

! TENTATIVE !

TECHNICAL PROGRAM

**2006 IEEE INTERNATIONAL CONFERENCE ON
NETWORKING, SENSING AND CONTROL**

**April 23–25, 2006
Ft. Lauderdale, Florida, USA**

! TENTATIVE !

2006 IEEE ICNSC
Sunday, April 23, 2006

Grand Ballroom A-B-C

8:50 AM

Opening Remarks

Zhou, MengChu *General Chair* New Jersey Inst. Tech.

Grand Ballroom A-B-C

9:00 – 10:00

Plenary Lecture
Linguistic Dynamical Systems

Professor Fei-Yue Wang
University of Arizona

Chair: Zhou, MengChu New Jersey Inst. Tech.
Co-Chair: Wang, Chi-Hsu National Chiao-Tung University

Atlantic Ballroom I-II

10:00 – 10:30 Coffee Break

Morning Technical Sessions
10:30 – 12:10, Sunday, April 23, 2006

SA01 Room: Saloon B
Energy-Efficient Wireless/Sensor Special Session
Networks

Chair: Zhang, Chi Florida International University
Co-Chair: Shatz, Sol Univ. of Illinois at Chicago
Organizer: Zhang, Chi Florida International University

10:30

Token routing: A power efficient method for securing AODV routing protocol [#351] 0001

Li, Leiyuan Michigan Technological University
Chigan, Chunxiao Michigan Technological University

10:50

A technique for power-aware query-informed routing in support of long-duration queries for sensor networks [#223] 0001

Shatz, Sol Univ. of Illinois at Chicago
Zhang, Zhiguo Univ. of Illinois at Chicago

11:10

A distributed composite multiple criteria routing using distance vector [#603] 0001

Malakooti, Behnam Case Western Reserve University

11:30

Delay-constrained, energy-efficient routing in wireless sensor networks through topology control [#161] 0001

Pothuri, Pavan Oklahoma State University
Sarangan, Venkatesh Oklahoma State University
Thomas, Johnson Oklahoma State University

11:50

Energy and time efficient flooding algorithm for sensor networks [#339] 0001

Ghiassi-Farrokhfal, Yashar Sharif University of Technology, Iran

SA02

Medical and Bio Systems

Room: Saloon A
Lecture Session

Chair: Yang, Simon University of Guelph, Canada
Co-Chair: Mahd, Mufeed University of Massachusetts Lowell

1:30

A wireless sensor system for biopotential recording in the treatment of sleep apnea disorder [#517] 0001

Wang, Lei Stony Brook University
Noel, Eric Stony Brook University
Fong, Cheung Stony Brook University
Kamoua, Ridha Stony Brook University
Tang, Wendy Stony Brook University

1:50

A novel electronic nose for downwind livestock farm odour measurement [#121] 0001

Pan, Leilei University of Guelph, Canada
Yang, Simon University of Guelph, Canada

2:10

Applications of a 3D range camera towards healthcare mobility aids [#505] 0001

Bostelman, Roger National Inst. of Standards & Tech.
Russo, Peter National Inst. of Standards & Tech.
Albus, James National Inst. of Standards & Tech.
Hong, Tsai National Inst. of Standards & Tech.
Madhavan, Raj National Inst. of Standards & Tech.

2:30

Design for ensuring continuity of quality healthcare delivery for aging people [#211] 0001

Qiu, Robin Penn State
Zhang, Zhijun Penn State

2:50

Stability analysis of hybrid gene regulatory network models with intercellular diverse slow and fast dynamics [#238] 0001

Mahd, Mufeed University of Massachusetts Lowell

SA03

Intelligent Robots

Room: Saloon C
Lecture Session

Chair: Deng, Mingcong Okayama University, Japan
Co-Chair: Yao, Fenghui Tennessee State University

10:30

Swing-up control of the acrobot using a new partial linearization controller based on the Lyapunov theorem [#459] 0001

Henmi, Tomohiro Okayama University, Japan
Deng, Mingcong Okayama University, Japan

Inoue, Akira Okayama University, Japan

10:50
Towards a formal design of behaviors for autonomous robots
[#527] 0001
Wei, Shangming University of Illinois at Chicago
Zefran, Milos University of Illinois at Chicago

11:10
Modeling of ancient-style Chinese character and its applica-
tion to CCC robot [#148] 0001
Yao, Fenghui Tennessee State University
Shao, Guifeng Tennessee State University

11:30
Self-localization of autonomous sewer robots by using stereo
camera and laser scanner [#498] 0001
Ahrary, Alireza FAIS-Robotics Research Inst., Japan
Ishikawa, Masumi FAIS-Robotics Research Inst., Japan

11:50
Towards constant-time robot localization in large dynamic en-
vironments [#412] 0001
Tanaka, Kanji Kyushu University, Japan
Kondo, Eiji Kyushu University, Japan

12:20 – 1:20 Lunch

**Early Afternoon Technical Sessions
1:30 – 3:10, Sunday, April 23, 2006**

SM01 Room: Saloon B
Intelligent Infrastructure Special Session

Chair: Lukszo, Zofia Delft Univ. of Technology
The Netherlands

Co-Chair: Duinkerken, Mark Delft Univ. of Technology
The Netherlands

Organizer: Lukszo, Zofia Delft Univ. of Technology
The Netherlands

1:30
Optimization of the operation of infrastructures [#493] 0001
Lukszo, Zofia Delft University of Technology
Joksimovic, Dusica Delft University of Technology

1:50
Multi-agent control of transportation networks [#401] 0001
Negenborn, Rudy Delft University of Technology
De Schutter, Bart Delft University of Technology
Hellendoorn, Hans Delft University of Technology

2:10
Deciding on micro-chp: A multi-level decision-making ap-
proach [#509] 0001
Houwing, Michiel Delft University of Technology
Heijnen, Petra Delft University of Technology
Bouwman, Ivp Delft University of Technology

2:30
Intelligent control in networks: The case of road traffic man-
agement [#580] 0001
Vrancken, Jos Delft University of Technology
Krse, Otto Delft University of Technology

2:50
Dynamic free range routing for automated guided vehicles
[#312] 0001
Duinkerken, Mark Delft University of Technology
Van der Zee, Marijn Delft University of Technology
Lodewijks, Gabriel Delft University of Technology

SM02 Room: Saloon A
Mobile Ad Hoc Networks Lecture Session

Chair: Zefran, Milos University of Illinois at Chicago
Co-Chair: Turgut, Damla University of Central Florida

1:30
An entropy-based clustering in mobile ad hoc networks
[#536] 0001
Robinson, Kimberly University of Central Florida
Turgut, Damla University of Central Florida
Chatterjee, Mainak University of Central Florida

1:50
Durable distance vector multicasting protocol for mobile ad
hoc network [#003] 0001
Chang, Hyeong Sogang University, Korea
Lee, Se-Young Sogang University, Korea

2:10
Task switching in mobile wireless sensor networks [#528] 0001
Caicedo-N., Carlos University of Illinois at Chicago
Zefran, Milos University of Illinois at Chicago

2:30
A dynamic bandwidth allocation with collision avoidance
MAC design for mobile ad hoc network [#448] 0001
Jiang, Zaihan New Jersey Inst. Technology

2:50
An end-to-end TCP enhanced scheme based on mobile IPv6
[#440] 0001
Li, Miaoyan Liaoning University, China
Xue, Jiansheng Liaoning University, China

SM03 Room: Saloon C
Neural Networks Lecture Session

Chair: Piazza, Francesco Univ. Politecnica Delle
Marche, Italy
Co-Chair: Zhang, Yunong National University of
Ireland, Maynooth

1:30
Towards piecewise-linear primal neural networks for optimiza-
tion and redundant robotics [#081] 0001

Zhang, Yunong	National Univ. Ireland, Maynooth	Lu, Tianbo	Chinese Academy of Sciences
1:50		3:15	
<i>Comparing different recurrent neural architectures on a specific task from vanishing gradient effect perspective</i>		<i>A novel algorithm of license plates automatic location based on texture feature</i> [#256] 0001	
[#315]	0001	Chen, Zhenxue	Huazhong University of Science and Technology, China
Squartini, Stefano	Univ. Politecnica Delle Marche, Italy	Wang, Guoyou	Huazhong University of Science and Technology, China
Paolinelli, Stefano	Univ. Politecnica Delle Marche, Italy		
Piazza, Francesco	Univ. Politecnica Delle Marche, Italy		
2:10		3:15	
<i>Windows NT user profiling for masquerade detection</i>		<i>Coverage preserving in wireless sensor networks with different sensing radii</i> [#475] 0001	
[#468]	0001	Bai, Hongxing	Tsinghua University, China
Ling, Li	New Jersey Inst. Technology		
Song, Sui	New Jersey Inst. Technology		
Manikopoulos, C. N.	New Jersey Inst. Technology		
2:30		3:15	
<i>Dynamic optimal training of a three layer neural network with sigmoid function</i> [#411] 0001		<i>Effects of network capacity under variations of network structure and routing strategy</i> [#430] 0001	
Wang, Chi	National Chiao Tung Univ., Taiwan	Chen, Zhenyi	Shanghai Jiaotong University, China
Chi, Yu	National Chiao Tung Univ., Taiwan	Wang, Xiaofan	Shanghai Jiaotong University, China
2:50		3:15	
<i>Optimal control-based neurocontroller for crop growth in greenhouse</i> [#150] 0001		<i>Secure network component architecture model</i> [#206] 0001	
Pucheta, Julian	UNSJ, Argentina	Yi, Zhou	Zhejiang University, China
Patino, Daniel	UNSJ, Argentina	Ying, Li	Zhejiang University, China
Schugurensky, Carlos	UNSJ, Argentina	Yang, Li	Zhejiang University, China
Fullana, Rogelio	UNSJ, Argentina	Hui, Wu	Zhejiang University, China
Kuchen, Benjamin	UNSJ, Argentina		
Coffee Break and Interactive Sessions			
3:10 – 4:00, Sunday, April 23, 2006			
SI01	Atlantic Ballroom I-II		
Networking	Interactive Session		
Chair: Wen, John	Rensselaer Polytechnic Institute		
Co-Chair: Wang, Xiaofan	Shanghai Jiaotong Univ., China		
3:15		3:15	
<i>Time based TCP for high speed networks</i> [#417] 0001		<i>MBIO: A new active queue management algorithm for diff-serv network</i> [#560] 0001	
Xiang, Yanping	Chinese Academy of Sciences	Jiang, Ming	Hangzhou Dianzi University, China
Yi, Jianqiang	Chinese Academy of Sciences		
Zhao, Dongbin	Chinese Academy of Sciences		
Wen, John	Rensselaer Polytechnic Institute		
3:15		3:15	
<i>A stochastic reward net-based performance analysis of LEO satellite networks</i> [#356] 0001		<i>Research on the whole network link traffic measurement</i> [#170] 0001	
Hong, Zhiguo	Chinese Academy of Sciences	Jun, Shang	Chongqing University of Posts and Telecommunications, China
Sun, Fuchun	Chinese Academy of Sciences		
Xu, Fanjiang	Chinese Academy of Sciences		
Fan, Zhihua	Chinese Academy of Sciences		
Zheng, Gang	Chinese Academy of Sciences		
3:15		SI02	Atlantic Ballroom I-II
<i>Peer discovery in peer-to-peer anonymity networks</i> [#473]0001		Systems and Control	
		Interactive Session	
		Chair: Guan, Xinping	Yanshan University, China
		Co-Chair: Chen, Yangquan	Utah State University
		3:15	
		<i>Stochastic stability analysis of gene regulatory networks using hybrid systems theory</i> [#240] 0001	
		Mahd, Mufeed	University of Massachusetts Lowell

3:15					
	<i>Exponential convergence flow control model for congestion control</i> [#202]		0001		
	Liu, Weirong	Chinese Academy of Sciences			
	Yi, Jianqiang	Chinese Academy of Sciences			
	Zhao, Dongbin	Chinese Academy of Sciences			
	Wen, John	Rensselaer Polytechnic Institute			
3:15					
	<i>Controller theory based rating recommendation for reputation systems</i> [#551]		0001		
	Meng, Kui	Fudan University, China			
	Wang, Yue	Fudan University, China			
	Zhang, Xu	Fudan University, China			
	Zhang, Geng-Du	Fudan University, China			
3:15					
	<i>Derivation of generic error models procedure for 6 DOF motion system using multibody kinematics</i> [#118]		0001		
	Yao, Yu	Harbin Institute of Technology, China			
	Qu, Zhiyong	Harbin Institute of Technology, China			
3:15					
	<i>Hopf bifurcations in the Hodgkin-Huxley model</i> [#270]		0001		
	Fei, Xiangyang	Tianjin University, China			
	Che, Yanqiu	Tianjin University, China			
	Wang, Jiang	Tianjin University, China			
3:15					
	<i>Fault diagnose of rotating system based on ICA with reference</i> [#188]		0001		
	Li, Na	Nanjing Normal University, China			
	Fang, Yanjun	Nanjing Normal University, China			
	Li, Hong	Nanjing Normal University, China			
3:15					
	<i>Aspects on power system islanding for preventing widespread blackout</i> [#418]		0001		
	Liu, Yuanqi	Shandong University, China			
	Liu, Yutian	Shandong University, China			
3:15					
	<i>Algebraic criteria for the convergence in boundary layer for singularly perturbed system</i> [#318]		0001		
	Zhong, Ningfan	Nanjing University of Science and Technology, China			
	Zou, Yun	Nanjing University of Science and Technology, China			
	Sun, Minhui	Nanjing University of Science and Technology, China			
3:15					
	<i>Explicit rate controller design based on smith predictor in ATM networks</i> [#056]		0001		
	Liu, Zhixin	Yanshan University, China			
	Guan, Xinping	Yanshan University, China			
3:15					
	<i>Disturbance attenuation of discrete-time switched linear systems</i> [#054]		0001		
	Ji, Zhijian	Qingdao University, China			
	Wang, Long	Qingdao University, China			
3:15					
	<i>Study on control system of underwater vibration table based on real-time system identification</i> [#574]		0001		
	Zhu, Chunpeng	Zhejiang University, China			
	He, Wen	Zhejiang University, China			
	Jia, Shushi	Zhejiang University, China			
	SI03			Atlantic Ballroom I-II	
	Neural Network Architecture and Algorithms			Interactive Session	
	Chair: Tan, Yonghong			Guilin University of Electronic Technology, China	
	Co-Chair: Hu, Sanqing			University of Illinois at Chicago	
3:15					
	<i>A fast compositive training algorithm of forward neural network</i> [#555]		0001		
	Sun, Baiqing	Harbin Institute of Technology, China			
	Wang, Xuefeng	Harbin Institute of Technology, China			
	Pan, Qishu	Harbin Institute of Technology, China			
3:15					
	<i>Hybrid independent component analysis and support vector machine approach for audio classification</i> [#192]		0001		
	He, Xin	Najing University of Science and Technology, China			
	Shi, Yingchun	Najing University of Science and Technology, China			
	Zhou, Xianzhong	Najing University of Science and Technology, China			
3:15					
	<i>EHM based neural model for hysteresis</i> [#437]		0001		
	Tan, Yonghong	Guilin University of Electronic Technology, China			
	Ma, Lianwei	Guilin University of Electronic Technology, China			
3:15					
	<i>Implement any fractional order bionic neural-type pulse oscillator with analog fractance circuit</i> [#301]		0001		
	Pu, Yi-Fei	Sichuan University, China			
3:15					
	<i>Fractional order multilayer dynamics associative neural network</i> [#309]		0001		
	Pu, Yi-Fei	Sichuan University, China			
3:15					
	<i>An efficient algorithm for training the neural network</i> [#198]		0001		
	Yao, Zhihong	Shanghai University, China			
	Pu, Ziyang	Shanghai University, China			
	Fei, Minrui	Shanghai University, China			

Subsurface Sensing and Imaging Special Session

Chair: Chen, Xuemin University of Houston
Co-Chair: Commuri, Sesh University of Oklahoma
Organizer: Chen, Xuemin University of Houston

4:00

A 3-D real-time road edge detection system for automated smart car control [#609] 0001

Li, Jing University of Houston
Liu, Richard University of Houston
Chen, Xuemin University of Houston
Xing, Huichun University of Houston
Wang, Ying University of Houston

4:20

FDTD simulation in calculating thickness of subsurface layer with GPR [#597] 0001

Tang, Yumei University of Houston
Guo, Lianhe University of Houston
Li, Jing University of Houston
Chen, Xuemin University of Houston
Liu, Richard University of Houston

4:40

Two-dimensional resistivity imaging survey for detecting temitaria in a dam [#610] 0001

Dong, Haobin China University of Geosciences

5:00

A texture-based morphologic enhancement filter in 2-D thoracic CT scans [#611] 0001

Yu, Yang Neusoft Research, China
Zhao, Hong Neusoft Research, China

5:20

The 3-dimensional wireless sensor network coverage problem [#034] 0001

Wafra, Mohamed University of Oklahoma
Commuri, Sesh University of Oklahoma

SP02 Room: Saloon A
Smart Sensor Networks Lecture Session

Chair: Fang, Yuguang University of Florida
Co-Chair: Elhanany, Itamar University of Tennessee

4:00

Interference-constrained maximum flow in wireless sensor networks with directional antennas [#545] 0001

Huang, Xiaoxia University of Florida
Wang, Jianfeng University of Florida
Fang, Yuguang University of Florida

4:20

Urban flash flood monitoring, mapping, and forecasting via a tailored sensor network system [#620] 0001

Chang, Ni-Bin University of Central Florida

4:40

Extracting critical attributes in wireless sensor networks using modified regression polynomial [#571] 0001

Banerjee, Torsha University of Cincinnati
Agrawal, Dharna University of Cincinnati
French, Donald University of Cincinnati

5:00

RL-MAC: A QoS-aware reinforcement learning based MAC protocol for wireless sensor networks [#393] 0001

Elhanany, Itamar University of Tennessee
Liu, Zhenzhen University of Tennessee

5:20

A self-organizing heuristic for building optimal heterogeneous ad-hoc sensor networks [#404] 0001

Ranganathan, Prasanna University of Cincinnati
Ranganathan, Aravind University of Cincinnati
Minai, Ali University of Cincinnati
Berman, Kenneth University of Cincinnati

SP03 Room: Saloon C
Optimal Estimation/Scheduling/Control Lecture Session

Chair: Moore, Kevin Colorado School of Mines
Co-Chair: Yu, Hongnian Staffordshire University, UK

4:00

Optimal estimation with scheduled measurements [#319]0001

Imer, Orhan Univ. Illinois at Urbana-Champaign
Basar, Tamer Univ. Illinois at Urbana-Champaign

4:20

Non-blocking optimal control and scheduling of multi-entry and multi-outlet serial production lines [#316] 0001

Yu, Hongnian Staffordshire University, UK

4:40

Dynamic survivable resource pooling in FPGA-based distributed robotics system [#512] 0001

Abd El Al, Ahmed City University of New York
Hokelek, Ibrahim City University of New York
Uyar, M. Umit City University of New York
Zou, Jianping City University of New York

5:00

Optimal spraying control of a diffusion process using mobile actuator networks with fractional potential field based dynamic obstacle avoidance [#162] 0001

Chen, Yangquan Utah State University
Wang, Zhongmin Utah State University
Moore, Kevin Colorado School of Mines

5:20

Maximizing the utility of a computer service using adaptive optimal control [#164] 0001

Karlsson, Magnus HP Labs, USA

End of the 1st day, 5:40 PM

2006 IEEE ICNSC
Monday, April 24, 2006

Grand Ballroom A-B-C

9:00 – 10:00 AM

Plenary Lecture
Energy Efficient Systems and Networking
A New Perspective

Dr. Paul Werbos
National Science Foundation

Chair: Wang, Fei-Yue University of Arizona
Co-Chair: Liu, Derong University of Illinois at Chicago

Atlantic Ballroom I-II

10:00 – 10:30 Coffee Break

Morning Technical Sessions
10:30 – 12:10, Monday, April 24, 2006

MA01 Room: Saloon B
Energy Efficient Sensor Networks Lecture Session

Chair: Jagannathan, Sarangapani Univ. Missouri-Rolla
Co-Chair: Yang, Liuqing University of Florida

10:30
Evaluation and optimization of battery-energy-aware PPM schemes for wireless sensor networks [#497] 0001
Yang, Liuqing University of Florida
Tang, Qiuling Nanjing University, China
Qin, Tuanfa Nanjing University, China
Zhang, Shuyi Nanjing University, China

10:50
Deterministic energy conserving algorithms for wireless sensor networks [#572] 0001
Muhammad, Rashid Kent State University

11:10
OEDSR: Optimal energy delay sub-network routing protocol for wireless sensor networks [#547] 0001
Ratnaraj, Sibila University of Missouri-Rolla
Jagannathan, Sarangapani University of Missouri-Rolla
Rao, Vittal University of Missouri-Rolla

11:30
Advantages of node energy control for route selection in wireless sensor networks [#324] 0001
Gomes, Reinaldo UFPE, Brazil
Souto, Eduardo UFPE, Brazil
Kelner, Judith UFPE, Brazil
Sadok, Djamel UFPE, Brazil

11:50
Energy efficient MAC protocol for sensor networks with mobile agents [#342] 0001
Ghiassi-Farrokhfal, Yashar Sharif Univ. Tech., Iran

MA02 Room: Saloon A
Particle Swarm Optimization Lecture Session

Chair: Hou, Zeng-Guang Chinese Academy of Sciences
Co-Chair: Hirashima, Yoichi Okayama University, Japan

10:30
A particle swarm optimization approach for procedure parameters optimization of semiconductor assembly product line [#241] 0001
Wang, Lei Tongji University, China
Kang, Qi Tongji University, China
Wu, Qidi Tongji University, China

10:50
A new reinforcement learning for group-based marshaling plan considering desired layout of containers in port terminals [#281] 0001
Hirashima, Yoichi Okayama University, Japan
Ishikawa, Naoko Okayama University, Japan
Takeda, Kazuhiro Okayama University, Japan

11:10
Self-organization of a class of social foraging swarms [#286] 0001
Liu, Bo Peking University, China
Chu, Tianguang Peking University, China
Wang, Long Peking University, China

11:30
Intelligent particle swarm optimization using Q-learning [#557] 0001
Marandi, Alireza University of Tehran, Iran
Afshinmanesh, Farzaneh University of Tehran, Iran
Khajenejad, Mohammad University of Tehran, Iran
Nadjar Araabi, Babak University of Tehran, Iran

11:50
Feature subset selection for face detection using genetic algorithms and particle swarm optimization [#210] 0001
Aliyari, Mahdi Islamic Azad Univ., Iran
Teshnehlab, Mohammad K. N. Toosi University of Technology, Iran
Abrishami Moghaddam, Hamid K. N. Toosi University of Technology, Iran

MA03 Room: Saloon C
Nonlinear and H_∞ Control Lecture Session

Chair: Zhai, Guisheng Osaka Prefecture Univ., Japan
Co-Chair: Tan, Yonghong Guilin University of Electronic Tech., China

10:30
Analysis and design of H_∞ feedback control systems with two quantized signals [#140] 0001
Zhai, Guisheng Osaka Prefecture Univ., Japan

A new nonlinear beamformer for CDMA wireless communications [#226] 0001
 Xie, Ning Sun Yat-Sen University, China
 Zhou, Yuanping Sun Yat-Sen University, China

MM03 Room: Saloon C
Advanced Control Applications Lecture Session

Chair: Su, Chun-Yi Concordia University, Canada
 Co-Chair: Yang, Hanlong Motorola, USA

1:30
Development scheme of SoPC-based reconfigurable controllers [#577] 0001
 Hung, Min-Hsiung National Defense University, Taiwan
 Chen, Yung-Te National Defense University, Taiwan
 Ho, Rui-Wen National Defense University, Taiwan
 Chen, Gong National Defense University, Taiwan

1:50
Uniformly distributed seeds for randomized trace estimator and $o(n^2)$ -operation log-det approximation in Gaussian process regression [#424] 0001
 Zhang, Yunong National Univ. Ireland, Maynooth

2:10
Indirect sensing for misfire detection with msma, tric, and mulc [#343] 0001
 Liu, Louis Motorola, USA
 Yang, Hanlong Motorola, USA
 Plee, Steven Motorola, USA

2:30
Relative assessments of current dependent models for magneto-rheological fluid dampers [#344] 0001
 Su, Chun-Yi Concordia University, Canada
 Ma, Xiao Qing Concordia University, Canada
 Rakheja, Subhash Concordia University, Canada

2:50
On control gain selection in PI-RED [#203] 0001
 Xiong, Nai JAIST, Japan
 Defago, Xavier JAIST, Japan
 He, Yan Wuhan University, China
 Yang, Yan JAIST, Japan
 He, Jing JAIST, Japan

Coffee Break and Interactive Sessions
3:10 – 4:00, Monday, April 24, 2006

MI01 Atlantic Ballroom I-II
Sensing Interactive Session

Chair: Tu, Guofang Chinese Academy of Science
 Co-Chair: Fang, Yuguang University of Florida

3:15
Object tracking and QoS control using infrared sensor and

video cameras [#427] 0001
 Tu, Guofang Chinese Academy of Sciences
 Wu, Jiankang Chinese Academy of Sciences
 Zhang, Can Chinese Academy of Sciences

3:15
Stochastic routing in large scale sensor networks [#334] 0001
 Zhang, Wei Tongji University, China
 Jiang, Ping Tongji University, China
 Chen, Qijun Tongji University, China

3:15
Efficient long signature matching for gigabit intrusion detection sensors [#300] 0001
 Gao, Ming Xi'an Jiaotong University, China
 Zhang, Kenong Xi'an Jiaotong University, China
 Lu, Jiahua Xi'an Jiaotong University, China

3:15
Relative position measurements in vision-based multi-person tracking [#399] 0001
 Tanaka, Kanji Kyushu University, Japan
 Kondo, Eiji Kyushu University, Japan

3:15
A protocol analysis method of acceleration sensor in Maglev Train [#187] 0001
 Liu, Zhigang Southwest Jiaotong University, China

3:15
A near optimum RREQ flooding algorithm in sensor networks [#338] 0001
 Ghiassi-Farrokhfal, Yashar Sharif University of Technology, Iran

3:15
3D map building based on stereo vision [#214] 0001
 Chen, Huahua Hangzhou Dianzi University, China
 Xu, Zezhong Hangzhou Dianzi University, China

3:15
Multi-feature remote sensing image classification based on data fusion [#221] 0001
 Liu, Anfei Information Engineering Univ., China
 Zhu, Xiaodong Gannan Teachers College, China
 Li, Bicheng Information Engineering Univ., China

3:15
Probabilistic forwarding (ProFor) for large scale sensor networks [#193] 0001
 Chen, Xi Tsinghua University, China
 Ho, Yu-Chi Tsinghua University, China
 Zhang, Jiansong Tsinghua University, China
 Bai, Hongxing Tsinghua University, China

3:15
Electronic target recognition based on multi-sensor data fusion [#136] 0001
 Wang, Jiegui East China Research Institute of Electronic Engineering

MI02 Atlantic Ballroom I-II
PSO and Learning Interactive Session

Chair: Sun, Changyin Hohai University, China
Co-Chair: DasGupta, Bhaskar University of Illinois
at Chicago

3:15
Evolutionary minority game on scale-free networks
[#433] 0001

Shang, Lihui Shanghai Jiaotong University, China
Wang, Xiaofan Shanghai Jiaotong University, China

3:15
*Research on the application of case library based on gird using
particle swarm optimization* [#388] 0001

Zhu, Hong Jilin University, China

3:15
*Flocking coordination of multiple interactive dynamical agents
with switching topology* [#196] 0001

Shi, Hong Peking University, China
Wang, Long Peking University, China
Chu, Tianguang Peking University, China
Xu, Minjie Peking University, China

3:15
*Support vector machines with PSO algorithm for short-term
load forecasting* [#500] 0001

Sun, Changyin Hohai University, China

3:15
*Architecture design and developing techniques for rescue
agent* [#216] 0001

Yang, Yongming Northeast Normal University, China

3:15
*Transmission network expansion planning using the compos-
ite particle swarm optimization algorithm* [#133] 0001

Ren, Ping Northeastern University, China

3:15
*A novel approach to integrated preventive maintenance plan-
ning and production scheduling for a single machine using the
chaotic particle swarm optimization algorithm* [#280] 0001

Ren, Ping Northeastern University, China

3:15
*Application of the particle swarm optimization to the produc-
tion planning in the flexible production system* [#135] 0001

Ren, Ping Northeastern University, China

3:15
Improving learning stability for reinforcement learning agent
[#596] 0001

Du, Xiaoqin Huazhong University of Science
and Technology, China
Li, Qinghua Huazhong University of Science
and Technology, China

3:15
*Agent-enabled service model with cooperation strategies in
P2P system* [#306] 0001

Yang, Ying Donghua University, China

3:15
*Research on scheduling in multi-softman system with the
learning mode based on genetic algorithms* [#327] 0001

Pang, Jie Beijing Forestry University, China
Li, Guizhi Beijing Inst. of Machinery, China
Wei, Yaoguang China Agriculture University
Ning, Shunrong Beijing Inst. of Technology, China
Tu, Xuyan Beijing Univ. Science & Tech., China

MI03 Atlantic Ballroom I-II
Neural Network Applications Interactive Session

Chair: Yi, Jianqiang Chinese Academy of Sciences
Co-Chair: Zhai, Guisheng Osaka Prefecture Univ., Japan

3:15
*Using associative neural network to interpret syndrome of tra-
ditional Chinese medicine* [#145] 0001

Xi, Guangcheng Chinese Academy of Sciences
Chen, Jianxin Chinese Academy of Sciences
Yi, Jianqiang Chinese Academy of Sciences
Zhao, Dongbin Chinese Academy of Sciences

3:15
*Fuzzy-neural network adaptive control of micro gas turbine
with prediction model* [#177] 0001

Deng, Wei Northeastern University, China
Zhang, Huaguang Northeastern University, China

3:15
*Improved ANN AISI and its application in erythromycin fer-
mentation process* [#321] 0001

Wang, Wancheng Southeast University, China
Dai, Xianzhong Southeast University, China
Ding, Yuhan Southeast University, China

3:15
*Neural network modeling of vehicle gross emitter prediction
based on remote sensing data* [#594] 0001

Hu, Yueming South China University of Technology

3:15
*Implementation of cold rolling workpieces CNC machine
based on fuzzy control* [#128] 0001

Zhu, Xuemei Nanjing Normal University, China
Li, Yunfei Nanjing Normal University, China

3:15
*Design of fractional order digital differentiators using sine ba-
sis function neural network* [#245] 0001

Liao, Ke Sichuan University, China
Yuan, Xiao Sichuan University, China
Pu, Yi-Fei Sichuan University, China
Zhou, Jiliu Sichuan University, China

3:15	<i>Research and application of a new artificial immune algorithm which based on SOM neural network [#308]</i>	0001		
	Wei, Yaoguang		China Agriculture University	
3:15	<i>An artificial neural network based expert system for fruit tree disease and insect pest diagnosis [#231]</i>	0001		
	Liu, Gang		China Agricultural University	
3:15	<i>Application of evolutionary neural network in stock market [#556]</i>	0001		
	Gao, W.		Wuhan Polytechnic University, China	
3:15	<i>Neural network inverse synchronous control of two-motor variable frequency speed-regulating system [#275]</i>	0001		
	Dai, Xiangzhong		Jiangsu University, China	
	Liu, Guohai		Jiangsu University, China	
	Zhang, Hao		Jiangsu University, China	
	Shen, Yue		Jiangsu University, China	
3:15	<i>Contrast enhancement for fruit image by gray transform and wavelet neural network [#317]</i>	0001		
	Zhang, Changjiang		Zhejiang Normal Univ., China	
MI04			Atlantic Ballroom I-II	
Petri Net and Supply Chain			Interactive Session	
	Chair: Niu, Feng		Motorola, USA	
	Co-Chair: Li, Zhiwu		Xidian University, China	
3:15	<i>Incomplete load data processing in distribution system [#147]</i>	0001		
	Zhang, Tieyan		Northeastern University, China	
	Liu, Li		Shenyang Inst. Engineering, China	
	Zhang, Huaguang		Northeastern University, China	
	Zhang, Yuan		Northeastern University, China	
3:15	<i>Component-level reduction rules for time Petri nets based on DTPN [#026]</i>	0001		
	Jiang, Jinlong		Nanjing University of Science and Technology, China	
	Zhou, Xianzhong		Nanjing University of Science and Technology, China	
	Sun, Yongcheng		Nanjing University of Science and Technology, China	
3:15	<i>Research on architecture of manufacturing grid for application service provider mode [#228]</i>	0001		
	Wu, Dong		Zhejiang University, China	
	Qi, Guoning		Zhejiang University, China	
	Xie, Qingsheng		Zhejiang University, China	
	Gu, Xinjian		Zhejiang University, China	
3:15	<i>Agile supply chain management system in periodical balancing environment [#332]</i>	0001		
	Liu, Zhi		Tsinghua University, China	
	Liu, Yi		Tsinghua University, China	
	Chai, Yueting		Tsinghua University, China	
3:15	<i>On the optimal set of elementary siphons of Petri nets for deadlock control in FMS [#097]</i>	0001		
	Hu, Hesuan		Xidian University, China	
	Li, Zhiwu		Xidian University, China	
	Wang, Anrong		Xidian University, China	
3:15	<i>Liveness-enforcing supervisors for flexible manufacturing systems with multiple resource acquisitions [#098]</i>	0001		
	Li, Zhiwu		Xidian University, China	
	Liang, Jingwei		Xidian University, China	
	Han, Baojun		Xidian University, China	
3:15	<i>A polynomial algorithm to decide the liveness for a class of Petri nets [#099]</i>	0001		
	Li, Zhiwu		Xidian University, China	
	Liu, Ding		Xidian University, China	
3:15	<i>On deadlock control using petri nets and elementary siphons [#100]</i>	0001		
	Li, Zhiwu		Xidian University, China	
	Ma, Xiong		Xidian University, China	
3:15	<i>Design and analysis of urban traffic lights using timed colour Petri nets [#369]</i>	0001		
	Huang, Yi-Sheng		Chung Cheng Inst. Tech., Taiwan	
3:15	<i>Study on chain model of evolutionary game of industrial cluster under strong correlation between individual pay-off and individual quantity [#407]</i>	0001		
	Ruan, Aiqing		Nanjing Univ. Aeronautics and Astronautics, China	
	Liu, Sifeng		Nanjing Univ. Aeronautics and Astronautics, China	
	Fang, Zhigeng		Nanjing Univ. Aeronautics and Astronautics, China	
	Hu, Yong		Nanjing Univ. Aeronautics and Astronautics, China	
	Hu, Mingli		Nanjing Univ. Aeronautics and Astronautics, China	
3:15	<i>Interval analytical approach to roll vendor selection for a large-scale steel-iron enterprise [#455]</i>	0001		
	Zhu, Jianjun		Nanjing Univ. Aeronautics and Astronautics, China	
	Liu, Sifeng		Nanjing Univ. Aeronautics and	

5:00

Exponentially stabilizing output tracking of fully autonomous passenger cars with an observer [#013] 0001

Kumarawadu, Sisil	Univ. Moratuwa, Sri Lanka
Perng, Jau-Woei	National Chiao-Tung University, Taiwan
Lee, Tsu-Tian	Naitonal Taipei University of Technology, Taiwan

5:20

Travelers predictive route guidance using vehicle-to-vehicle communication [#237] 0001

Moustafa, Walaa El-Din	Alexandria University, Egypt
Nagi, Magdy	Alexandria University, Egypt
El-Makky, Nagwa	Alexandria University, Egypt

Grand Ballroom A-B-C

6:30 – 9:00 PM Conference Banquet

End of the 2nd day, 9:00 PM

2006 IEEE ICNSC
Tuesday, April 25, 2006

Grand Ballroom A-B-C

9:00 – 10:00 AM

Plenary Lecture
Energy Efficient Process Control

Professor Tianyou Chai
Northeastern University of China

Chair: Lee, Tsu-Tian	Naitonal Taipei University of Technology, Taiwan
Co-Chair: Su, Chun-Yi	Concordia University, Canada

Atlantic Ballroom I-II

10:00 – 10:30 Coffee Break

Morning Technical Sessions
10:30 – 12:10, Tuesday, April 25, 2006

TA01	Room: Saloon B
Quality and Reliability of Critical Network Infrastructures	Special Session

Chair: Li, Xiangyang	University of Michigan-Dearborn
Co-Chair: Wu, Naiqi	Guangdong University of Technology, China
Organizer: Li, Xiangyang	University of Michigan-Dearborn
Organizer: Wu, Naiqi	Guangdong University of Technology, China
Organizer: Shiau, Jiun-Yan	Chung Yuan Christian University, Taiwan

10:30

A novel approach to trojan horse detection by process tracing [#501] 0001

Wu, Naiqi	Guangdong Univ. Technology, China
Chen, Guiqing	Guangdong Univ. Technology, China

10:50

A quantitative survivability evaluation model for wireless sensor networks [#601] 0001

Li, Xueping	University of Tennessee
Yang, Dengfeng	University of Tennessee

11:10

A quality assurance framework for network attack correlation [#585] 0001

Li, Xiangyang	University of Michigan-Dearborn
Chandra, Charu	University of Michigan-Dearborn

11:30

An agent-based system for context-sensitive information integration [#591] 0001

Xing, Yan	Guangdong Univ. Technology, China
Zhan, Yinwei	Guangdong Univ. Technology, China

11:50

A change control workflow to conceptual design for supply chain [#239] 0001

Shiau, Jiun-Yan Chung Yuan Christian Univ., Taiwan
Li, Xiangyang University of Michigan-Dearborn
Tseng, Ju-Ching Chung Yuan Christian Univ., Taiwan

TA02 Room: Saloon A
Network Synchronization and Control Lecture Session

Chair: Shorten, Robert National University of Ireland, Maynooth
Co-Chair: Okino, Clayton Jet Propulsion Laboratory

10:30
SF-SCTP: An extension of stream control transmission protocol to support QoS [#461] 0001

Zou, Jianping City University of New York
Uyar, M. Umit City University of New York
Fecko, Mariusz Telcordia Technologies, USA
Samtani, Sunil Telcordia Technologies, USA

10:50
Protocol sensing with the reconfigurable protocol chip for space-based applications [#402] 0001

Okino, Clayton Jet Propulsion Laboratory
Gray, Andrew Jet Propulsion Laboratory
Mukai, Ryan Jet Propulsion Laboratory

11:10
Flow-based statistical aggregation schemes for network anomaly detection [#472] 0001

Song, Sui New Jersey Inst. Technology
Ling, Li New Jersey Inst. Technology
Manikopoulos, C. N. New Jersey Inst. Technology

11:30
Deterministic synchronization algorithms and convergence rates [#506] 0001

Akar, Mehmet National Univ. Ireland, Maynooth
Shorten, Robert National Univ. Ireland, Maynooth

11:50
A hierarchical chained-ripple time synchronization in wireless sensor networks [#474] 0001

Shin, Kee-Young Electronics & Telecomm. Research Inst., Korea
Lee, Kang yong Electronics & Telecomm. Research Inst., Korea

TA03 Room: Saloon C
Fuzzy Logic and Systems Lecture Session

Chair: Hu, Sanqing Univ. Illinois at Chicago
Co-Chair: Tang, Ying Rowan University

10:30
A memory fuzzy learning for uncertainty management in disassembly [#027] 0001

Tang, Ying Rowan University

10:50
Fuzzy entropy-based scheduling strategies for resource-limited distributed reactive systems [#296] 0001

Axbrink, Christian University of Boras, Sweden
Sillitoe, Ian University of Boras, Sweden

11:10
Delay-dependent guaranteed cost control for uncertain stochastic fuzzy systems with time-delay [#581] 0001

Wang, Yingchun Northeastern University, China
Zhang, Huaguang Northeastern University, China
Hu, Sanqing Univ. Illinois at Chicago
Liu, Derong Univ. Illinois at Chicago

11:30
The construction of the firms performance evaluation model on outsourcing activities—Application of the fuzzy synthesis judge [#169] 0001

Kung, Chaang-Yung Chaoyang University, Taiwan

11:50
A novel training algorithm in ANFIS structure [#212] 0001

Aliyari, Mahdi Islamic Azad Univ., Iran
Teshnehlab, Mohammad K. N. Toosi University of Technology, Iran
Khaki Sedigh, Ali K. N. Toosi University of Technology, Iran

12:20 – 1:20 Lunch

Early Afternoon Technical Sessions
1:30 – 3:10, Tuesday, April 25, 2006

TM01 Room: Saloon B
Cooperative Dynamic Systems II Special Session

Chair: Fierro, Rafael Oklahoma State University
Co-Chair: Pack, Daniel United States Air Force Academy
Organizer: Pack, Daniel United States Air Force Academy
Organizer: Fierro, Rafael Oklahoma State University

1:30
Coordinated patterns on smooth curves [#635] 0001

Zhang, Fumin Princeton University

1:50
Development of a persistent search algorithm using low cost microprocessor based robots as a test bench [#626] 0001

Geu, Matthew University of Wyoming
Barrett, Steven University of Wyoming
Pack, Daniel United States Air Force Academy

2:10
Higher-order consensus algorithms in cooperative vehicle systems [#624] 0001

Moore, Kevin Colorado School of Mines
Ren, Wei Utah State University
Chen, Yangquan Utah State University

2:30
Information-based cooperative control of multiple UAVs
[#618] 0001

Pack, Daniel United States Air Force Academy
Fierro, Rafael Oklahoma State University

2:50
Cooperative control design strategies with local interactions
[#619] 0001

Ren, Wei Utah State University

3:10
Empirical study on the effects of synthetic social structures on teams of autonomous vehicles [#632] 0001

Campbell, Adam University of Central Florida
Wu, Annie University of Central Florida
Shumaker, Randall University of Central Florida
Luke, Sean George Mason University
De jong, Kenneth George Mason University

TM02 Room: Saloon A
Network Security Lecture Session

Chair: Okino, Clayton Jet Propulsion Laboratory
Co-Chair: Liu, Guoping Chinese Academy of Sciences

1:30
Improvement on security of a practical solution to remote authentication [#384] 0001

Liu, Guoping Chinese Academy of Sciences
Wang, Yingjie Chinese Academy of Sciences
Li, Chunlai Chinese Academy of Sciences

1:50
Towards accurate and efficient network emulation [#538]0001

Guo, Zhihao Case Western Reserve University
Malakooti, Behnam Case Western Reserve University

2:10
Protocol stacks for manned exploration missions [#526] 0001

Okino, Clayton Jet Propulsion Laboratory
Clare, Loren Jet Propulsion Laboratory
Walsh, William Jet Propulsion Laboratory
Gao, Jay Jet Propulsion Laboratory

2:30
A novel communication protocol and delay model for networking satellites [#330] 0001

Greca, Ardian Georgia Southern University
Jovanovic, Stevan Georgia Southern University

2:50
The research of a grid security agent for the network blocking control [#080] 0001

Yang, Wenchuan Beijing University of Post and Telecommunication, China

TM03 Room: Saloon C
Sensor Networks Lecture Session

Chair: Cheng, Liang Lehigh University
Co-Chair: Qi, Hairong University of Tennessee

10:30
Recursive online EM algorithm for adaptive sensor deployment and boundary estimation in sensor networks [#583]0001

Guo, Zhen New Jersey Institute of Technology
Jiang, Guofei New Jersey Institute of Technology

10:50
Coverage boundary detection in sensor networks [#608] 0001

Zhang, Chi Florida International University
Fang, Yuguang University of Florida
Zhang, Yanchao University of Florida

11:10
An application-oriented virtual microsensor integration platform [#478] 0001

Du, Hongtao University of Tennessee
Qi, Hairong University of Tennessee
Bouldin, Donald University of Tennessee

11:30
Multi-objective routing in wireless sensor networks with a differential evolution algorithm [#392] 0001

Xue, Feng GE Global Research Center
Sanderson, Arthur Rensselaer Polytechnic Institute
Graves, Robert Dartmouth College

11:50
Topology maintenance of wireless sensor networks in node failure-prone environments [#469] 0001

Frye, Lisa Kutztown University
Cheng, Liang Lehigh University

Coffee Break and Interactive Sessions
3:10 – 4:00, Tuesday, April 25, 2006

TI01 Atlantic Ballroom I-II
Control Systems Interactive Session

Chair: Zefran, Milos University of Illinois at Chicago
Co-Chair: Sun, Changyin Hohai University, China

3:15
A novel control method for a class of cascade nonlinear systems [#499] 0001

Wu, Liqiang Chinese Academy of Sciences
Han, Jingqing Chinese Academy of Sciences
Hou, Zeng-Guang Chinese Academy of Sciences

3:15
Robust delay-dependent stability and stabilization of a class of uncertain linear neutral systems with multiple delays [#038] 0001

Hao, Fei Beijing University of Aeronautics and Astronautics, China
Wang, Long Beijing University of Aeronautics

and Astronautics, China
 Chu, Tianguang Beijing University of Aeronautics and Astronautics, China

3:15
Multiple models intelligent control for a class of nonlinear systems [#060] 0001
 Sun, Changyin Hohai University, China

3:15
Almost global asymptotical stabilization in probability of non-holonomic systems [#299] 0001
 Wang, Jiang Tianjin University, China
 Gao, Hanqiao Tianjin University, China

3:15
Two layer optimization compatible control for multi-objective control systems [#488] 0001
 Xu, Lihong Tongji University, China
 Zou, Zhiqiang Tongji University, China
 Hu, Qingsong Tongji University, China

3:15
Construction of a Lyapunov function for nonlinear cascaded systems with dynamic uncertainties [#379] 0001
 Chen, Zhiyong Chinese Univ. of Hong Kong
 Huang, Jie Chinese Univ. of Hong Kong

3:15
Compensation control of DC motors by loss-free resistors [#257] 0001
 Wu, Jianhua Northeastern University, China
 Xu, Xinhe Northeastern University, China
 Yin Hongyi Northeastern University, China

3:15
Finite horizon optimal control of networked control systems with Markov delays [#438] 0001
 Wu, Jin South China University of Technology
 Deng, Feiqi South China University of Technology

3:15
Preliminary results on null controllable region of discrete-time switched linear systems with input saturation [#053] 0001
 Ji, Zhijian Qingdao University, China

3:15
Monitoring of batch processes with non-linear modeling methods [#385] 0001
 Xiao, Ying-Wang Southern Yangtze University, China

3:15
Integral input-to-state stability of nonlinear control systems with delays [#057] 0001
 Zhu, Wenli South Western University of Finance and Economics
 Hu, Jin University of Electronic Science and Technology of China

Signal Processing and Communications

Interactive Session

Chair: Sarangapani, Jagannathan University of Missouri-Rolla
 Co-Chair: Pan, Quan Northwester Polytechnical University, China

3:15
An algorithm for UCA sources parameter estimate based on multistage Weiner filters [#066] 0001
 Shi, Yu Jilin University, China
 Wang, Shuxun Jilin University, China
 Huang, Zhiqiang Jilin University, China

3:15
A method for 4-D parameter estimation of near-field sources [#069] 0001
 Huang, Zhiqiang Jilin University, China
 Wang, Shuxun Jilin University, China
 Wang, Bo Jilin University, China

3:15
Analysis and measurement of wobble error on simulation turntable [#115] 0001
 Qu, Zhiyong Harbin Institute of Technology, China
 Yu, Yao Harbin Institute of Technology, China

3:15
Error model and vibration analysis of Timoshenko beam subjected to a moving mass [#116] 0001
 Qu, Zhiyong Harbin Institute of Technology, China
 Yao, Yu Harbin Institute of Technology, China

3:15
Performance bounds analysis for hybrid estimation [#083] 0001
 Yang, Xiaojun Northwestern Polytechnical University, China
 Pan, Quan Northwestern Polytechnical University, China
 Zhang, Hongcai Northwestern Polytechnical University, China

3:15
Joint estimation of parameter and dynamic state based on particle filtering and stochastic approximation [#491] 0001
 Yang, Xiaojun Northwestern Polytechnical University, China

3:15
Low frequency oscillation analysis and damping based on prony method and sparse eigenvalue technique [#378] 0001
 Ye, Hua Shandong University, China
 Liu, Yutian Shandong University, China
 Liu, Xinsheng Shandong University, China

3:15
A UWB signal design method in indoor environment with

3:15	<i>A velocity-separation difference model for car-following theory</i> [#390]	0001	<i>measure model of energy</i> [#409]	0001
	Li, Zhipeng	Shanghai Jiaotong University, China	Ruan, Aiqing	Nanjing University of Aeronautics and Astronautics, China
	Gong, Xiaobo	Shanghai Jiaotong University, China	Liu, Sifeng	Nanjing University of Aeronautics and Astronautics, China
	Liu, Yuncai	Shanghai Jiaotong University, China	Fang, Zhigeng	Nanjing University of Aeronautics and Astronautics, China
3:15	<i>Spinning reserve from responsive load via intelligent energy management network</i> [#593]	0001	Xu, Xiangmin	Nanjing University of Aeronautics and Astronautics, China
	Zhao, Qingqi	Northeastern University, China		
	Li, Ming	Northeastern University, China		
	Zhang, Huaguang	Northeastern University, China		
3:15	<i>A communication model for smart vehicle multi-agent system</i> [#588]	0001		
	Yang, Guoqing	Zhejiang University, China		
	Wu, Zhaohui	Zhejiang University, China		
	Li, Xiumei	Zhejiang University, China		
	Zhao, Minde	Zhejiang University, China		
3:15	<i>On adhesion force of mems micro-cantilever with rough surfaces</i> [#110]	0001		
	Tian, Wenchao	Xidian University, China		
	Jia, Jianyuan	Xidian University, China		
	Chen, Guangyan	Southwest Institute of Electronic Engineering, China		
3:15	<i>Fabrication of integrated chemical field-effect transistor humidity sensor array and signal processing using artificial neural network</i> [#070]	0001		
	Tai, Hui	University of Electronic Science and Technology of China		
	Jiang, Ya	University of Electronic Science and Technology of China		
	Xie, Zhong	University of Electronic Science and Technology of China		
3:15	<i>Research on DALI and development of master-slave module</i> [#166]	0001		
	Zhang, Yuejun	Zhejiang University, China		
	Wu, Mingguang	Zhejiang University, China		
3:15	<i>Methodology of an automatic guidance system</i> [#232]	0001		
	Liu, Gang	China Agricultural University		
3:15	<i>Design and experimental analysis of a low-range overload-resistant capacitance accelerometer</i> [#462]	0001		
	Meng, Lifan	North University of China		
	Hua, Nicola	North University of China		
3:15	<i>Study on development kinetic energy of Chinese industry and</i>			

Late Afternoon Technical Sessions	
4:00 – 5:40, Tuesday, April 25, 2006	
TP01	Room: Saloon B
Tracking and Localization	Lecture Session
Chair: Rozenblit, Jerzy	University of Arizona
Co-Chair: Chen, Zhixiong	Mercy College

4:00	<i>Tracking using decentralized multi-modality wireless sensor network</i> [#367]	0001
	Yang, Lizhi	University of Arizona
	Feng, Chuan	University of Arizona
	Peng, Jianfeng	University of Arizona
	Rozenblit, Jerzy	University of Arizona
4:20	<i>Gauss-Markov based fluid model and location management for PCS systems</i> [#529]	0001
	Li, Demin	Donghua University, China
	Zhou, Jie	Donghua University, China
	Wang, Jiacun	Monmouth University
4:40	<i>Rigid body based location technology for ad hoc sensor networks</i> [#519]	0001
	Niu, Feng	Motorola, USA
	Kyperountas, Spyros	Motorola, USA
	Shi, Qicai	Motorola, USA
	Huang, Jian	Motorola, USA
5:00	<i>A dynamic sensor selection and allocation approach for Markov localization</i> [#490]	0001
	Zhang, Weihong	Rensselaer Polytechnic Institute
5:20	<i>Service fault localization using probing technology</i> [#584]	0001
	Chen, Zhixiong	Mercy College

TP02 Room: Saloon A
Collaborative Systems Lecture Session

Chair: Zhu, Haibin Nipissing University, Canada
Co-Chair: Hu, Jianghai Purdue University

4:00
Probabilistic map building by coordinated mobile sensors
[#540] 0001
Hu, Jianghai Purdue University
Chen, Jen-Yeu Purdue University

4:20
Differential modulation schemes for cooperative diversity
[#329] 0001
Cho, Woong University of Florida
Yang, Liuqing University of Florida

4:40
Implementing agent evolution with roles in collaborative systems [#246] 0001
Zhu, Haibin Nipissing University, Canada
Liu, Linyuan Nipissing University, Canada

5:00
Mobile agent migration algorithms for collaborative processing [#532] 0001
Xu, Yingyue University of Tennessee
Qi, Hairong University of Tennessee

5:20
General methodology for action-oriented industrial ecology–Complex systems approach applied to the Rotterdam industrial cluster [#504] 0001
Nikolic, Igor Delft University of Technology
The Netherlands
Dijkema, Gerard Delft University of Technology
The Netherlands
Dam, Koen Delft University of Technology
The Netherlands
Lukszo, Zofia Delft University of Technology
The Netherlands

TP03 Room: Saloon C
Management of Production and Supply Chains Lecture Session

Chair: Zhang, Yunong National University of
Ireland, Maynooth
Co-Chair: Wang, Jiacun Monmouth University

4:00
Modelling and optimisation of downstream outsourcing supply chains with demand uncertainty [#494] 0001
Wang, Yingjun Staffordshire University, UK
Yu, Hongnian Staffordshire University, UK

4:20
GA and derivative derived generalized predictive control in reducing bullwhip effect [#325] 0001

Yu, Hongnian Staffordshire University, UK
4:40
Workflow management tool support for incident command systems [#599] 0001

Stoute, Michael Monmouth University
Wang, Jiacun Monmouth University
Rosca, Daniela Monmouth University

5:00
Modeling, analysis and design of complex quality testing systems using a hierarchical simulation framework [#546] 0001
Shrivastava, Abhishek Texas A&M University
Ding, Yu Texas A&M University
Coody, Jon Motorola, USA
Niu, Feng Motorola, USA
Ceglarek, Darek Motorola, USA

5:20
Towards a generic approach for analyzing the efficiency of complex networks [#503] 0001
Dam, Koen Delft University of Technology
The Netherlands
Nikolic, Igor Delft University of Technology
The Netherlands
Lukszo, Zofia Delft University of Technology
The Netherlands
Dijkema, Gerard Delft University of Technology
The Netherlands

End of the conference, 5:40 PM

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