

Conference Schedule

September 26, 2010				
08:30 09:20	Opening Room A (in Taiyuan University of Science and Technology)			
09:20 10:20	Keynote Speech I Room A (in Taiyuan University of Science and Technology)			
10:20 10:40	Coffee Break			
10:40 11:40	Session A01 : Recent advances on Swarm-based Computing (1)	Session A02 : Recent Advances on Swarm-based Computing(2)	Session A03 : Theories and Applications for Social Network Security and Intelligent Computation	
	Room A	Room B	Room C	
11:40 13:15	Lunch Restaurant (in Academic Exchange Center)			
13:15 15:15	Session A04 : Theories and Applications for Social Network Security	Session A05 : Fast Logic Computation, Ontologies and Multi-valued Logic in Semantic Networks	Session A06 : Middleware and Component Technology	Session P01 : Poster Session (01)
	Room A	Room B	Room C	Room P
15:15 15:40	Coffee Break			
15:40 17:40	Session A07 : Pattern Analysis and Optimization & Multimedia Information Processing	Session A08 : Complex Networks and Granular Computing	Session A09 : Intelligent System and Evolutionary Algorithms	Session P02 : Poster Session (02)
	Room A	Room B	Room C	Room P
17:40 20:00	Dinner Restaurant (in Academic Exchange Center)			

September 27, 2010				
08:30 09:20	Keynote Speech II Room A (in Taiyuan University of Science and Technology)			
09:20 10:20	Keynote Speech III Room A (in Taiyuan University of Science and Technology)			
10:20 10:40	Coffee Break			
10:40 11:40	Session B01 : Applications in Smart Home	Session B02 : Business Management Application and Fuzzy Logic	Session B03 : Application of Intelligent Computation & Neural Networks and Connectionist Models	Session B10 : Wireless Sensor Network and Internet Technique
	Room A	Room B	Room C	Room P
11:40 13:15	Lunch Restaurant (in Academic Exchange Center)			
13:15 15:15	Session B04 : The Synergy between AI and Brain Science	Session B05 : Image Processing/Pattern Recognition(1)	Session B06 : Image Processing/Pattern Recognition (2)	Session P03 : Poster Session (03)
	Room A	Room B	Room C	Room P
15:15 15:40	Coffee Break			
15:40 17:40	Session B07 : Knowledge Management & Technical Innovation and Network based System Design	Session B08 : Neural Networks and Connectionist Models	Session B09 : Neural Networks and Connectionist Models & Network based System Design	Session P04 : Poster Session (04)
	Room A	Room B	Room C	Room P
17:40 20:00	Banquet Restaurant (in Academic Exchange Center)			

September 28, 2010				
Travelling				



International Conference on Computational Aspects of Social Networks 2010

September 26-28, Taiyuan, China
<http://www1.tyust.edu.cn/cason/> (Taiyuan)
<http://bit.kuas.edu.tw/~cason10/> (Taiwan)

Conference Program

September 25, 2010

Registration (Academic Exchange Center)	14:00-21:00
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September 26, 2010

Registration	08:00-17:30
Opening	08:30-09:20
Keynote Speech I	09:20-10:20
Coffee Break	10:20-10:40
Session A01-A03	10:40-11:40
Lunch	11:40-13:15
Session A04~A06	13:15-15:15
Poster Session P01	13:15-15:15
Coffee Break	15:15-15:40
Session A07~A09	15:40-17:40
Poster Session P02	15:40-17:40
Dinner	17:40-20:00

September 27, 2010

Registration	08:00-17:30
Keynote Speech II	08:30-09:20
Keynote Speech III	09:20-10:20
Coffee Break	10:20-10:40
Session B01-B03, B10	10:40-11:40
Lunch	11:40-13:15
Session B04~B06	13:15-15:15
Poster Session P03	13:15-15:15
Coffee Break	15:15-15:40
Session B07~B09	15:40-17:40
Poster Session P04	15:40-17:40
Banquet	17:40-20:00

September 28, 2010

Travelling

Session List

September 26, 2010, 10:40-11:40

- A01 : Recent advances on Swarm-based Computing (1)
- A02 : Recent advances on Swarm-based Computing (2)
- A03 : Theories and Applications for Social Network Security and Intelligent Computation

September 26, 2010, 13:15-15:15

- A04 : Theories and Applications for Social Network Security
- A05 : Fast Logic Computation, Ontologies and Multi-valued Logic in Semantic Networks
- A06 : Middleware and Component Technology
- P01 : Poster Session (01)

September 26, 2010, 15:40-17:40

- A07 : Pattern Analysis and Optimization & Multimedia Information Processing
- A08 : Complex Networks and Granular Computing
- A09 : Intelligent System and Evolutionary Algorithms
- P02 : Poster Session (03)

September 27, 2010, 9:50-11:50

- B01 : Applications in Smart Home
- B02 : Business Management Application and Fuzzy Logic
- B03 : Application of Intelligent Computation & Neural Networks and Connectionist Models
- B10 : Wireless Sensor Network and Internet Technique

September 27, 2010, 13:15-15:15

- B04 : The synergy between AI and Brain Science
- B05 : Image Processing/Pattern Recognition (1)
- B06 : Image Processing/Pattern Recognition (2)
- P03 : Poster Session (03)

September 27, 2010, 15:40-17:40

- B07 : Knowledge Management & Technical Innovation and Network based System Design
- B08 : Neural Networks and Connectionist Models
- B09 : Neural Networks and Connectionist Models & Network based System Design
- P04 : Poster Session (04)

A01

Recent advances on Swarm-based Computing (1)

Session Chairs: Prof. Zhihua Cui, Taiyuan University of Science and
Technology, China

Prof. Li-Ping Xie, Taiyuan University of Science and
Technology, China

A01-01,CASoN-2010-IS02-02

Nonlinear Time-Varying Stability Analysis of Particle Swarm Optimization

Wei-Bing Fan, Zhi-Hua Cui, Yong-Jing Chen, and Ying Tan

Taiyuan University of Science and Technology, China

A01-02,CASoN-2010-IS02-03

Using Hungry Particle Swarm Optimization to Direct Orbits of Chaotic Systems

Xing-Juan Cai and Zhi-Hua Cui

Taiyuan University of Science and Technology, China

A01-03,CASoN-2010-IS02-04

Social Cognitive Optimization Algorithm with Reactive Power Optimization of Power System

Zhan-Hong Wei, Zhi-Hua Cui and Jian-Chao Zeng

Taiyuan University of Science and Technology, China

A01-04,CASoN-2010-IS02-05

NW-based Particle Swarm Optimization

Xiao-Bo Zhou

Taiyuan University of Science and Technology, China

A01-05,CASoN-2010-IS02-06

A Hybrid Vector Artificial Physics Optimization with One-Dimensional Search Method

Gang-Jun Yang, Li-Ping Xie, Ying Tan, and Jian-Chao Zeng

Taiyuan University of Science and Technology, China

A01-06,CASoN-2010-IS02-07

Particle Swarm Optimization Based on Self-organizing Topology Driven by Fitness

Si-Min Mo, Jian-Chao Zeng, and Ying Tan

Lanzhou University of Technology, China

A02

Recent advances on Swarm-based Computing (2)

Session Chairs: Prof. Li-Chao Chen, Taiyuan University of Science and Technology, China

Dr. Jin-Xia Liu, Lanzhou University of Technology, China

A02-01,CASoN-2010-IS02-08

Community Detection Based on Modularity Density and Genetic Algorithm

Jin-Xia Liu and Jian-Chao Zeng

Lanzhou University of Technology, China

A02-02,CASoN-2010-IS02-09

The Researching and Modeling of a Multi-Agent Based Group Awareness Model

Lin-Xia Yan

Taiyuan University of Science and Technology, China

A02-03,CASoN-2010-IS02-10

Intelligent Operation Parameters Optimization for Screw Conveyor Based on PSO

Jiang-Hui Cai and Wen-Jun Meng

Taiyuan University of Science and Technology, China

A02-04,CASoN-2010-IS02-11

Research on Optical Fiber Methane Gas Sensor of Spectral Absorption Type

Xiao-Mei Yan, Ji-Long Zhang, and Zhi-She Wang

Taiyuan University of Science and Technology, China

A02-05,CASoN-2010-IS02-12

Demand Forecasting Based on Internet of Things

Jian-Ping Qiu and Li-Chao Chen

Taiyuan University of Science and Technology, China

A02-06,CASoN-2010-IS02-14

A Component Clustering Algorithm Based on Semantic Similarity and Optimization

Ying-Jun Zhang, Yao-Peng Ren, Li-Chao Chen, and Bin-Hong Xie

Taiyuan University of Science and Technology, China

A03

Theories and Applications for Social Network Security and Intelligent
Computation

Session Chairs: Prof. Tianhua Liu, Shenyang Normal University, China
Prof. Hongfeng Zhu, Shenyang Normal University,
China

A03-01, CASoN-2010-IS05-01

***An ID-based Multi-server Authentication with Key Agreement Scheme without
Verification Table on Elliptic Curve Cryptosystem***

Tian-Hua Liu, Hong-Feng Zhu

Shenyang Normal University, China

A03-02, CASoN-2010-IS05-02

A Novel Method to Characterize Unwanted Email Traffic

Yang Sun and Hong-Feng Zhu

Shenyang Normal University, China

A03-03, CASoN-2010-IS05-03

***An Efficient Intrusion Detection and Prevention System Against SIP Malformed
Messages Attacks***

Hong-Bin Li, Hu Lin, Hui-Chao Hou, and Xue-Hua Yang

Shenyang Institute of Computing Technology, China

A03-04, CASoN-2010-IS05-05

***Improving Network Security and Performance by Multipath Routing in Ad Hoc
Networks***

Shi-Dong Yu, Hang Li, Hong-Feng Zhu, and Chen Wang

Shenyang Normal University, China

A03-05, CASoN-2010-0067

***Quantum Algorithms and Mathematical Representation of Bio-molecular Solutions
for the Clique Problem in a Finite-dimensional Hilbert Space***

Weng-Long Chang, Ting-Ting Ren, Mang Feng, Jun Luo, Kawuu Weicheng Lin,

Minyi Guo, Lai-Chin Lu, Chih-Chiang Wang, and Gwo-Jia Jong

National Kaohsiung University of Applied Sciences, Taiwan

A03-06, CASoN-2010-0073

Quantum Algorithms and Mathematical Representation of Bio-molecular Solutions

for the Hitting-set Problem on a Quantum Computer

Weng-Long Chang, Ting-Ting Ren, Mang Feng, Jun Luo, Kawuu Weicheng Lin,
Minyi Guo, Lai-Chin Lu, Gwo-Jia Jong, and Chih-Chiang Wang
National Kaohsiung University of Applied Sciences, Taiwan

A03-07, CASoN-2010-0153

Study of Power System Short-term Load Forecast Based on Artificial Neural Network and Genetic Algorithm

Xin-Hui Du, Feng Tian, and Shao-Qiong Tan
Taiyuan University of Technology, China

A03-08, CASoN-2010-0159

Application of Neural Network and Support Vector Machines to Power System Short-term Load Forecasting

Xin-Hui Du, Liang Wang, Jian-Cheng Song, and Yan Zhang
Taiyuan University of Technology, China

A03-09, CASoN-2010-0282

The Application of Particle Swarm Optimization to Solving Nonlinear Equations

Zhi-Hong Shuang
Taiyuan University of Science and Technology, China

A03-10, CASoN-2010-0626

Application of Maintaining the Shortest Path Method in the Game Map Path-Finding

Zheng-Hong Hu and Jin Li
Taiyuan Normal University, China

A04

Theories and Applications for Social Network Security

Session Chairs: Prof. Xuan Ding, Tsinghua University, China

Prof. Wei Wang, Tsinghua University, China

A04-01,CASoN-2010-IS05-07

An Improved Tree-Based Distribution Group Key Agreement Protocol

Cheng-Zhe Li, Hong-Feng Zhu, and Tian-Hua Liu

Shenyang Normal University, China

A04-02,CASoN-2010-IS05-09

Application of Trusted Boundary Based on Port Trust Value in Campus Area Network

Ning Jiang, Lian-Cheng Shan, Hong-Feng Zhu, and Jian Yu

Shenyang Normal University, China

A04-03,CASoN-2010-IS05-10

A New Algorithm of Image Segmentation based on Bidirectional Search Pulse-Coupled Neural Network

Liu Yang and Kang Lei

Shenyang University, China

A04-04,CASoN-2010-IS05-11

Multi-sensor image fusion algorithm based on NSCT and PCNN

Chen Yao and Kang Lei

Shenyang University, China

A04-05, CASoN-2010-0210

A Core-based Community Detection Algorithm for Networks

Wei Wang and Chun-Ping Li

Tsinghua University, China

A04-06, CASoN-2010-0414

A Brief Survey on De-anonymization Attacks in Online Social Networks

Xuan Ding, Lan Zhang, Zhiguo Wan, and Ming Gu

Tsinghua University, China.

A04-07, CASoN-2010-0464

Network Design and Implementation of the Emote Dynamic Monitoring System on Servicing Tower Cranes

Chon-Gren Gao, Yu-Feng Yin, Yu-Xi Han, and Guang Zeng
Taiyuan University of Science and Technology, China

A04-08, CASoN-2010-0494

A New Network Collaborative Manufacturing Based on the STEP-NC

Jian-Hua Han, Juan Du, and Xian-Guo Yan

Taiyuan University of Science and Technology, China

A04-09, CASoN-2010-0522

Research on the Evolutionary Mechanism of Social Network Based on Competitive Selection

Jin-Tao Lu, Li-Cheng Ren, Yin-Pu Yao, and Guang-Dong Xu

Taiyuan University of Science and Technology, China

A04-10, CASoN-2010-0612

Network Analysis of Underground Transportation Hub Safety Monitoring System

Jia Wang, Shu-Feng Liu, Zhi-Xin Chen, and Xiao-Hui Wang

Beijing University of Civil Engineering and Architecture, China

A05

Fast Logic Computation, Ontologies and Multi-valued Logic in Semantic Networks

Session Chairs: Prof. Jim-Min Lin, Ching Yun University, Taiwan

Prof. Chiou-Yng Lee, Lunghwa University of Science and Technology, Taiwan

A05-01, CASoN-2010-IS06-01

Concurrent Error Detection in Systolic Array AB^2 Multiplier using Linear Codes

Chiou-Yng Lee

Lunghwa University of Science and Technology, Taiwan

A05-02, CASoN-2010-IS06-02

Fast Optimal Normal Basis Multiplier with Type- 2^{kw} over $GF(2^m)$

Che-Wun Chiou, Jim-Min Lin, and Chiou-Yng Lee

Ching Yun University, Taiwan

A05-03, CASoN-2010-IS06-03

Indoor Service Robot with Multi-sensors Implementation on the MOM

Wen-Yo Lee Yun-Ter Su, and Ta-Chih Hung

Lunghwa University of Science and Technology, Taiwan

A05-04, CASoN-2010-IS06-04

A Large Payload EMD Embedding Scheme with High Stego-image Quality

Kuo-Nan Chen, Chin-Chen Chang, and Huang-Ching Lin

National Chung Cheng University, Taiwan

A05-05, CASoN-2010-0162

The Temporal Description Logic TL-SI and its Decidability Algorithm

Kun Hu, Xue-Li Yu, Zhi Li, and Hong-Kang Zhu

Taiyuan University of Technology, China

A05-06, CASoN-2010-0331

Research on Services Matching and Ranking Based on Fuzzy QoS Ontology

Hong-Kang Zhu, Xue-Li Yu, Guang-Ping Zhuo, and Kun Hu

Taiyuan University of Technology, China

A05-07, CASoN-2010-0378

Research and Application on Integration Model of Coal Scientific Data Based on

Ontology

Yue-Dong Lv, Li-Chao Chen, and Yong-Yi Guo

Taiyuan University of Science and Technology, China

A05-08,CASoN-2010-0497

A Web Service Matchmaker Based on Fuzzy Logic and OWL-S

Bin-Hong Xie, Ying-Jun Zhang, and Yong-Yi Guo

Taiyuan University of Science and Technology, China

A06

Middleware and Component Technologies

Session Chairs: Prof. Zhou Chuan-Sheng, Shenyang Normal University,
China

Prof. Xiao-Fei An, Shenyang Normal University, China

A06-01, CASoN-2010-IS07-01

Research on Component Based Online Shopping System Design

Chuan-Sheng Zhou and Li-Hua Niu

Shenyang Normal University, China

A06-02, CASoN-2010-IS07-02

Research on UML State Diagram Based Component Test System

Chuan-Sheng Zhou

Shenyang Normal University, China

A06-03, CASoN-2010-IS07-03

Design of Message-Oriented Middleware of Distance Teaching Platform Based on Distributed Message Control

Xiao-Fei An and Li-Ying Bian

Shenyang Normal University, China

A06-04, CASoN-2010-IS07-04

Research on Application of Philosophy in Programming

Shi-Chang Hu and Jian Yu

Shenyang Normal University, China

A06-05, CASoN-2010-IS07-05

Research on Orthogonal Relation Decomposition and Object Design

Shi-Chang Hu and Jian Yu

Shenyang Normal University, China

A06-06, CASoN-2010-IS07-06

Research on Object Programming Methodology

Shi-Chang Hu and Jian Yu

Shenyang Normal University, China

A06-07, CASoN-2010-IS07-07

An Algorithm of Detection Duplicate Information Based on Segment

Zhe Liu and Zhi-Gang Zhao
Shenyang Normal University, China

P01

Poster Session (01)

P01-01, CASoN-2010-IS02-01

Analysis the Uncertainties of the Ant Colony Algorithm

Yi Zhang, Meng Zhang, and Xin-Yan Cao

Jilin Business and Technology College, China

P01-02, CASoN-2010-IS02-13

A Constructing Method of Decision Tree and Classification Rule Extraction for Incomplete Information System

Hai-Feng Yang, Zhi-Hai Xu, Ji-Fu Zhang, and Jiang-Hui Cai

Taiyuan University of Science and Technology, China

P01-03, CASoN-2010-0133

Clock Synchronization Method for Star-Structure Wireless Sensor Network

Xiao-Fang Li, Chun-Bo Chang, and Wen-Hua Gao

Taiyuan University of Science and Technology, China

P01-04, CASoN-2010-0190

Two-phase Particle Swarm Optimization with Scale-free Network Model

Hua-Ping Mu, Chang-Yi Jiao, and Jian-Chao Zeng

Hebi College of Vocation and Technology, China

P01-05, CASoN-2010-IS05-04

A Robust and Efficient Password-authenticated Key Agreement Scheme without Verification Table Based on Elliptic Curve Cryptosystem

Hong-Feng Zhu and Tian-Hua Liu

Shenyang Normal University, China

P01-06, CASoN-2010-IS05-06

An Enhanced PID Based Active Queue Management Algorithm

Chi-Min Zhou, Li-Guo Deng and Jing Zhao

Chengdu University, China

A07

Pattern Analysis and Optimization & Multimedia Information processing
Session Chairs: Prof. Xue-Mei Yang, Xianyang Normal University, China
Prof. Hua-Li Zhao, Xidian University, China

A07-01, CASoN-2010-IS12-04

An Improved Method of Location of the Circular Target

Qin Li, Fei-Peng Da, and He-Ming Huang

Southeast University, China

A07-02, CASoN-2010-IS12-07

A Predictor-corrector Smoothing Newton Method for Solving the Second-order Cone Complementarity

Hua-Li Zhao and Hong-Wei Liu

Xidian University, China

A07-03, CASoN-2010-IS12-09

Prediction of O-Glycosylation Sites in Protein Sequence by Kernel Principal Component Analysis

Xue-Mei Yang, Xue-Wei Cui, and Xue-Zhu Yang

Xianyang Normal University, China

A07-04, CASoN-2010-0399

Research on Temperature Field Measuring of Oxygen Propane

Rui-Ping Zhang

Taiyuan University of Science and Technology, China

A07-05, CASoN-2010-0500

Joint Temporal-Spatial Error Concealment for Multiple Description Video Coding

Hui-Hui Bai, An-Hong Wang, Meng-Meng Zhang, and Xiao-Ming Guo

Beijing Jiaotong University, China

A07-06, CASoN-2010-0536

An Improved Unsupervised Learning of Motion Estimation Based on Diamond Searching for Distributed Video Coding

Hai-Fang Wang and An-Hong Wang

Taiyuan University of Science and Technology, China

A07-07, CASoN-2010-0546

FDCT-Based Digital Watermarking Algorithm for Gray Images

Jiang Yu, Lin-sheng Li, An-Hong Wang, and Qi-Chuan Tian
Taiyuan University of Science and Technology, China

A07-08,CASoN-2010-0615

***A Multiple Direction Information Transmission Interface For Multi-transport Hub
In ISCS Networks***

Lei Zhang, Xin Chen, Zhi-Xin Chen, and Jia Wang
Beijing University of Civil Engineering and Architecture, China

A07-09,CASoN-2010-0631

An Improved Dynamic XML Encoding Scheme Applied in Map Information

Guang-Xing Guo, Gui-Mei Yin, and Jin Li
Taiyuan Normal University, China

A08

Complex networks and Granular Computing

Session Chairs: Prof. Zhen Jin, North University of China, China

Prof. Gang Xie, Taiyuan University of Technology, China

A08-01, CASoN-2010-IS09-01

Monotonicity of Eventually Positive Solutions for a Second Order Nonlinear Difference Equation

Hui-Qin Chen and Zhen Jin

Datong University, China

A08-02, CASoN-2010-IS09-03

Analysis of A Delayed SIR Epidemic Model

Jin-Zhu Zhang, Jian-Jun Wang, Tie-Xiong Su, and Zhen Jin

North University of China, China

A08-03, CASoN-2010-IS10-01

ROI of HRCT Enhancement and De-noising Based on Rough Set

Gang Xie, Cheng-Dong Yan, Tian-Rui Cao, and Fang Wang

Taiyuan University of Technology, China

A08-04, CASoN-2010-IS10-04

Solving 0-1 Knapsack Problem Based on Rough Set Theory

Zhi-Jun Zhang, Yan Wu, and Gao-Wei Yan

Taiyuan University of Technology, China

A08-05, CASoN-2010-IS10-05

Granular Computing Reduction Method for SDG Model

Gang Xie, Wen Wang, and Ze-Hua Chen

Taiyuan University of Technology, China

A08-06, CASoN-2010-0096

A MEC-based Attribute Reduction Algorithm in Rough Sets

Jun-Qin Cao, Xiao-Song Li, and Jia-Peng Feng

Taiyuan University of Science and Technology, China

A08-07, CASoN-2010-0552

Optimization Model for Railway Freight Station Layout Based on Agent

Yan-Ping Du, Yun-Yun Zhao, Li-Min Jia, and Yong Qin

Beijing Jiaotong University, China

A09

Intelligent System and Evolutionary Algorithms

Session Chairs: Prof. Chung C. Chang, Chinese Culture University,
Taiwan

Dr. Chao-Li Sun, Taiyuan University of Science and
Technology, China

A09-01, CASoN-2010-IS11-01

***Applying Web Service Technology to Build a Wireless LAN Problem Diagnosis
Expert System***

Chung C. Chang and Shih-Chieh Hsieh

Chinese Culture University, Taiwan

A09-02, CASoN-2010-IS11-02

***An e-Learning System for Information Management Education Based on Web
Services***

Chung C. Chang and Kou-Chan Hsiao

Chinese Culture University, Taiwan

A09-03, CASoN-2010-IS11-03

Evaluating Nearest-Neighbor Queries Based on Uncertainty Model

Mei-Tzu Wang

Chinese Culture University, Taiwan

A09-04, CASoN-2010-IS11-04

***Integrating Multiple Linear Regression and Multicriteria Collaborative Filtering
for Better Recommendation***

Chein-Shung Hwang, Yu-Cheng Kao, and Ping Yu

Chinese Culture University, Taiwan

A09-05, CASoN-2010-IS11-05

***Effects of Computer Game-based Instruction on Students' Programming
Achievement in Taiwan***

Chein-Shung Hwang, Yi-Ching Su and Kuo-Cheng Tseng

Chinese Culture University, Taiwan

A09-06, CASoN-2010-0009

A new Electromagnetism-like Algorithm with Chaos Optimization

Qing-Hua Wang, Jian-Chao Zeng, and Wei-Ping Song

Taiyuan University of Science & Technology, China

A09-07,CASoN-2010-0255

Path Planning of Soccer Robot Based on Artificial Immune Mechanics

Xiao-Song Li, Jun-Qin Cao, and Chun-Bo Chang

Taiyuan University of Science and Technology, China

A09-08,CASoN-2010-0339

***Multi-objective Hybrid Differential Evolution Algorithm Based on Pareto Pptimal
Solution Migration***

Xiao-Zhen Wang, Peng Li, and Guo-Yan Yu

Guangdong Ocean University, China

A09-09,CASoN-2010-0573

***Generalized Predictive Control of Nonlinear System Based on Mind Evolutionary
Algorithm***

Hong-ge Guo, Ke-Ming Xie, and Gang Xie

Taiyuan University of Technology, China

P02

Poster Session (02)

P02-01, CASoN-2010-IS05-08

Cell Image Segmentation Based on An Improved Watershed Transformation

Shu Li, Lei Wu and Yang Sun

China Medical University, China

P02-02, CASoN-2010-IS12-02

Iterative Methods of Common Fixed Points for Nonexpansive Mappings and Nonspreading Mappings

Le-Rong Ma and Xing-Hui Gao

Yanan University, China

P02-03, CASoN-2010-0309

The Innovative Design of an Outdoor Centrifugal Water Filter

Jing-Chen Xie

Chienkuo Technology University, China

P02-04, CASoN-2010-0405

A New SDV Anonymous Proxy Signature Scheme

Xiang Wang

Zhengzhou Information Science and Technology Institute, China

P02-05, CASoN-2010-IS12-03

Shrinking Projection Methods for Maximal Monotone Operators and Quasi- ϕ -nonexpansive Mappings

Xing-Hui Gao and Le-Rong Ma

Yanan University, China

P02-06, CASoN-2010-IS12-06

A Hybrid Harmony Search Algorithm for Numerical Optimization

Peng-Jun Zhao

Shangluo University, China

B01

Applications in Smart Home

Session Chairs: Prof. Chun-Lin Lu, Kun Shan University, Taiwan
Prof. Kuo-Sheng Cheng, National Cheng Kung
University, Taiwan

B01-01, CASoN-2010-IS08-01

A Peer-to-Peer Home Service Infrastructure Based on OSGi Event Admin

Chung-Fan Liu and Chun-Lin Lu

Kun Shan University, Taiwan

B01-02, CASoN-2010-IS08-02

Analysis of the EM Field Distribution in Smart Home

Churng-Jou Tsai, Bo-Yuan Tsai, Jinn-Kwei Guo, Yu-Sheng Lin, and Yeong-Her Wang

Kun Shan University, Taiwan

B01-03, CASoN-2010-IS08-03

Device Synchronization for the Light Control in ZigBee Networks

Jinn-Kwei Guo, Churng-Jou Tsai, Chun-Lin Lu and Chang-Fan Liu

Kun Shan University, Taiwan

B01-04, CASoN-2010-IS08-04

A Web-based Light Electric Vehicle for Homecare Use – A Pilot Study

Kuo-Sheng Cheng, Deng-Chuan Cai, Tsorng-Juu Liang, Meng-Hui Hsu, Chun-Lin Lu,
Ji-Jer Huang, and Dong-Her Shih

National Cheng Kung University, Taiwan

B01-05, CASoN-2010-IS08-05

Design of Interactive e-Care Dining Table for Smart kitchen

Ling-Erl Cheng, Chao-Hsiung Tseng, and Chun-Lin Lu

Kun Shan University, Taiwan

B01-06, CASoN-2010-IS08-06

A Touch-Dim Network for the Dimming Control of Lighting System

Jyh-Ching Juang, Hung-Chi Wang, Chun-Lin Lu, Wen-Ming Chen, and Ching-Wen
Hsu

National Cheng Kung University, Taiwan

B02

Business Management Application and Fuzzy Logic

Session Chairs: Prof. Jui-Fang Chang, National Kaohsiung University of Applied Sciences, Taiwan

Prof. Chun-Wei Lu, the International University of Kagoshima, Japan

B02-01, CASoN-2010-IS13-01

Applying TOPSIS Method to Evaluate the Business Operation Performance of Vietnam Listing Securities Companies

Tien-Chin Wang, Jui-Fang Chang, Truong Ngoc Anh, Wan-Tseng Chang

National Kaohsiung University of Applied Sciences, Taiwan

B02-02, CASoN-2010-IS13-02

Evaluation of Efficiency of Capital Sources Utilization and Company Performance of E-Life Mall in Kaohsiung City Based on Data Envelopment Analysis

Jung-Fang Chen, Pei-Yu Hsieh, and His-Wen Chen

National Kaohsiung University of Applied Sciences, Taiwan

B02-03, CASoN-2010-IS13-03

Using Genetic Algorithms to Construct a Low-risk Fund Portfolio Based on the Taiwan 50 Index

Jui-Fang Chang, Tien Chin Wang, and Yuan-Tzu Min

National Kaohsiung University of Applied Sciences, Taiwan

B02-04, CASoN-2010-IS13-04

Foreign Direct Investments by Japanese Manufacturers in Vietnam-Domestic Management and Collaboration

Chun-Wei Lu and Zhong-Min Wen

The International University of Kagoshima, Japan

B02-05, CASoN-2010-0046

Static and Dynamic Approach of Social Roles Identification Using PISNA and Subgraphs Matching

Radosław Brendel and Henryk Krawczyk

Gdansk University of Technology, Poland

B02-06, CASoN-2010-0395

Algorithm of Fuzzy PID Parameters Self tuning and its realization in PLC System

Hong-Bing Liu

University of Science & Technology of Taiyuan, China

B02-07,CASoN-2010-0409

A Linear Interpolation Fuzzy Controller with NN Compensator for an Electro-hydraulic Servo System

Yan-Hong Bai, Zhi-Yi Sun, Long Quan, and Shao-Juan Yu

Taiyuan University of Science and Technology, China

B02-08,CASoN-2010-0634

Fuzzy Interpolative Reasoning Based on the Footprints of Uncertainty of Interval Type-2 Fuzzy Sets

Shyi-Ming Chen and Yu-Chuan Chang

National Taiwan University of Science and Technology, Taiwan

B03

Application of Intelligent Computation & Neural Networks and Connectionist Models

Session Chairs: Prof. Wan-liang Wang, Zhejiang University of Technology, China
Prof. Jing Jie, Zhejiang University of Technology, China

B03-01, CASoN-2010-IS15-02

A Hybrid Discrete Particle Swarm Optimization for Job Shop Scheduling

Wan-Liang Wang, Jing Zhang, Xin-Li Xu, Jing Jie, and Hai-Yan Wang
Zhejiang University of Technology, China

B03-02, CASoN-2010-IS15-04

A Coverage Enhancement Method of Directional Sensor Network Based on Genetic Algorithm for Occlusion-Free Surveillance

Yi-Bo Jiang, Jin-Wei Yang, Wei-Jie Chen, and Wan-Liang Wang
Zhejiang University of Technology, China

B03-03, CASoN-2010-IS15-05

PFL: Proactive Fuzzy-logic-based AQM Algorithm for Best-effort Networks

Wei-Jie Chen, Wan-Liang Wang, Yi-Bo Jiang, Gui-Sen Li, and Qing-Li Chen
Zhejiang University of Technology, China

B03-04, CASoN-2010-IS15-06

An Improved Cultural Particle Swarm Optimization Algorithm Based on Feedback Mechanism for Economic Load Dispatch Problems

Yali Wu and Li-Qing Xu
Xi'an University of Technology, China

B03-05, CASoN-2010-IS15-07

A Bi-swarm Particle Swarm Optimization with Cooperative Co-evolution

Huan-Huan Ji, Jing Jie, Jun-Ji Li, and Ying Tan
Taiyuan University of Science and Technology, China

B03-06, CASoN-2010-0430

A Speech Recognition System Based on Fuzzy Neural Network Optimized by Time Variant PSO

Ai-Ping Ning, Xue-Ying Zhang, and Hui Sun
Taiyuan University of Technology, China

B03-07,CASoN-2010-0453

A Bi-direction Guard System Design of Car Based on GPS and GSM

Qingcai Huang, Donghong Li, and Qingyun Huang
Taiyuan University of science and technology, China

B03-08,CASoN-2010-0585

Social Network Reduction Based on Stability

Milos Kudelka, Zdenek Horak, Snasel Vaclav, and Abraham Ajith
VSB Technical University Ostrava, Czech Republic

B03-09,CASoN-2010-0600

Fuzzy Probability-based Landscape Prediction Model and Application

Jing Shen, Zhen-Shan Lin, and Liang He
Nanjing Normal University, China

B03-10,CASoN-2010-0605

Two-dimensional Exponential Discriminant Analysis and Its Application to Face Recognition

Li-Jun Yan and Jeng-Shyang Pan
Harbin Institute of Technology, China

B10

Wireless sensor network and Internet technique

Session Chairs: Prof. Liang Shurui, Beijing University of Posts and
Telecommunications, China

Prof. Mu-Ling Tian, Taiyuan University of Technology,
China

B10-01,CASoN-2010-0034

The virtual Instrument based on labVIEW and Sound Card

Xian-Ling Zhao

Taiyuan University of Science and Technology, China

B10-02,CASoN-2010-0037

Design of Interactive System on Internet of Laboratory Center

Mu-Ling Tian, Xiu-Mei Jia, and Pei-Xiong Wu

Taiyuan University of Technology, China

B10-03,CASoN-2010-0060

A Modified AES Algorithm for the Platform of Smartphone

Liang Shurui, Liu Jie, Zhang Ru, and Wang Cong

Beijing University of Posts and Telecommunications, China

B04

The synergy between AI and Brain Science

Session Chairs: Prof. Prof. Jun-Jie Chen, Taiyuan University of
Technology, China

Dr. Lifang Wang, Taiyuan University of Science and
Technology

B04-01, CASoN-2010-IS16-01

Rule Restriction In Event Descriptive Unit Identify

Tao Guo, Jun-Jie Chen, and Hao Guo

Taiyuan University of Technology, China

B04-02, CASoN-2010-IS16-02

The study on Functional Connectivity between Frontal Eye Field and Other Brain Cortex in Visual Processing

Xiang Jie and Jun-Jie Chen

Taiyuan University of Technology, China

B04-03, CASoN-2010-IS16-03

A Chinese Synonyms Reduced Algorithm Based on Sememe Tree

Li-Guo Duan, Jun-Jie Chen, Hai-Fang Li, and Ai-Ping Li

Taiyuan University of Technology, China

B04-04, CASoN-2010-IS16-05

Rules Extraction from Neural Network Based on Immune Programming Algorithm

Ke-You Hu, Ling-Yan Liu, and Hai-Fang Li

Taiyuan University of Technology, China

B04-05, CASoN-2010-IS16-06

A Semi-Supervised Spectral Clustering Algorithm Based on Rough Sets

Hui-Qing Wang and Jun-Jie Chen

Taiyuan University of Technology, China

B04-06, CASoN-2010-IS16-08

A Proposal for an Abstract Model Building Using Inductive Logic Programming

Zhi Li, Xue-Li Yu, Zeng-Rong Liu, and Kun Hu

Taiyuan University of Technology, China

B04-07, CASoN-2010-IS16-09

Real-world Auditory Perception Based on Auditory Feature Binding

Guang-Ping Zhuo and Xue-Li Yu
Taiyuan University of Technology, China

B05

Image processing/Pattern recognition (1)

Session Chairs: Prof. Qichuan Tian, Taiyuan University of Science and
Technology, China

Prof. Yi-Ying Li, Xidian University, China

B05-01, CASoN-2010-IS17-01

***Directional Two-Dimensional Neighborhood Preserving Projection for Face
Recognition***

Yi-Ying Li, Qi-Chuan Tian, Quan-Xue Gao, and Jing Xu
Xidian University, China

B05-02, CASoN-2010-IS17-02

***Directional Multimode Subspace Analysis with Tensor Representation-Discriminant
Feature Extraction***

Quan-Xue Gao, Jun Hou, Xiu-Juan Hao, and Yi-Ying Li
Xidian University, China

B05-03, CASoN-2010-IS17-03

Palmpoint Classification Algorithm Based on Wavelet Multi-scale Analysis

Qi-Chuan Tian, Zi-Liang Li, Xu-Hui Sun, Rui-Shan Zong, and Min Wang
Taiyuan University of Science and Technology, China

B05-04, CASoN-2010-IS17-04

***An Intelligent Fusion Method of Sequential Images Based on Improved DS_mT for
Target Recognition***

Zhuang Miao, Yong-Mei Cheng, Quan Pan, Jun Hou, and Zhun-Ga Liu
Northwestern Polytechnical University, China

B05-05, CASoN-2010-IS17-05

Directional Principal Component Analysis for Image Matrix

Quan-Xue Gao, Yi-Ying Li, Ya-Min Liu, and Hai-Jun Zhang
Xidian University, China

B05-06, CASoN-2010-IS17-06

Compressive Sensing for DCT Image

Hui-Hui Bai, An-Hong Wang, Meng-Meng Zhang
Beijing Jiaotong University, China

B05-07, CASoN-2010-IS17-07

Distributed Video Coding Based on Conditional Entropy Hash

Zhi-Hong Li, An-Hong Wang, and Hai-Fang Wang

Taiyuan University of Science and Technology, China

B06

Image processing/Pattern recognition (2)

Session Chairs: Prof. Yao-Hong Qu , Northwestern Polytechnical
University, China

Prof. Renwang Song, Tai Yuan University of Science
and Technology, China

B06-01,CASoN-2010-IS17-08

***A Data Processing Method of Silicon Micro Structural Sensors Based on H_∞
Filtering Technology***

Yao-Hong Qu and Qi-Chuan Tian

Northwestern Polytechnical University, China

B06-02,CASoN-2010-IS17-10

Multi-UAV Cooperative Positioning Based on Delaunay Triangulation

Yao-Hong Qu and Qi-Chuan Tian

Northwestern Polytechnical University, China

B06-03,CASoN-2010-IS17-11

***A Study about Fuzzy Control Algorithm Base on Neural Networks Forecast Model
in Active Vibration Isolation Control System***

Ren-Wang Song and Lin-Ying Chen

Tai Yuan University of Science and Technology, China

B06-04,CASoN-2010-IS17-12

Faraday Cup Measurement for Beam Current in Ion Thruster

Lin-Ying Chen, Ren-Wang Song, and Hao-Cheng Jiang

Tai Yuan University of Science and Technology, China

B06-05,CASoN-2010-IS17-13

A PMSM Sliding-mode Control System Based-on Exponential Reaching Law

Shu-Zhen Zhang and Xiao-li Ma

Taiyuan University of Science and Technology, China

P03

Poster Session (03)

P03-01, CASoN-2010-IS12-08

A Snake Model Based on Improved Internal Energy

Hui Zhang, Yue-Ning Wu, and Huai-Ping Yan

Xianyang Normal University, China

P03-02, CASoN-2010-IS15-01

A Novel Hybrid Algorithm Based On Baldwinian Learning and PSO

Wan-Liang Wang, Li-Li Chen, Jing Jie, Hai-Yan Wang, Xin-Li Xu

Zhejiang University of Technology, China

P03-03, CASoN-2010-0322

A Wireless Ad Hoc Overlay Networks Indexing Mechanism Based on Petri Nets Theory

Zhang Li and Zhang Yang

Henan Polytechnic University, Jiaozuo China

P03-04, CASoN-2010-0446

G-LMBPNN: A New Fashion Color Prediction Model

Ye-Zhe Wu, Li Sun, and Jia-Jin Le

Donghua University, China

P03-05, CASoN-2010-IS15-03

An Improved Real Coded Quantum Genetic Algorithm and Its Applications

Xin-Li Xu, Jia-Ying Jiang, Jing Jie, Hai-Yan Wang, and Wan-Liang Wang

Zhejiang University of Technology, China

P03-06, CASoN-2010-IS18-02

Social Network Analysis of University Online Forum

Hui-Qing Niu

North University of China, China

B07

Knowledge Management & Technical Innovation and network based system design (1)

Session Chairs: Prof. Hong Chen, North University of China, China

Prof. Ai-Qin Zhang, Beijing Institute of Technology, China

B07-01,CASoN-2010-IS18-01

Applied Research on the Integration of Innovative Approaches and Decision-making Method Based on Engineering Technical Innovation Process

Ai-Qin Zhang, Guang-Ming Hou,Zhao-Hua Wang

Beijing Institute of Technology, China

B07-02,CASoN-2010-IS18-03

Research on the Relationships between Knowledge Potential Difference and Knowledge Transfer Based on the Knowledge Network of Enterprise , University and Research Institute

Yan-Hua Li and Hong Chen

North University of China, China

B07-03,CASoN-2010-IS18-04

Organization Construction of the Knowledge Innovation Network involving Industry-Academia-Research

Xiang-Mei Zhu and Hong Chen

North University of China, China

B07-04, CASoN-2010-0517

Remote Monitoring System for Gas-combustion Generator Units Based on PowerBuilder

Mu-Qin Tian and Mu-Ling Tian

Taiyuan University of Technology, China

B07-05, CASoN-2010-0530

Computer Network System for Electrics and Electronics and Examination

Hui-Ying Chen and Mu-Qin Tian,

Taiyuan University of Technology, China

B07-06, CASoN-2010-0563

Close-loop Space Vector Control Scheme for Induction Motor Based on DSP

Zeying Zhi, Rucheng Han, and Long Zuo

Taiyuan University of Science and Technology, China

B07-07, CASoN-2010-0592

Fuzzy PID-type Iterative Learning Control for Electro-hydraulic Servo System

Shao-Juan Yu, Xu Ding, Lin Li, Feng Pan, Shi-Bo Xiong, and Yan-Hong Bai

Taiyuan University of Science and Technology, China

B07-08, CASoN-2010-0608

The Application of the Optimum of MDOD in Structure Design of Double Reels for Wrapped Hoist

Min-Jie Jin, Hua-Wei Li, Yan-Hua Xiong, and Jie Gao

Taiyuan University of Science and Technology, China

B07-09, CASoN-2010-0642

Communication in BAS Network System in Subway Station

Zhi-Xin Chen, Jia Wang, Chang-Gen Zhou, and Xiao-Hui Wang

Beijing University of Civil Engineering and Architecture, China

B07-10, CASoN-2010-0650

Design of a Nonlinear Power System Stabilizer

Jin-Ling Yang, Ru-Cheng Han, Shao-Juan Yu, and Ying-Jun Zhang

Taiyuan University of Science and Technology, China

B08

Neural Networks and Connectionist Models

Session Chairs: Prof. Xiao-Long Feng, China University of Mining and
Technology, China

Prof. Mei Song, Shanghai Jiaotong University, China

B08-01, CASoN-2010-0040

Study on Preview Control Theory for Trajectory Tracking Control

Xiao-Feng Liu, Mu-Qin Tian, Yong-Wei Lv, and Shu-Hua Wang

Taiyuan University of Technology, China

B08-02, CASoN-2010-0125

Wireless Mobile Monitoring System for Tram Rail Transport in Underground Coal Mine Based on WMN

Xiao-Long Feng, Jian-Sheng Qian, Zhen-Zhen Sun, and Xing Wang

China University of Mining and Technology, China

B08-03, CASoN-2010-0202

Efficient Packet Video Delivery over Heterogeneous Networks

Hai-Dong Wang and Fan Zhao

Taiyuan University of Science and Technology, China

B08-04, CASoN-2010-0245

Construction and Adoption of Net-enabled Credit Analysis Supporting System

(NCASS) Using Social Information Networks

Mei Song, Yao-Wen Xue, Pang-Zhu Zhang, and Hai-Ying Yuan

Shanghai Jiaotong University, China

B08-05, CASoN-2010-0289

Power Reduction of Wireless Sensor Networks Using Ant Colony Optimization

Hong-Chi Shih, Shu-Chuan Chu, Mao-Hsiung Hung, John F. Roddick, and

Jeng-Shyang Pan

National Kaohsiung University of Applied Sciences, Taiwan

B09

Neural Networks and Connectionist Models & Network based System Design

Session Chairs: Prof. Guo-Jun Liu, Peking University, China

Prof. Tian-Wu Liu, University of Science and Technology Beijing, China

B09-01,CASoN-2010-0336

Research on Predictive Functional Control in Flatness Feedback Control System of Hot Tandem Rolling

Tian-Wu Liu, Quan Yang, An-Rui He, Xiao-Zhong Du, Wen-Quan Sun, Xiao-Chen Wang, and Yun Zhang

University of Science and Technology Beijing, China

B09-02,CASoN-2010-0382

A Two-Degree-of-Freedom IMC Parameters Online Intelligent Tuning Method

Gao-Hua Chen, Jing-Gang Zhang, and Zhi-Cheng Zhao

Taiyuan University of Science & Technology, China

B09-03,CASoN-2010-0386

Large-Scale Social Network Analysis Based on MapReduce

Guo-Jun Liu, Ming Zhang, and Fei Yan

Peking University, China

B09-04, CASoN-2010-0166

Application of Improved Empirical Mode Decomposition Based on Grey Prediction in Gear Transmission System

Tie-Mei Yang

Taiyuan university of science and technology, China

B09-05,CASoN-2010-0172

Design of Wireless Sensor Networks Node applied to Acquisition and Transmission of Vibration Signals

Xiao-Yan Xiong, Zhao Wang, Bing Wu, and Dong-Bing Chen

Taiyuan University of Technology, China

B09-06,CASoN-2010-0182

The Numerical Analysis and Tests of the Special Structures

Li-Ping Yang and Ying Wu

Taiyuan University of Technology, China

B09-07,CASoN-2010-0186

Simulation of Supply Chain Network Based on Discrete-continuous Combined Modeling

Wen-Li Wang and Yao-Wen Xue

Shanghai Jiaotong University, China

B09-08,CASoN-2010-0359

Fault Diagnosis of Rolling Bearing Based on Wavelet Packet and Fourier Analysis

Yu-Feng Yin, Jian-Wei Yang, Guo-Qiang Cai, and De-Chen Yao

Taiyuan University of Science and Technology, China

B09-09,CASoN-2010-0458

Direct Torque Control of Brushless Direct Current Motor based on Position Detect Algorithm of Counter Electromotive Force

Feng Pan, Guang-Wei Li, Ru-Cheng Han, Ze-Ying Zhi, and Shao-Juan Yu

Taiyuan University of Science and Technology, China

B09-10,CASoN-2010-0469

A GPC Control Method and Stability Analysis of the NCS

Zhi-Yi Sun, Hong Li, and Feng Pan

Taiyuan University of Science and Technology, China

P04

Poster Session (04)

P04-01, CASoN-2010-IS12-01

A Prediction-Correction Method for Monotone Inverse Variational Inequalities

Zheng-Sheng Ding and Chao-Feng Shi

Xidian University, China

P04-02, CASoN-2010-IS17-09

Particle Swarm Optimization Programming

Xiao-Jun Wu, Ming Zhao, and Yao-Hong Qu

Polytechnical University, China

P04-03, CASoN-2010-0588

Language Identification Using Wavelet Transform and Artificial Neural Network

Shawki A. Al-Dubae, Nesar Ahmad, Jan Martinovič, and Václav Snášel

Aligarh Muslim University, India

P04-04, CASoN-2010-0620

Development of Parametric Drawing Program Based On AutoCAD VBA

Ruo-Hui Wang

Shanxi University, China

P04-05, CASoN-2010-0052

On-line Batch Process Monitoring Using SVM-Based MPLS

Zhi-Feng Wang

Shanghai Second Polytechnic University, China

P04-06, CASoN-2010-0083

A Design of Awakening Strategy for Wireless Sensor Network

Chun-Bo Chang, Xiao-Song Li, and Xiao-Fang Li

Taiyuan University of Science and Technology, China