

2010 Systemics and Informatics World Network Congress

# SIWN 2010

Chongqing, China, 12-14 July 2010

# PROGRAM

## **Academic Sponsors**

Chongqing University of Posts and Telecommunications China  
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National Natural Science Foundation of China  
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IEEE SMCS Technical Committee on Self-Organized Distributed and Pervasive Systems (TC-SODPS)  
Foresight Academy of Technology UK

## Main Contacts during SIWN 2010 Conferences

### Local Host:

Professor Hong Tang  
Chongqing University of Posts and Telecommunications, China  
Mobile phone: (+86) 0139 0833 2991  
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### Program Matters

Professor Huaglory Tianfield  
Glasgow Caledonian University UK  
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# 2010 Systemics and Informatics World Network Congress (SIWN 2010)

Chongqing, China, 12-14 July 2010  
<http://siwn.org.uk/2010/>

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Following the success of its recent editions (CODS/ICABS2007 in Chengdu, SIWN2008 in Glasgow, SIWN2009 in Leipzig), the 2010 Systemics and Informatics World Network (SIWN 2010) will be in Chongqing, China.

The 2010 Systemics and Informatics World Network (SIWN 2010) aims to provide a distinctive premier international forum for active researchers, developers, professionals and academics from different domains and with diversified backgrounds to get together, to share state-of-the-art research achievements and practical experiences, to exchange in-depth findings and innovative ideas, and in particular to harness the greatest challenges and think seriously into the future.

SIWN 2010 comprises an exciting spectrum of highly stimulating thematic Conferences.

- 3rd International Conference on Bioinformatics and Systems Biology (BSB 2010)
- 1st International Conference on Business Technology and Enterprise Systems (BTES 2010)
- 4th International Conference on Complex Distributed Systems (CODS 2010)
- 3rd International Conference on Industrial Informatics and Systems Engineering (IISE 2010)
- 1st International Conference on Pervasive Networked Services and Internet of Things (PNSIOT 2010)
- 1st International Conference on Swarm Intelligence and Emergent Computing (SIEC 2010)
- 1st International Conference on Wireless Communications Frontiers (WCF 2010)

## Program at a Glance

	Mon 12 July	Tue 13 July		Wed 14 July	
08:30-09:00		Welcome Addresses			
09:00-09:10		All Delegates Photo Taking			
09:10-10:30	Registration	Plenary Talk #1		Plenary Talk #3	
10:30-10:50		Coffee Break			
10:50-12:10		Plenary Talk #2		Plenary Talk #4	
12:10-14:00	Lunch Buffet				
14:00-15:00	Registration	Technical Session TP11	Technical Session TP12	Technical Session WP11	Technical Session WP12
15:00-15:20		Coffee Break			
15:20-16:40		Tutorial #1	Technical Session TP22	Tutorial #2	Technical Session WP22
16:40-16:50		Break			
16:50-18:10		Tutorial #1	Technical Session TP32	Tutorial #2	Technical Session WP32
18:30-21:00	Evening Buffet	Reception Banquet		Conference Banquet & River Nightview Yacht Tour	

### Venue

Campus of Chongqing University of Post and Telecommunications (CQUPT)  
 2 Chongwen Road, Nan'an District, Chongqing 400065, China  
 重庆南岸区崇文路2号 重庆邮电大学, 邮编 400065

Registration 报到注册: CQUPT Campus Hotel 重庆邮电大学会训宾馆

### Conference Presentations 会议报告

Plenary Talks	No. 3 International Lecture Auditorium 第三国际会议厅	
Technical Sessions	CQUPT Campus Hotel 重邮宾馆会议室	
	Meeting Room H302	Meeting Room H303
Tuesday 13 July	Tutorial #1 TP11	TP12 TP22 TP32
Wednesday 14 July	Tutorial #2 WP11	WP12 WP22 WP32

### Caterings 会议就餐

Buffet (12, 13, 14 July) 会议自助餐	Sunshine Hall in CQUPT Campus Hotel 重邮宾馆阳光厅
Reception (13 July) 欢迎宴会	Multi-function Hall in CQUPT Campus Hotel 重邮宾馆多功能厅
Conference Banquet (14 July) 大会晚宴	Nightview Yacht 两江游船上, 餐后游两江观夜景

## **Plenary Talks**

- Plenary Talk #1      Title: Trends in Future Internet and Communications for Pervasive Computing  
Speaker:  
Session Chair:      Dr. J. Martin Serrano  
Qianbin Chen      Waterford Institute of Technology, Ireland
- Plenary Talk #2      Title: Distributed Spectrum Allocation for Cognitive Radios: An Game Theory  
Approach  
Speaker:  
Session Chair:      Professor Youyun Xu  
Xianzhong Xie      Institute of Wireless Communication Technology, Shanghai Jiao Tong  
University, China
- Plenary Talk #3      Title: SOA and (Multi-)Agent Systems Technology: Can the Latter Serve the  
First?  
Speaker:  
Session Chair:      Professor Dr Rainer Unland  
Hong Tang      University of Duisburg-Essen, Germany
- Plenary Talk #4      Title: Internet of Services  
Speaker:  
Session Chair:      Professor Huaglory Tianfield  
Martin Serrano      Glasgow Caledonian University, UK

## **Tutorials**

- Tutorial #1      Title: Organization-Based Software Engineering for Self-adaptive Multi-Agent  
Systems  
Presenter:  
Session Chair:      Professor Xinjun Mao  
Rainer Unland      Department of Computer Science and Technology, National University  
of Defense Technology, China
- Tutorial #2      Title: Application of Game Theory to Cognitive MIMO Radio  
Presenter:  
Session Chair:      Wei Zhong  
Martin Serrano      Department of Electrical Engineering, Shanghai Jiao Tong University,  
China

## Plenary Talk #1

Title: Trends in the Future Internet and Challenges in Communications for Pervasive Computing

Session Chair: Qianbin Chen

Speaker:

Dr. J. Martin Serrano  
Waterford Institute of Technology (WIT)  
Telecommunications Software & Systems Group (TSSG)  
ArcLabs Research & Innovation Centre  
Co. Waterford, Ireland  
Phone. +353 51834043  
Fax. +353 51341100  
E-mail: jmserrano@tssg.org  
<http://www.tssg.org/people/jmserrano>

Abstract:

Convergence between Internet technologies for communications networks and Software solutions for enterprise services has been a clear trend in the Information and Communications Technology (ICT) domain in the past few years. Although widely discussed, this trend has not fully run its course in terms of implementation, due to many complex issues involving deployment as result of non-interoperable technology aspects where social, economic and political dimensions take place, all these issues a matter of end-user demands and requirements need to be addressed in a new way.

The Future Internet (FI) is currently seen as an opportunity to improve the network infrastructure addressing service-oriented, social trends and economic commitments. So challenges in the future communications systems mainly demand, in terms of end user requirements, personalized provisioning, service-oriented performance, and service-awareness networking. To support these end user demands information interoperability and data models integration is necessary.

In Pervasive Computing the free exchange of information between enterprise applications and networking systems is critical to support multiple personalized services, enables diversity on end-user applications and enable heterogeneous infrastructures to optimize communication network performance. In Autonomic Computing complexity and scalability have been topics for intensive research activity towards accessorize service compatibility and transparent heterogeneous infrastructure interaction. In these software-enabled and autonomic complex scenarios, where information exchange supporting service and network management is necessary, the federation emerges as mechanism to facilitate the free exchange of information between independent applications with the same common objective but with different policies and regulations.

This talk focuses on research trends for information interoperability and cross domain information sharing for controlling communication systems. Research activity for pervasive computing about context-awareness and semantic enrichment tasks for management information contained in both enterprise and networking information and data models respectively is described. Ontologies are described as support formalising service and network information for service composition in the Future Internet service-aware approach.

In this talk the federation paradigm for managing end-to-end services highlighting the flexibility of Pervasive Computing systems supporting value-added management services is introduced. Federation acts as the orchestration mechanism coordinating and harmonizing the differences in data and information between service operation, management of heterogeneous networks, and application management communication systems. The Federation Model is used to

accessorize service and network management operations in heterogeneous infrastructure and diverse communication services. This talk addresses cross-domain research activities into the SFI-FAME Scientific Research Cluster in collaboration with the Irish Future Internet Forum an Irish Research Initiative.

### Speaker's Bio



Dr. Martín Serrano is Principal Investigator in the Telecommunications Software and Systems Group at the Waterford Institute of Technology in Ireland. His research activity focuses on Pervasive Computing, Knowledge Engineering and Cloud Computing areas, with particular interest on applied semantics and context-awareness in Autonomics Communications, management of complex systems and the design of the Future Internet.

With extensive research experience from actively participating in EU-IST projects and EU-Research Networks of Excellence and Industry experience working for National Panasonic/AKME-BC as Team Leader on Engineering Research and Development of Technologies, Project Management, Planning, Analysis, Documentation and Task Mapping.

Research field: Pervasive Computing, Service Management, Information and Communication Technologies.

Dr. Serrano generally investigate on Distributed Systems, Policy-Based Management and Semantics (Ontologies) with the aim for enabling end-to-end services and the management of information and communications systems. He is currently investigating federated reference models, service management, service modelling and mechanisms to facilitate interoperability and integrated management in future communication systems.

He proposes that semantic techniques applied to policy-based management systems can be used as an approach to produce cognitive applications capable of understanding service and application events controlling pervasive services life cycle. He is also investigating sensor networks to monitor end-user activity patterns for personalized healthcare systems (pHealth). Further details are available at <http://www.tssg.org/people/jmserrano>

## Plenary Talk #2

Title: Distributed Spectrum Allocation for Cognitive Radios: An Game Theory Approach

Session Chair: Xianzhong Xie

Speaker:

Professor Youyun Xu  
Institute of Wireless Communication Technology  
Shanghai Jiao Tong University  
800 Dongchuan Road, Shanghai CHINA 200240  
Office: B5-417 Flex Laboratory Building  
Phone: 8621-34205465  
Email: yyxu@vip.sina.com

Abstract:

Recent research has shown that the exclusive use of the licensed radio spectrum is highly inefficient. As a novel approach to enhancing the efficiency of utilizing the scarce radio spectrum, cognitive radio (CR) has attracted tremendous interests recently.

As one of the most important techniques in cognitive radio networks, spectrum allocation technique has become a hot subject of research currently. The spectrum allocation technique in cognitive radio networks is mainly related to the network structure and spectrum sharing model. In this talk, we consider the spectrum allocation techniques in decentralized cognitive radio network based on game theory.

On the other hand, Multiple-input multiple-output (MIMO) technique can significantly increase the channel capacity and has become a dominating technique in future generation wireless systems. It is thus quite natural to combine these two techniques together to further enhance the overall spectrum efficiency. Such technological combination results in the so-called cognitive MIMO radio. In cognitive MIMO radio networks, the optimal spectrum sharing strategies require full channel state information (CSI) at the transmitters and receivers. However, full CSI are usually unavailable at the transmitters, thus limited feedback techniques are challenging. This talk reviews recent advances on the limited feedback spectrum sharing strategy for cognitive MIMO radio systems. In particular, we mainly discuss the distributed algorithms based on game theory for cognitive MIMO MAC.

Speaker's Bio

Youyun Xu was born in 1966, received the B.S. degree from Xi'an Airforces Institute of Telecommunication Engineering in 1988, the M.S. from Nanjing Institute of Communication Engineering in 1993 and Ph.D. degree from Shanghai Jiao Tong University in 1999. He is currently a professor at Nanjing Institute of Communication Engineering and a part-time Professor with the Institute of Wireless Communication Technology at Shanghai Jiao Tong University. He has more than 20 years R&D experience on satellite communications and wide-band wireless/mobile communications. His group is working on technology research for B3G mobile communication trial system developing (FuTURE Project in China). His research interests are focusing on mobile communications, satellite communications, HF radio communications, channel coding and network coding, Cognitive radios, information theory and radio resources management, etc. He is also a member of IEEE in communication society.

## Plenary Talk #3

Title: SOA and (Multi-)Agent Systems Technology: Can the Latter Serve the First?

Session Chair: Hong Tang

Speaker:

Prof. Dr. Rainer Unland  
University of Duisburg-Essen  
Institute for Computer Science and Business Information Systems (ICB)  
Practical Computer Science, especially Data  
Management Systems and Knowledge Representation  
Schuetzenbahn 70  
45117 Essen, Germany  
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Email: Rainer.Unland at icb.uni-due.de  
WWW: <http://www.dawis.wiwi.uni-due.de/>

Abstract:

Today's world not only has become more complex but also much more dynamic. From the business point of view this requires an IT that is not only affordable but also highly flexible and adaptable. In order to achieve this, the idea of software services composition (also called choreography and orchestration) came up. Here, enterprise applications are assembled from comparatively simple pre-existing building blocks that are loosely integrated in an efficient and meaningful way - especially tailored to the specific needs of the underlying business process. This leads to highly distributed and fluid software systems that may even cut across the boundaries of enterprises.

Software services are typically designed, built and deployed independently from each other, however, are meant to follow common standards to enable dynamic interoperability and loose coupling. If we take a look at what Service-oriented Architecture (SOA) is promising to deliver we find, among others, features like flexibility, adaptability, autonomy, cooperation, or interoperability. However, if we take a look at current implementations of SOA it becomes clear that many of the mentioned features are far away from being fully realized yet.

Implementations are usually static, provide comparatively low fault-tolerance, and lack dynamism, versatility, and adaptivity. Moreover, it takes substantial human efforts to build such systems. This is where agent technology may come into the picture. SOA-relevant features which are dealt with by the multi-agent systems community are collaboration, self-organization, adaptability, pro-activeness, and interoperability. If we consider IT to be the skeleton of an enterprise then SOA can be seen as the bones and agent technology as the cartilage that makes sure that the joints are properly connected, even if the mere bones may look completely incompatible when we just look at them. Agent technology may not help to realize the core functionality of a service but it may help to wrap its functionality in a way that it becomes highly adaptable, more intelligent, more cooperative, and self-organizing.

Replaceability, compatibility, and process conformance checks are tasks that can be performed well by agents on a higher level than just checking the interfaces of service descriptions.

This talk will present some results which were achieved during a recent so-called Dagstuhl seminar where renowned researchers from all over the world met for one week to discuss in what ways MAS technology can help to realize SOA in a better way.

## Speaker's Bio

Rainer Unland is full professor and head of the data management and knowledge representation group at the university of Duisburg-Essen. His main interests are in the area of database management systems and multi-agent systems. He has published more than 140 papers, a few books and is involved in a huge number of events not only in the database and the multi-agent systems area. Additionally, he is editor-in-chief of the IOS "Multiagent and Grid Systems (MAGS)" journal as well as deputy editor of the Elsevier "Engineering Applications of Artificial Intelligence (EAAI)" journal (among others).

## Plenary Talk #4

Title: Internet of Services

Session Chair: Martin Serrano

Speaker:

Huaglory Tianfield

Professor of Distributed and Networked Systems, Ph.D.

Co-Director, The Research Centre for Distributed and Pervasive Systems Initiative (DPSI)

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<http://www.gcal.ac.uk/sec/aboutus/communicationnetworkelectronicengineering/divisionstaff/htianfield/>

Abstract:

Tremendous endeavours have been directed worldwide towards the Future Internet beyond the IP based Architectures. This talk starts from an overview upon the Future Internet drivers and trends, including Internet of Things, Internet of Services, Internet of Contents and so forth. Then we will focus on the potential impacts Service-Oriented Architectures (SOA) would bring forth upon the Future Internet. In particular, we will exemplify some interesting insights through pervasive systems and cloud computing.

Speaker's Bio

Huaglory Tianfield is the Professor of Distributed and Networked Systems at Glasgow Caledonian University, UK since early 2001. Previously he held various senior research or academic positions in China (1992-1997), Germany (1997-1998, 1999-2000), France (1998-1999) and England, UK (2000-2001). Prof Tianfield contributes extensively towards professional activities. He is currently the Chair for the IEEE Systems, Man, and Cybernetics Society's Technical Committee on Self-Organized Distributed and Pervasive Systems, Editor-in-Chief of International Transactions on Systems Science and Applications, Editor-in-Chief of Systemics and Informatics World Network (formerly: Communications of SIWN), Executive Editor (formerly: Co-Editor-in-Chief) of Multiagent and Grid Systems -- An International Journal, Associate Editor of Engineering Applications of Artificial Intelligence, and Journal of Control Theory and Applications, and member of editorial board, guest co-editor and co-editor of numerous journals and book series. Prof Tianfield has served as (Co-)Chair or IPC member for over 90 international conferences and symposia. Currently Prof Tianfield is Co-Director of the Center for Distributed and Pervasive Systems Initiative (DPSI). His research interests are in Internet of Things (IoT), Internet of Services, ad hoc wireless networks, Service-Oriented Architectures (SOA), Multi-Agent Distributed Systems (MADS). He is (co-)author of 140 research papers published in refereed journals and conferences. Prof Tianfield holds BEng (Hons) in 1986, MEng (Research) in 1989 and PhD Eng in 1992, all in Electronic Engineering.

## Tutorial #1

Title: Organization-Based Software Engineering for Self-adaptive Multi-Agent Systems

Session Chair: Rainer Unland

Presenter:

Professor Xinjun Mao  
Department of Computer Science and Technology  
National University of Defense Technology  
Changsha, Hunan, China, 410073  
Email: mao.xinjun@gmail.com

Abstract

Abstract: Self-adaptive system is a kind of complex system that is typically situated in open environment and is able to adjust its structure and behaviors, and therefore shows adaptation to the changes of the situated environment in order to satisfy the design objectives. To develop such systems in an engineering way is still a great challenge in the literature of software engineering. In this tutorial, we introduce an organization-based approach to developing self-adaptive systems. Our approach is based on an organization meta-model that contains a number of core meta-concepts such as environment, role, organization, agent, etc. A dynamic binding mechanism for self-adaptation is presented, with which self-adaptation is interpreted as dynamically binding to various roles in organization context. A methodology called ODAM is presented to model, analyze and design self-adaptive systems. In order to program self-adaptive software system, we put forward a language SADL to describe the self-adaptation logic of software system, which is helpful to simplify the development and maintenance of self-adaptive systems. CASE toolkits and platform have been developed to support the above mechanism, methodology and language.

Presenter's Bio:



Xinjun Mao received his B.Sc. degree in computer science from College of Information and Engineering of China in 1992, M.Sc. and Ph.D. degrees in computer science from National University of Defense Technology of China, in 1995 and 1998, respectively. After graduation, he joined the department of computer science and technology, National University of Defense Technology as a lecturer in 1998. During 2003 to 2004, he was a visitor in the department of computer science, University of Toronto, Canada. Now he is the professor of the university and head of agent research group in the department of computer science and technology.

He has wide research interests, mainly including software engineering, distributed computing, agent theory and technology, self-adaptive and self-organization system. In these areas, he has got several financial supports from Natural Science Foundation of China, High-Technology Project of China, and published one book and over 50 papers in various journals and conference. He also served as program committee chairs and members of several conferences.

## Tutorial #2

Title: Application of Game Theory to Cognitive MIMO Radio

Session Chair: Martin Serrano

Presenter:

Wei Zhong  
Department of Electrical Engineering  
Shanghai Jiao Tong University  
China  
Email: zhongwei\_ch@hotmail.com

### Abstract

Cognitive radio, which can enhance the efficiency of utilizing the scarce radio spectrum, has attracted tremendous interests recently. On the other hand, multiple-input multiple-output (MIMO) technique can significantly increase the channel capacity and has become a dominating technique in future generation wireless systems. It is thus natural to combine these two techniques together and this combination results in the so-called cognitive MIMO radio. Since the globe information are difficult to be known in advance in cognitive MIMO radio networks, distributed algorithms are required to efficiently allocate the radio resource in self-organized approach. Game theory is an efficient tool to study the distributed optimization problem. Thus, the application of Game theory to cognitive MIMO radio is challenging. In this tutorial, the concept of cognitive radio, MIMO, and game theory will be introduced. Then, some latest game-theoretic cognitive MIMO techniques will be discussed, including game-theoretic signal processing, game-theoretic radio resource management, and so on.

Targeted Audience:

This tutorial is suitable for the researchers who are interested in wireless communication, cognitive radio, MIMO technology, and game theory.

Outline:

1. Introduction to MIMO
2. Introduction to Cognitive Radio
3. Concept, principle of cognitive MIMO
4. Introduction to game theory
5. Game-theoretic framework to cognitive MIMO radio
6. Example designs & simulations on game-theoretic cognitive MIMO techniques
7. Summary

Presenter's Bio

Wei Zhong received B.S. degree and M.S. degree in electrical engineering in 2003 and 2006, respectively. Since 2006 he is a Lecturer in Nanjing Institute of Communications Engineering, PLA University of Science & Technology). At present, he is at his thesis stage toward the Ph. D. degree at the School of Electronic, Information and Electrical Engineering (SEIEE), Shanghai Jiao Tong

University (SJTU). His current research interest includes wireless communication and information theory, distributed radio resource management, signal processing and game theory.

He is a recipient of the Outstanding Master's Thesis in Jiangsu province, China. He serves as the TPC member of IEEE APCC 2009-2010 and as the reviewer for some Journals including IEEE Journal on Selected Areas in Communications (JSAC), IEEE Transactions on Wireless Communications (TWC), IEEE Communication Letters (CL), and Wiley Journal of Wireless Communications and Mobile Computing (WCMC).

## Technical Sessions Tuesday afternoon 13<sup>th</sup> July 2010

### Technical Session #TP11

Session Chair: Hong Yue

- #bsb-02 JACVANN: A Java Framework For Complex Valued Artificial Neural Networks  
Jonas WINKLER, Sascha HAUKE, Martin PYKA and Dominik HEIDER
- #bsb-05 Extending Prostate cancer KEGG Pathways Using Machine Learning of Graphical Models  
Adel ALORAINI, James CUSSENS and Richard BIRNIE
- #bsb-10 Sensitivity Analysis of Oscillatory Biological Systems with a SVD-Based Algorithm  
Bao-Yun Lu and Hong Yue

### Technical Session #TP12

Session Chair: Yu Wu

- #siec-07 An Agent-based Dynamic Integration and Adaptive Evolving Model in Software Development  
Qingshan LI, Weihua SUN, Lili GUO, Haishun YUN, He LIU
- #siec-09 The Emergent Properties of Internet: a Survey  
Hong Tang, Rongnan Liao, Lu Wang
- #siec-05 A Quantitative Analysis Method of Swarm Behavior  
Kai Zhou, Yu Wu, Li Wang and Hong Tang

### Technical Session #TP22

Session Chair: Sayeed Ghani

- #wcf-02 Joint Sensing Time and Power Allocation in Cognitive Networks with Amplify-and-Forward Cooperation  
Chengshi ZHAO , Bin SHEN, Taiping CUI, Kyungsup KWAK, and Dapeng WU
- #wcf-11 Design and Implementation of Handover Process in LTE System  
Caixiang Wang, Tangdi Zhang and Xiaowen Li
- #wcf-16 Multiple-Routing Scatternet Simulator (M-RSS) for Bluetooth -Mobile Ad-hoc Networks :Simulation Comparisons Development and Evaluations  
Mohamed Salem Elshebani, Abd-Alhakem Sh. Alkhrabash
- #wcf-12 Analysis of Pareto Distribution on Delay Performance in Networks  
Sayeed Ghani

### Technical Session #TP32

Session Chair: Salvatore Cavalieri

- #iise-02 Train Traffic Control Modeling using Hybrid Colored Petri Nets  
Wang Honggang
- #iise-15 A Web-based Visualization Platform for Photochemical Reaction Simulations  
Mingze Bai, Li Cheng, Hong Tang, Yusheng Dou, Shixin Sun
- #iise-03 Multi-objective Optimization of Biomass-based Integrated Renewable Energy System Considering Economics and CO2 Emissions  
Hongbo Ren, Weisheng Zhou, Weijun Gao, Qiong Wu
- #iise-13 Impact of OPC UA Specification on Industrial Applications  
Salvatore Cavalieri

## Technical Sessions Wednesday afternoon 14<sup>th</sup> July 2010

### Technical Session #WP11

Session Chair: Desh Ranjan

- #bsb-11 Analyzing Robustness of NF-kB Signaling Transduction Networks via Bifurcation Analysis  
Bao-Yun Lu and Hong Yue
- #bsb-13 Technique for Cardiac Flow Component Analysis  
Kelvin KL Wong, and Jiyuan Tu
- #bsb-08 Enumeration of the Geometrically Constrained Assignments of the Secondary Structures using the Constraint Graph  
Kamal Al Nasr, Desh Ranjan, and Jing He

### Technical Session #WP12

Session Chair: Sascha HAUKE

- #cods-03 A Trustworthy Storage System with Variable Data Partitioning  
Feng SHEN and Hai JIANG
- #cods-09 Application of ClickStream Analysis in a Tailored Focused Web Crawler  
Fatemeh Ahmadi-Abkenari and Ali Selamat
- #cods-06 Towards Improved Trust Diffusion ThroughActive Recommender Propagation  
Sascha HAUKE, Martin PYKA and Dominik HEIDER

### Technical Session #WP22

Session Chair: Xinjun Mao

- #iise-01 Optimal allocation of resources via market mechanism  
Yong Mei Ding, and Dong Guo Shao Gu Li Na
- #cods-08 The Performance Comparison between GridFTP and VsFTP  
Chen He, Juan Liu, Shanfei Jiao, Yusheng Dou, Hong Tang
- #cods-13 A Practical Information Filtering Technique  
Gongxuan Zhang, Pingli Wang, Bin Song, Kai Tian and Rong Zhang
- #cods-02 Programming Self-Adaptive Multi-Agent Systems  
Xinjun Mao, Menggao Dong, Yi Guo and Huaimin Wang

### Technical Session #WP32

Session Chair: Qian-Bin Chen

- #cods-11 Self-Organizing Functions and Their Coordination in Self-Organizing Communication Networks  
Haitao Tang and Seppo Hämäläinen
- #pnsiot-11 Dynamic Services T-Criteria Based on Context Resources in the Internet of Things  
Jianhua Liu and Weiqin Tong
- #pnsiot-12 Distributed Complex Event Processing for RFID Data Streams  
Sun Xiangwei, Chen Rong, Yang Hong
- #pnsiot-08 IoT: System Model, Architecture and Technologies  
Ya-Lai Zhao, Jie Ma, Rong Chai, Qian-Bin Chen and Qing Jiang

## Non Presented Papers

- #btes-05      How Does A Union Environment Affect Outcomes of An Enterprise System (ES) Implementation? A Longitudinal Case Study  
Eric Mei, Linying Dong
- #cods-05      Management Techniques for Multiagent Virtual Organization  
Xiaoqin Shelley Zhang, Ping Xuan and Bhumit Patel
- #cods-07      Local Registry-Based Approach for Binding Optimization of Web Services  
Jaber Kouki, Walid Chainbi and Khaled Ghedira
- #cods-10      Analysis and Design of Multi-Level Virtual Indoor Environment  
Jonathan DEMANGE, Stephane GALLAND, Abderrafiaa KOUKAM
- #cods-17      Cohesion and Complex Systems Structure  
Horacio Paggi, Fernando Alonso Amo and José Crespo
- #pnsiot-10    Simulation and analysis of the shielding effectiveness of the PoE Hub with redundancy  
FU Wei, ZHANG Ya-chao, He Pei, Gan Chao, ZHANG Jun
- #siec-08      Data Quality enhancements supported by a Particle Swarm Optimization Approach  
Sandra Collovini DE ABREU, Luiz C. Ribeiro JUNIOR, Marília Terra DE MELLO and Tércio Oliveira DE ALMEIDA
- #wcf-05      The Effect Of Reliability On Various MANETs Routing Algorithms  
Tariq Abu Hilal, Hasan Abu Hilal and Hussein Al-Bahadili
- #wcf-10      A Small Dual-band Monopole Antenna for WLAN Applications  
Wan Xiao-Yu, Ding Hong-Sha, Fan Zi-Fu

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