHBUB Bandung Institute of Technology

WAP.08 WTMaxMiner: Efficient Mining of Maximal Frequent Patterns based on Weighted Directed Graph **Traversals**

Runian GENG, *Xiangjun DONG, Ping ZHANG, Wenbo XU

Jiangnan University

*Shandong Institute of Light Industry

WAP.09 An Improved Fuzzy Comprehensive Evaluation Method using Expanded Least Deviations Algorithm

Wei CHEN, Xiaohong HAO, Jie LIN Lanzhou University of Technology

WAP.10 A New Genetic Algorithm for Optimization

Peirong JI, Xinyu HU, Qing ZHAO China Three Gorges University

WAP.11 Model Parameter Selection of Support Vector Machines

Mingyuan ZHAO, Ke TANG, Mingtian ZHOU, Fengli ZHANG, Ling ZENG University of Electronic Science and Technology of China

WAP.12 Emotion Recognition using Color and Pattern in Textile Images

Na-Yeon KIM, Yun-Hee SHIN, Young-Rae KIM, Eun-Yi KIM Konkuk University

WAP.13 Extraction of Text Classification Rules based on Multi-Population Collaborative Optimization

He LIU, Dayou LIU Jilin University

WAP.14 Study on the Design of CRM-Oriented Synthetic Decision Support System

Jinyu WEI, Rui CHEN, Hefeng YU Tianjin University of Technology

WAP.15 Application of ANP in Production Line Selection - A Case Study for ERP Sand Table Simulation Evaluation

Jinvu WEI. Ran BI

Tianjin University of Technology

WAP.16 Section Optimization Design of Discrete Structure with Improved Genetic Algorithms

Na LI, *Huiying HOU North China Electric Power University, Baoding *Baoding Civicism

WAP.17 Modeling Visual and Auditory Integration of Barn Owl Superior Colliculus with STDP

Juan HUO, Zhijun YANG, Alan MURRAY

The University of Edinburgh

WAP.18 An Optimized Atmospheric Missed Data Recovery Algorithm based on Singular Spectrum Iteration

Wei LIU, Weidong JIN, *Huizan WANG, *Ren ZHANG

Southwest Jiaotong University

*PLA University of Science and Technology

WAP.19 Tracking Control of Unmanned Trimaran Surface Vehicle: Using Adaptive Unscented Kalman Filter to Estimate the Uncertain Parameters

Yan PENG, Jianda HAN Chinese Academy of Sciences

WAP.20 A New Fast Histogram Matching Algorithm for Laser Scan Data

Quan QIU, Jianda HAN Chinese Academy of Sciences

WAP.21 Force Feedback Model of Electro-hydraulic Servo Tele-Operation Robot based on Velocity Control

Mingde GONG, Dingxuan ZHAO, Shizhu FENG, Hailong WEI, *Hironao YAMADA Jilin University

*Gifu University

WAP.22 Uncalibrated Visual Servoing using More Precise Model

Qingshan FU, Zhisheng ZHANG, Jinfei SHI Southeast University

WAP.23 AGV Dispatching Strategy based on Theory of Constraints

Shigang SONG, Aiping LI, Liyun XU Tongji University

WAP.24 Algorithms for Real Time Detection and Depth Calculation of Obstacles by Autonomous Robots

Vikas SINGH, Anvaya RAI, Hemanth N, Rohit D A, Asim MUKHERJEE Motilal Nehru National Institute of Technology

WAP.25 Analysis of an Eddy Current Sensor for Liquid Pressure Measuring by FEM Simulation

Linsen XU, Minzhou LUO, *Feng HAN, *Xiaojuan HU

Chinese Academy of Sciences

*Changzhou Institute of Mechatronics Engineering

WAP.26 Grasping Force Estimation Recognizing Object Slippage by Tactile Data using Neural Network

Abdul Md MAZID, *M Fakhrul ISLAM

Central Queensland University

*Monash University

WAP.27 Research of Time-frequency Analysis Method of Nonstationary Periodic Signal

Qiang ZHOU, Jiugiang HAN Xi'an Jiaotong University

WAP.28 The Synchronization Technique of Data Fusion for Integrated Navigation Systems

Wei WANG, *Zongyu LIU

Beijing University of Aeronautics and Astronautics

*Beijing Institute of Control Engineering

WAP.29 Multi-Parameters Optimization and Nonlinearity Analysis of the Grating Eddy Current Displacement Sensor

Hongli QI, Hui ZHAO, Weiwen LIU Shanghai Jiaotong University

WAP.30 Laser Triangulation Displacement Measurement Method using Prism-Based Optical Structure

Haibo ZHANG, Hui ZHAO, Wei TAO, Zhanbin WANG Shanghai Jiaotong University

WAP.31 Research on the Model of Iron and Steel Enterprises Group Production Scheduling Orienting to Group **Enterprises Management Pattern**

Xiaobing LIU, Yuchun WANG Dalian University of Technology

Session WM4

Neural Networks IV

WM4.1 A Neural Network Approach for Creating a NTC Thermistor Model Library for PSPICE Lianming WANG, *Yufen DENG, *Xianlong ZHAO, *Baoliang LIU

Northeast Normal University
*Institute of Hydrographic Surveying and Charting

WM4.2 A Delay-Dependent Stability Criterion for Neural Networks with Interval Time-varying Delays

Haixia WU, Wei ZHANG, *Wei FENG, **Zhengxia WANG Chongging Education College

*Chongqing University

**Chongqing Jiaotong University

WM4.3 Robust Control based on LS-SVM for Uncertain Nonlinear Systems

Hong YANG, Fei LUO, Yuge XU South China University of Technology

WM4.4 High Performance Intelligent PID Control System and Application

Lixin MA, Tao ZHOU, Minxuan CHEN, *Hiromi MIYAJIMA University of Shanghai for Science and Technology *Kagoshima University

WM4.5 Research on the Recognition of Surface Defects in Copper Strip based on Fuzzy Neural Network

Xuewu ZHANG, Yanyun LV, Yanqiong DING, Zhentao ZHOU Hohai University

WM4.6 Infinity Norm Based Neural Network Algorithm for Principal Component Analysis

Lijun LIU, *Hongjie XING, **Dong NAN

Dalian Nationalities University *Hebei University

**Beijing University of Technology

Session WM5

Evolutionary Computation

WM5.1	A Real-Coded Quantum-Inspired Evolutionary Algorithm for Global Numerical Optimization
	Chaoyong QIN, *Yongjuan LIU, **Jianguo ZHENG
	Guangxi University
	*Guangxi University of Technology

**Donghua University

WM5.2 A Sinusoid Size Ring Structure Quantum Evolutionary Algorithm

Mohammad-H TAYARANI-N, Mohammad-R AKBARZADEH-T Islamic Azad University of Mashhad

WM5.3 A Economic Lot Scheduling Problem for Manufacturing and Remanufacturing

Huiqing OUYANG, Xiangyang ZHU Shanghai Jiaotong University

WM5.4 Co-evolutionary Stability in the Alternating-Offer Negotiation Yongquan LIANG, Yong YUAN Shandong University of Science and Technology

WM5.5 Adaptation Ethnic Group Evolution Algorithm Hao CHEN, Duwu CUI, *Xue LI, Zhanmin WANG Xi'an University of Technology *Shaanxi Normal University

WM5.6 Manifold Learning with Local Geometry Preserving and Global Affine Transformation

Dong HUANG, Xiaorong PU University of Electronic Science and Technology of China

Session WM6

Optimization

WM6.1 Support Vector Regression Hybrid Algorithm based on Rough Set Jiuying DENG, Qiang CHEN, *Zongyuan MAO, *Xiangjun GAO Guangdong Institute of Education *South China University of Technology

WM6.2 A Heuristic Method for Job-Shop Scheduling with an Infinite Wait Buffer - From One-Machine to Multi-Machine Problems

Zhengyi, John ZHAO, *Ji Young KIM, **Ming LUO, ***Hoong Chuin LAU, Shuzhi Sam GE, J B ZHANG National University of Singapore

*Institute of Transportation and Logistics UTAC

**Singapore Institute of Manufacturing Technology

***Singapore Management University

WM6.3 Probabilistic Optimization Algorithms for Numerical Function Optimization Problems Mohammad-H TAYARANI-N, Mohammad-R AKBARZADEH-T Islamic Azad University of Mashhad

WM6.4 Optimal Control of Polymer Flooding Injection under Nonlinear Inequality Constraints Shurong LI, Lanlei GUO, Xiaodong ZHANG China University of Petroleum

WM6.5 Optimizing Cooperative Control based on Genetic Algorithm for ElectroSlag Remelting Process Jinchun SONG, Lili ZHAO, Hongyi LIU Northeastern University

WM6.6 Cooperative Task Allocation for Unmanned Combat Aerial Vehicles using Improved Ant Colony Algorithm

Jun TAO, Yantao TIAN, *Xiangheng MENG Jilin University

*Aviation University of Air Force

Session WMP

CIS Interactive Session VI & RAM Interactive Session VI

WMP.01 Investigation of KLIM Algorithm Applied to Face Recognition

Yunfei JIANG, Rukun HÜ, Ping GÜO, Xin ZHENG Beijing Normal University

WMP.02 A New MSBF-based HDR Image Processing Algorithm

Jun WANG, *Yan KANG
China Jiliang University
*The Youse Mapping and Conveying Institute of Zhejiang

WMP.03 Counting Method of Heterotrophic Bacteria based on Image Processing

Hong MEN, Yujie WU, Xiaoying LI, Zhen KOU, Shanrang YANG Northeast Dianli University

WMP.04 Research Advances and Prospects of Mathematical Morphology in Image Processing

Zijuan YU, Yuqian ZHAO, Xiaofang WANG Central South University

WMP.05 Improved Multi-scale and Structuring Element Morphological Detection in the Log CT Image

Lei YU, Dawei QI Northeast Forestry University

WMP.06 Delegatability of Designated Verifier Signature

Yongjian LIAO, Zhiguang QIN
University of Electronic Science and Technology of China

WMP.07 A Technique for the Quantitative Measure of Data Cleanliness

Abhijit WAKCHAURE, Ronald EAGLIN, Bahman MOTLAGH University of Central Florida

WMP.08 Operational Separability Criteria and Matrix Reorderings

Wei CHENG

University of Electronic Science and Technology of China

WMP.09 Research on Common Mode Noise Evaluation Method

Yonggao ZHANG, Yanli GAO, Ming YAO, *Qiang DONG East China Jiaotong University *Hubei University of Police

WMP.10 Proposal of an ODX Data Exchange System Applied to Automotive Diagnosis

Aurelien CREMMEL, *Armin AZARIAN, Ali SIADAT ENSAM
*Siemens AG

WMP.11 Combining Entropy Weight and TOPSIS Method for Information System Selection

Jingwen HUANG Guangxi University

WMP.12 Community Intrusion Detection and Pre-warning System based on Wireless Mesh Network

Meijuan GAO, Jingwen TIAN, *Kai LI, *Hao WU Beijing Union University *Beijing University of Chemical Technology

WMP.13 Optimal Control of DDoS Defense with Multi-Resource Max-min Fairness

Wei WEI, Yabo DONG, Dongming LU, *Guang JIN Zhejiang University
*Ningbo University

WMP.19 Development of Accelerated Life Test

Sijun ZHAO, Shaoping WANG, Jian SHI, Lan LI Beijing University of Aeronautics and Astronautics

WMP.20 Initial Development and Experiments on a Robotic Fish with a Novel Undulating Fin

Fangfang LIU, Canjun YANG, Yanqing XIE, Yin YANG *Zhejiang University*

WMP.21 Underwater Glider Embedded Control System Design based on QNX Real-time Kernel

Xibo WANG, Song LIU, *Ge YU, Qian LI Shenyang University of Technology *Northeastern University

WMP.22 Electro-Mechanical Heterogeneous Simulation of the Complex NC Machine Tool from Gear Milling and Hobbing

Xiaodiao HUANG, Chunjian YU Nanjing University of Technology

WMP.23 Improved Damped Least Squares Solution with Joint Limits, Joint Weights and Comfortable Criteria for Controlling Human-like Figures

Meng NA, Bin YANG, Peifa JIA Tsinghua University

WMP.24 Dual-cache Structure Based Large Scale Texture Mapping for Real-time Terrain Rendering

Dong TIAN, Xiaodong WANG, Xin ZHENG Beijing Normal University

WMP.25 A Level of Detail Selection Method for Multi-Type Objects based on the Span of Level Changed

Zhuo YU, Xiaohui LIANG, Zhiyu CHEN Beijing University of Aeronautics and Astronautics

WMP.26 Modeling and H_{∞} Robust Control for Mobile Robot

Wenping JIANG, *Weimin GE Tianjin University *Tianjin University of Technology

WMP.27 Multi-robot Cooperative Task Processing in Great Environment Taixiong ZHENG, Rui LI, Wenhao GUO, Liangyi YANG

Taixiong ZHENG, Rui LI, Wenhao GUO, Liangyi YANG Chongqing University of Posts and Telecommunications

WMP.28 Design of Comprehensive High-fidelity/High-speed Virtual Simulation System for Lunar Rover

Liang DING, Haibo GAO, Zongquan DENG, Peilin SONG, Rongqiang LIU Harbin Institute of Technology

WMP.29 Object Manipulation by Multiple Arms of a Wheeled Mobile Robotic System

S Ali A MOOSAVIAN, Mahdy ESLAMY K. N. Toosi University of Technology

Session WP4

Sensor Based Robotics

WP4.1 A Novel Object Recognition Method for Mobile Robot Localizing a Single Odor/gas Source in Complex Environments

Ping JIANG, Ming ZENG, Qinghao MENG, Fei LI, Yanhui LI *Tianjin University*

WP4.2 Design and Development PIC-Based Autonomous Robot

Moh Kee GOW, Zainah MD ZAIN, Rahmatul Hidayah SALIMIN Universiti Malaysia Pahang

WP4.3 Accurate Estimation of Posture and Velocity with Application to Coordinated Motion Control of Twin Hoisting-Girder Transportors

Zhongwei GUO, Yunhua LI

Beijing University of Aeronautics and Astronautics

WP4.4 Research on Chaos Dynamic Characteristics of Hybrid Squeeze Film Damper with Electro-hydraulic Active Control

Yunhua LI, *Chieh-Li CHEN Beijing University of Aeronautics and Astronautics *National Cheng Kung University

WP4.5 Robust 3D Line Extraction from Stereo Point Clouds

Zhao Jin LU, Seung Min BAEK, Suk Han LEE Sungkyunkwan University

Garighty armitivari Grint Gronty

WP4.6 Evaluation of a Low-cost Inertial Dynamic Measurement System

Jian GAO, *Phil WEBB, *Nabil GINDY Guangdong University of Technology *The University of Nottingham

Session WP5

Genetic Algorithm

WP5.1	Finding the Optimal Number of Clusters using Genetic Algorithms
	Yongguo LIU, Mao YE, *Jun PENG, Hong WU
	University of Electronic Science and Technology of China
	*Chongging University of Science and Technology

WP5.2 A DNA Genetic Algorithm for Beam Angle Selection in Radiotherapy Planning Jie LEI, Yongjie LI University of Electronic Science and Technology of China

WP5.3 Ontology-based Concept Map for Planning Personalized Learning Path Chih-Ming CHEN, *Chi-Jui PENG, *Jer-Yeu SHIUE National Chengchi University *National Hualien University of Education

WP5.4 Multiobjective Optimal Secure Routing Algorithm using NSGA-II Han DAN, Guangmin HU, Lu CAI University of Electronic Science and Technology of China

WP5.5 Optimization for the Reliability of TTCAN Bus based on Genetic Algorithms Xi CHEN, Weijie LV, Luyuan LIU *Tianjin University*

WP5.6 Genetic Algorithm Based Fuzzy Multi-objective Nonlinear Programming of Regional Water Allocation Shurong LI, Feng WANG, Tao MA, Wei YAN China University of Petroleum

Session WP6

Other Topics in CIS

WP6.1	Study on Fuzzy Automatic Transmission Strategy of Vehicles
	Zhiyi ZHANG, *Dingxuan ZHAO, Bei SUN
	Beihua University
	*Jilin University

- WP6.2 A Fuzzy SERVAQUL Model for Evaluating Service Quality of Service Industry Chien-Chang CHOU

 National Kaohsiung Marine University
- WP6.3 An Improved Result for Observer-based HI Fuzzy Control Chun Hsiung FANG, Shih Wei KAU, Hong Wei CHEN, Chi Chiuan LU, Te Yi CHIU, Kuan-Hsuan TSENG
 National Kaohsiung University of Applied Sciences
- WP6.4 Theory of Grey Systems and its Application in Electric Load Forecasting Peirong JI, Juan CHEN, Wenchen ZHENG China Three Gorges University
- WP6.5 Activity Invariant Sets and Stable Attractors of Lotka-Volterra Recurrent Neural Networks Lei ZHANG, Zhang YI, Bochuan ZHENG University of Electronic Science and Technology of China
- WP6.6 Semi-Automatic Creation of an Emotion Dictionary using WordNet and its Evaluation David B BRACEWELL GE Global Research