The 2013 World Cybermatics Congress (WCC 2013)

The 2013 IEEE International Conference on Green Computing and Communication (GreenCom 2013)

The 2013 IEEE International Conference on Internet of Things (iThings 2013)

The 2013 IEEE International Conference on Cyber, Physical and Social Computing (CPSCom 2013)

August 20-23, 2013, Beijing, China

Conference Program and Information Booklet

Organized by
Beihang University, China

Sponsored by
IEEE, IEEE Computer Society,
IEEE Technical Committee on Scalable Computing (TCSC),
Ministry of Industry and Information Technology of the People's Republic of China,
Natural Science Foundation of China (NSFC)

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WELCOME PAGE

Dear Friends;

We believe that the frontier information science are basically characterized by not only catching up with the human intelligence (e.g. intelligent sensing, making decision and control, etc), but also learn much from the nature-inspired attributes (e.g., dynamics, self-adaptability, energy saving). Among such research areas, a newly-emerged interdisciplinary, Cybermatics (i.e., cyber technology) as we called here, includes three main aspects: Internet of Things (IoT), cyber, physical and social computing, and green computing and communications. Therefore, we have launched three international conferences according to the three aspects.

Cybermatics is characterized by mapping the physical and social spaces into the cyber space to achieve the convergence of the three spaces, i.e., physical, social, and cyber. In the cyber space, ubiquitous entities are greatly independent from the space-time constraints which exist in the physical space. However, could the thinking space be directly mapped into the cyber space? The answer may be a YES, but it is probably an ultimate limit state, i.e., Internet of Thinking (IoTk) which is a collaborative wisdom and thinking beyond the space-time constraints. Thanks to the development of the computer and Internet, Cybermatics has been growing well at its initial stage, which will last for a period of time.

It is predicted that Cybermatics will lead industrialization and IT application to a new level and profoundly change the way of production, living, and even thinking of the mankind.

The 2013 World Cybermatics Congress (WCC 2013) has attached researchers, engineers, and managers from academia, industry, education, and government to jointly promote the further development of Cybermatics. The WCC includes three IEEE main conferences (including the 2013 IEEE International Conference on Green Computing and Communications (GreenCom 2013), the 2013 IEEE Internet of Things (iThings 2013), and the 2013 IEEE Cyber, Physical and Social Computing (CPSCom 2013)), and two symposia (i.e., Symposium on Frontiers of Internet of Things (SymIoT), and Symposium on Frontiers of Cyber-Physical-Social Computing (SymCPS)), 20+ workshops, and 10+ SCI/E indexed special issues. The WCC 2013 provides a high-profile, leading-edge framework for researchers, engineers, and practitioners to present the state-of-art advances and innovations in the Cybermatics.

We sincerely thank IEEE, IEEE Computer Society, IEEE Technical Committee on Scalable Computing (TCSC), Natural Science Foundation of China (NSFC), and Wang Kuancheng Education Fund for the supports on the success of the 2013 World Cybermatics Congress.

Huansheng Ning, Beihang University, China
Joint Executive Chair of GreenCom/iThings/CPSCom 2013

Jianhua Ma, Hosei University, Japan
Laurence T. Yang, St Francis Xavier University, Canada
Joint Steering Chairs of GreenCom/iThings/CPSCom 2013

IEEE GREENCOM/ITHINGS/CPSCOM 2013 PROGRAM AT A GLANCE

Tuesday, August 20, 2013, Beihang University			
IEEE GreenCom/iThings/CPSCom 2013 Program			
8:40-10:40	GreenCom VeSAN	GreenCom-Next #1/3	BR&A
	Room 2, Meeting Center, New Main Building	Room 3, Meeting Center, New Main Building	B228, New Main Building
	CPSIP	CS&IC	ECTE #1/2
	B216, New Main Building	A209, New Main Building	A212, New Main Building
	EDI #1/2	e-WiSe	GS&GSP #1/2
	A208, New Main Building	Room 5, Meeting Center, New Main Building	B204, New Main Building
	HBC&BSP #1/4	HBC&BSP #2/4	IWMMC
	B221 New Main Building	C201, New Main Building	Room 4, Meeting Center, New Main Building
	LTLS	OC&A	PhoneCom
	Room 7, Meeting Center, New Main Building	A209, New Main Building	Room 6, Meeting Center, New Main Building
	SeIoTA	SNDCS #1/2	TFWS
	B201, New Main Building	B225, New Main Building	B201, New Main Building
	UUMA #1/4	UUMA #2/4	
	B206, New Main Building	B208, New Main Building	
10:40-11:00	Coffee Break		New Main Building
11:00-12:40	GreenCom-Next #2/3	GreenCom-Next #3/3	CV2N
	Room 2, Meeting Center, New Main Building	Room 3, Meeting Center, New Main Building	Room 6, Meeting Center, New Main Building
	ECTE #2/2	EDI #2/2	EPS
	A212, New Main Building	A208, New Main Building	Room 4, Meeting Center, New Main Building
	GS&GSP #2/2	HBC&BSP #3/4	HBC&BSP #4/4
	B204, New Main Building	B221 New Main Building	C201, New Main Building
	NMCV4SC	SDPI	SNDCS #2/2
	Room 6, Meeting Center, New Main Building	B201, New Main Building	B225, New Main Building
	SSO	UUMA #3/4	UUMA #4/4
	Room 7, Meeting Center, New Main Building	B206, New Main Building	B208, New Main Building

12:40-14:00	Lunch		Beihang University
14:00-15:30	Opening Ceremony		The First Reporting Hall of New Main Building
15:30-19:30	Visit Aviation Museum, Reception		Beihang University
Wednesday, August 21, 2013, Park Plaza Beijing Science Park Hotel			
IEEE GreenCom 2013 Program			
8:20-10:00	GreenCom SBDCC #1/2	GreenCom SPTC	GreenCom OACCS #1/2
	Tianhong 1	Tianhong 2	Tianhong 3
10:00-10:20	Coffee Break		Park Plaza Hotel
10:20-12:25	GreenCom SBDCC #2/2	GreenCom MMASA	GreenCom OACCS #2/2
	Tianhong 1	Tianhong 2	Tianhong 3
12:25-14:00	Lunch		Park Plaza Hotel
14:00-14:50	GreenCom Keynote I (Dr. Chih-Lin I)		Grand Ballroom 2
14:50-15:40	GreenCom Keynote II (Dr. Tarik Taleb)		
15:40-16:00	Coffee Break		Park Plaza Hotel
16:00-16:50	GreenCom Keynote III (Prof. Zhisheng Niu)		Grand Ballroom 2
19:30-22:00	Banquet		Pending
IEEE iThings/CPSCom 2013 Program			
8:20-9:00	iThings/CPSCom Tutorial Talk (Prof. Vincenzo Piuri)		Grand Ballroom 1 & 2 & 3
9:00-9:40	iThings/CPSCom Keynote I (Prof. Mohammad S. Obaidat)		
9:40-10:00	Coffee Break		Park Plaza Hotel
10:00-10:40	iThings/CPSCom Keynote II (Dr. Zhen Liu)		Grand Ballroom 1 & 2 & 3
10:40-11:40	CPSCom 2013 Panel		
11:40-12:30	IoT/CPS Demo and Exhibition Madness, Cybermatics Creative Video Contest		
12:30-14:00	Lunch		Park Plaza Hotel
14:00-15:40	iThings SDME #1/2	iThings DSC	iThings IDPUC #1/2
	Grand Ballroom 1	Grand Ballroom 3	Golden 1
	iThings ABSSI #1/2	CPSCom AS #1/2	CPSCom STP #1/2
	Golden 3	Tianhong 1	Tianhong 2
	CPSCom STP #2/2	SymIoT #1/6	SymCPS #1/4
	Tianhong 3	Four Seasons 5	Four Seasons 6
15:40-16:00	Coffee Break		Park Plaza Hotel
16:00-18:20	iThings SDME #2/2	iThings AI	iThings IDPUC #2/2
	Grand Ballroom 1	Grand Ballroom 3	Golden 1
	iThings ABSSI #2/2	CPSCom AS #2/2	CPSCom DMSA #1/2
	Golden 3	Tianhong 1	Tianhong 2
	CPSCom CCN	SymIoT #2/6	SymCPS #2/4
	Tianhong 3	Four Seasons 5	Four Seasons 6
18:00-19:00	IoT/CPS Demo and Exhibition		Golden 2

19:30-22:00	Banquet		Pending
Thursday, August 22, 2013, Park Plaza Beijing Science Park Hotel			
IEEE GreenCom 2013 Program			
8:20-10:00	GreenCom CN #1/3	GreenCom CN #3/3	GreenCom DHSMT #1/2
	Tianhong 1	Tianhong 2	Tianhong 3
10:00-10:20	Coffee Break		Park Plaza Hotel
10:20-12:25	GreenCom CN #2/3	GreenCom Short Paper Sub-Track	GreenCom DHSMT #2/2
	Tianhong 1	Tianhong 2	Tianhong 3
12:25-14:00	Lunch		Pending
IEEE iThings/CPSCom 2013 Program			
8:30-9:15	iThings/CPSCom Keynote III (Prof. Ivan Stojmenovic)		Grand Ballroom 1 & 2 & 3
9:15-10:00	iThings/CPSCom Keynote IV (Prof. Xindong Wu)		
10:00-10:20	Coffee Break		Park Plaza Hotel
10:20-11:05	iThings/CPSCom Keynote V (Prof. Mahmoud Danesh-mand)		Grand Ballroom 1 & 2 & 3
11:05-11:50	iThings/CPSCom Keynote VI (Prof. Yang Xiao)		
12:00-13:30	Lunch		Pending
13:30-17:00	China-EU IoT Interoperability Workshop		Grand Ballroom 3
14:00-15:40	iThings NC #1/3	iThings IM	CPSCom DMSA #2/2
	Golden 1	Golden 3	Tianhong 1
	CPSCom SN	SymCPS #3/4	SymIoT #3/6
	Tianhong 2	Tianhong 3	Four Seasons 5
	SymIoT #4/6		
	Four Seasons 6		
15:40-16:00	Coffee Break		Park Plaza Hotel
16:00-18:20	iThings NC #2/3	iThings NC #3/3	CPSCom CSUN
	Golden 1	Golden 3	Tianhong 1
	CPSCom SAN	SymCPS #4/4	SymIoT #5/6
	Tianhong 2	Tianhong 3	Four Seasons 5
	SymIoT #6/6		
	Four Seasons 6		
Friday, August 23, 2013			
Time	**Activity**		**Location**
8:00-18:00	OpenChina-ICT Thematic Workshop on Internet of Things and the Future Internet		Park Plaza Hotel

IEEE GREENCOM/ITHINGS/CPSCOM 2013 KEYNOTES/TUTORIAL TALK

iThings/CPSCom Tutorial Talk

Biometric Technologies for Ambient Intelligence in the Internet of Things

Professor Vincenzo Piuri
IEEE Fellow
Università degli Studi di Milano, Italy
E-mail: vincenzo.piuri@unimi.it

Abstract:

Adaptability and advanced services for ambient intelligence in the internet of things require an intelligent technological support for knowing the needs and the desires of users in the interactions with the environment for their daily use. To this purpose in some cases we can discover these characteristics by observing the human behavior, while in others we can retrieve stored information associated to the person. In both cases, the use of biometrics can be extremely useful both to understand the human behavior and to identify the person or the class of persons with similar characteristics so as to derive their needs and desires.

Biometric technologies allow in fact for analyzing human traits (e.g., face, fingerprint, palm) for identity management without requiring individuals to carry tokens or remembering information. These technologies allow also for classifying the persons by observing some soft-biometric traits (e.g., gait, height, weight, emotions), thus associating the needs typical of the detected class. Besides, some other soft-biometric traits (e.g., gestures, gait) allow for specifying actions desired by the person.

This talk will analyze the opportunities offered by biometric technologies and applications to support the realization of adaptable operations and intelligent services in the internet of things for ambient intelligence, based on a user-centric philosophy. Attention will be also given to a comprehensive system design methodology to take into account all application requirements, including the need for privacy protection.

Biography:

Vincenzo Piuri has received his Ph.D. in computer engineering at Politecnico di Milano, Italy (1989). He has been Associate Professor at Politecnico di Milano, Italy and Visiting Professor at the University of Texas at Austin and at George Mason University, USA. He is Full Professor in computer engineering (since 2000) and has been Director of the

Department of Information Technology at the Università degli Studi di Milano, Italy.

His main research interests are: biometrics, pattern analysis and recognition, signal and image processing, machine learning, theory and industrial applications of neural networks, intelligent measurement systems, industrial applications, fault tolerance, digital processing architectures, embedded systems, and arithmetic architectures. Original results have been published in more than 350 papers in international journals, proceedings of international conferences, books, and book chapters.

He is Fellow of the IEEE, Distinguished Scientist of ACM, and Senior Member of INNS. He is Editor-in-Chief of the IEEE Systems Journal (2013-15), and has been Associate Editor of the IEEE Transactions on Neural Networks and the IEEE Transactions on Instrumentation and Measurement. He is IEEE Director and IEEE Delegate for Division X, and has been President of the IEEE Computational Intelligence Society, Vice President for Publications of the IEEE Instrumentation and Measurement Society and the IEEE Systems Council, Vice President for Membership of the IEEE Computational Intelligence Society, and Vice President for Education of the IEEE Biometrics Council.

He received the IEEE Instrumentation and Measurement Society Technical Award (2002) for the contributions to the advancement of theory and practice of computational intelligence in measurement systems and industrial applications, the IEEE Instrumentation and Measurement Society Distinguished Service Award (2008), and the IEEE Computational Intelligence Society Meritorious Service Award (2009).

iThings/CPSCom Keynote I

A Novel Biometric Scheme for Risk-Based Authentication in Web Environments

Professor Mohammad S. Obaidat
IEEE Fellow and SCS Fellows
Monmouth University, USA
E-mail: msobaidat@gmail.com;
http://www.theobaidat.com/; http://bluehawk.monmouth.edu/mobaidat/

Abstract:

Existing risk-based authentication systems rely on basic web communication information such as the source IP address or the velocity of transactions performed by a specific account, or originating from a certain IP address. Such information can easily be spoofed, and as such, put in question the robustness and reliability of the proposed systems.

Risk-based authentication can be applied from two different perspectives: proactively and reactively. When applied proactively, risk-based authentication can be integrated with the login process and used to block from the beginning access to users flagged as risky. In contrast, reactive risk-based authentication can be used to identify and revert ongoing or completed transactions considered as risky.

Although proactive risk-based authentication may be considered as more desirable than reactive risk-based authentication, the cost of a misclassification error is far greater in the former than in the latter. In other words, more stringent accuracy requirements underlie proactive approaches compared to reactive ones. Actually, each category is adequate for specific scenarios. While proactive risk based authentication is important in situations where confidentiality is essential such as in military or intelligence transactions, reactive risk-based authentication may be enough in situations where integrity is the primary concern. For instance, in online banking transactions, malicious transactions (e.g. illegal transfer between accounts) can be reverted (immediately) by the end of the session if the user is classified as risky.

In this talk, we propose a new online biometric risk-based authentication system that provides more robust user identity information by combining mouse dynamics and keystroke dynamics biometrics in a multimodal framework. Experimental evaluation of our proposed model with 24 participants yields an Equal Error Rate of 8.21%, which is promising considering that we are dealing with free text and free mouse movements, and the fact that many web sessions tend to be very short. Moreover, we believe this performance is adequate for reactive risk-based authentication, where the goal is not to

prevent the user from using the system, but rather to identify malicious sessions and trigger appropriate risk mitigation measures.

Biography:

Mohammad S. Obaidat (IEEE Fellow and SCS Fellow) is an internationally well-known academic/researcher/ scientist. He received his Ph.D. and M. S. degrees in Computer Engineering with a minor in Computer Science from The Ohio State University, Columbus, Ohio, USA. Dr. Obaidat is currently a full Professor of Computer Science at Monmouth University, NJ, USA. Among his previous positions are Advisor to the President of Philadelphia University for Research, Development and IT, President of SCS, Chair of the Department of Computer Science and Director of the Graduate Program at Monmouth University and a faculty member at the City University of New York. He has received extensive research funding and has published over Fifteen (15) books and over Five Hundred and Sixty (560) refereed technical articles in scholarly international journals and proceedings of international conferences, and currently working on three more books. Professor Obaidat has served as a consultant for several corporations and organizations worldwide.

Mohammad is the Editor-in-Chief of 3 scholarly journals and is also an editor, advisory editor of numerous international journals and transactions including IEEE journals/transactions. He has chaired numerous international conferences and given numerous keynote speeches all over the world. He has guest edited numerous special issues of scholarly journals such as IEEE Transactions on Systems, Man and Cybernetics, SMC, IEEE Wireless Communications, IEEE Systems Journal, SIMULATION: Transactions of SCS, Elsevier Computer Communications Journal, Journal of C & EE, Wiley Security and Communication Networks, Journal of Networks, and International Journal of Communication Systems, among others. Obaidat has served as the steering committee chair, advisory Committee Chair and program chair of numerous international conferences.

He is the founder of two well-known international conferences: The International Conference on Computer, Information and Telecommunication Systems (CITS) and the International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS). He is also the co-founder of the International Conference on Data Communication Networking, DCNET.

Between 1994-1997, Obaidat has served as distinguished speaker/visitor of IEEE Computer Society. Since 1995 he has been serving as an ACM Distinguished Lecturer. He is also an SCS Distinguished Lecturer. Between 1996-1999, Dr. Obaidat served as an IEEE/ACM program evaluator of the Computing Sciences Accreditation Board/Commission, CSAB/CSAC. He has served as the Scientific Advisor for the World Bank/UN Digital Inclusion Workshop- The Role of Information and Communication Technology in

Development. Between 1995-2002, he has served as a member of the board of directors of the Society for Computer Simulation International. Between 2002-2004, he has served as Vice President of Conferences of the Society for Modeling and Simulation International SCS. Between 2004-2006, Prof. Obaidat has served as Vice President of Membership of the Society for Modeling and Simulation International SCS. Between 2006-2009, he has served as the Senior Vice President of SCS. Between 2009-2011, he served as the President of SCS.

Prof. Obaidat received several best papers awards for his papers selected as best papers in IEEE International Conferences including best paper awards in IEEE AICCSA 2009, IEEE GLOBCOM 2009, and DCNET 2011 international conferences. Prof. Obaidat has been awarded a Nokia Research Fellowship and the distinguished Fulbright Scholar Award. He received the SCS Outstanding Service Award for his excellent leadership, services and technical contributions. Dr. Obaidat received very recently the Society for Modeling and Simulation Intentional (SCS) prestigious McLeod Founder's Award in recognition of his outstanding technical and professional contributions to modeling and simulation. He received in Dec 2010, the IEEE ComSoc- GLOBECOM 2010 Outstanding Leadership Award for his outstanding leadership of Communication Software Services and Multimedia Applications Symposium, CSSMA 2010. He received very recently the Society for Modeling and Simulation International's (SCS) prestigious Presidential Service Award for his outstanding unique, long-term technical contributions and services to the profession and society.

He has been invited to lecture and give keynote speeches worldwide. His research interests are: wireless communications and networks, security of communication networks, information and computer systems, security of e-based systems, telecommunications and Networking systems, performance evaluation of computer systems, algorithms and networks, green ICT, high performance and parallel computing/computers, applied neural networks and pattern recognition, adaptive learning and speech processing. During the 2004/2005, he was on sabbatical leave as Fulbright Distinguished Professor and Advisor to the President of Philadelphia University in Jordan, Dr. Adnan Badran. The latter became the Prime Minister of Jordan in April 2005 and served earlier as Deputy Director General of UNESCO. Prof. Obaidat is a Fellow of the Society for Modeling and Simulation International SCS, and a Fellow of the Institute of Electrical and Electronics Engineers (IEEE). For more information: http://bluehawk.monmouth.edu/mobaidat/.

iThings/CPSCom Keynote II

Smart City: Large-Scale Cyber-Physical Systems in Action

Dr. Zhen Liu
IEEE Fellow
Director, ATC, Microsoft ARD
Beijing, China
E-mail: zhenliu@microsoft.com

Abstract:

The world has experienced unprecedented urban growth in recent decades. In 2008, for the first time in history, the world's population was evenly split between urban and rural areas. And, according to the United Nations, nearly 70% of the population will live in cities by the year 2050. This urban immigration generates tremendous opportunities for cities by increasing production, commerce, and human capital. It also generates the challenges in transportation systems, environment, water and energy consumption and more. While these issues are not new, their scale and intensity are unprecedented. For cities to continue to be a viable centers of civilization, commerce and culture, we must find ways to overcome these challenges.

In this talk we shall discuss how IT could help overcome such problems. More specifically, how IT can help build smart cities which are supposed to be much more efficient in energy consumption and in productivity. Smart cities are, in essence, cyber-physical systems with extremely large scale. Building such systems will be nontrivial. We shall discuss various technological challenges and present some initial thoughts and solutions.

Biography:

Zhen Liu joined Microsoft Asia R&D Center in 2012 as the Head of China Innovation Group, based in Beijing. Before joining Microsoft, Zhen was with Nokia as the Head of Nokia Research Center (NRC) Beijing, and then became the Head of NRC Growth Economies Lab, which has research teams in Beijing, Shenzhen, Bangalore and Nairobi. Prior to this experience, Zhen was with IBM T. J. Watson Research Center and served as the manager of System Analysis and Optimization group, and the senior manager of the Next Generation Distributed Systems department. Zhen also worked in Orange Labs (France Telecom R&D) as a Research Associate, and in INRIA (the French national research center on information and automation), first as a Researcher, then became a Research Director.

Zhen has been passionate about both scientific explorations and innovations with industrial impact. He has obtained over 80 patents granted and published over 200 scientific papers in prestigious journals and conferences and got the best paper award at the 37th ICPP. He was master inventor at IBM.

Under Zhen's leadership, his teams transferred a number of technologies to product groups in IBM and in Nokia with significant business impact. The Nokia Research Center lab he led was awarded the Best Research Lab in 2010 in China by World Entrepreneur, and was ranked a few times by ITBrand the Number One of Corporate Research Labs in Asia.

Zhen is a fellow of IEEE. He has served NSF Panels a number of times. He was a member of over 60 conference program committees. Zhen Liu was the general chair of the ACM Sigmetrics 2008 Conference, co-chair of ACM HotMetrics 2008, program co-chair of the Joint Conference of ACM Sigmetrics and IFIP Performance 2004, technical program co-chair of SensorComm 2009, and area technical program committee chair for INFOCOM 2008 and INFOCOM 2009. Zhen is on the editorial boards of several journals including IEEE Transactions on Service Computing and the Journal of Performance Evaluation.

Zhen has given keynotes and distinguished lectures in various conferences and universities. He was an adjunct professor at University of Science and Technology of China and Beijing University of Post and Telecommunications. While he was in France, Zhen was also an adjunct professor of the University of Paris VI (University of Pierre & Marie Curie) and the University of Nice - Sophia Antipolis, France.

His areas of expertise include mobile computing, mobile services, cloud computing, stream processing, real-time analytics, performance modeling, stochastic optimization, service oriented architecture and semantic Web.

iThings/CPSCom Keynote III

IoT/CPS: M2M Communication, Actuation and Coordination Challenges

Professor Ivan Stojmenovic
IEEE Fellow
University of Ottawa, Canada
E-mail: ivan@site.uottawa.ca
http://www.site.uottawa.ca/~ivan

Abstract:

Existing machine-to-machine (M2M) communications incorporate a central point for gathering information, making decision, and acting. Large scale cyber-physical systems (CPS) beyond M2M concept are envisioned with the distributed actuation and in-network processing. Machine-to-machine communication aspects include data dissemination, data aggregation, reporting mechanisms for monitoring, cooperative access. Other related issues that would be explored are modeling, inter-dependency and topology control, and security and privacy. This lecture emphasizes actuation as one of important tools in the future applications of Internet of Things and Cyber Physical Systems architectures. Various existing models for wireless sensor and actuator networks are elaborated. It then concentrates on the network layer issues in wireless sensor and sensor-actuator networks. Coordination between sensors and robots, and robot to robot coordination are then covered with some concrete problem formulations. These include robot dispersion, communication aspects of robot coordination, robot task allocation, and sensor placement and relocation to improve sensing area coverage.

Biography:

Ivan Stojmenovic received his Ph.D. degree in mathematics. He is Full Professor at the University of Ottawa, Canada. He held regular and visiting positions in Serbia, Japan, USA, Canada, France, Mexico, Spain, UK (as Chair in Applied Computing at the University of Birmingham), Hong Kong, Brazil, Taiwan, China and Australia. He published over 300 different papers, and edited seven books on wireless, ad hoc, sensor and actuator networks and applied algorithms with Wiley. He is editor-in-chief of IEEE Transactions on Parallel and Distributed Systems (2010-3), and founder and editor-in-chief of three journals. He is Associate Editor-in-Chief of Tsinghua Journal of Science and Technology, steering committee member of IEEE Transactions on Emergent Topics in Computing, and editor of IEEE Network, IEEE Transactions on Cloud Computing, IEEE Transactions on Computers, ACM Wireless Networks and some other journals. Stojmenovic is on Thomson Reuters list of Highly Cited Researchers (from 2013; <300 computer scientist), has h-index

59, top h-index in Canada for mathematics and statistics, and >13000 citations. He received five best paper awards and the Fast Breaking Paper for October 2003, by Thomson ISI ESI. He received the Royal Society Research Merit Award, UK (2006), and Humboldt Research Award, Germany (2012). He is Tsinghua 1000 Plan Distinguished Professor (2012-5). He is Fellow of the IEEE (Communications Society, class 2008), and Canadian Academy of Engineering (since 2012), and Member of the Academia Europaea (The Academy of Europe), from 2012 (section: Informatics). He was IEEE CS Distinguished Visitor 2010-11 and received 2012 Distinguished Service award from IEEE ComSoc Communications Software TC. He received Excellence in Research Award of the University of Ottawa 2009. Stojmenovic chaired and/or organized >60 workshops and conferences, and served in >200 program committees. He was program co-chair at IEEE PIMRC 2008, IEEE AINA-07, IEEE MASS-04&07, founded several workshop series, and is/was Workshop Chair at IEEE ICDCS 2013, IEEE INFOCOM 2011, IEEE MASS-09, ACM Mobihoc-07&08.

iThings/CPSCom Keynote IV

Intelligent Transportation Systems with Infrastructure and Vehicle Sensors

Professor Xindong Wu
Department of Computer Science,
University of Vermont, USA.
E-mail: xwu@uvm.edu

Abstract:

This talk will discuss the great opportunities provided by the rich real-time and historical data collected by both infrastructure sensors (such as in-road reflectors) and vehicle sensors in intelligent transportation systems. With the data from infrastructure sensors, traffic prediction can reduce travel delays by facilitating better utilization of available traffic capacity. With the data from vehicle sensors, a driver's driving habit can be modeled, the driver can be identified from the sensor data collected during driving, and personalized driving advice may be provided.

Biography:

Xindong Wu is a Professor of Computer Science at the University of Vermont (USA), a Yangtze River Scholar in the School of Computer Science and Information Engineering at the Hefei University of Technology (China), and a Fellow of the IEEE and the AAAS. He holds a PhD in Artificial Intelligence from the University of Edinburgh, Britain. His research interests include data mining, knowledge-based systems, and Web information exploration. He has published over 280 refereed papers in these areas in various journals and conferences, including IEEE TPAMI, TKDE, ACM TOIS, DMKD, KAIS, IJCAI, AAAI, ICML, KDD, ICDM, and WWW, as well as 33 books and conference proceedings. His research has been supported by the U.S. National Science Foundation (NSF), the U.S. Department of Defense (DOD), the National Natural Science Foundation of China (NSFC), and the Ministry of Science and Technology of China, as well as industrial companies including Microsoft Research, U.S. West Advanced Technologies and Empact Solutions.

Dr. Wu is the founder and current Steering Committee Chair of the IEEE International Conference on Data Mining (ICDM), the founder and current Editor-in-Chief of Knowledge and Information Systems (KAIS, by Springer), the Founding Chair (2002-2006) of the IEEE Computer Society Technical Committee on Intelligent Informatics (TCII), and a Series

Editor of the Springer Book Series on Advanced Information and Knowledge Processing (AI&KP). He was the Editor-in-Chief of the IEEE Transactions on Knowledge and Data Engineering (TKDE, by the IEEE Computer Society) between January 1, 2005 and December 31, 2008. He served as Program Committee Chair/Co-Chair for ICDM '03 (the 2003 IEEE International Conference on Data Mining), KDD-07 (the 13th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining), and CIKM 2010 (the 19th ACM Conference on Information and Knowledge Management).

Professor Wu is the 2004 ACM SIGKDD Service Award winner, the 2006 IEEE ICDM Outstanding Service Award winner, and a 2012 IEEE Computer Society Technical Achievement Award recipient "for pioneering contributions to data mining and applications". He won the Best Paper Award from the 2005 and 2011 IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2005 & 2007) and the 2012 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2012). He has been an invited/keynote speaker at over 30 international conferences including IEEE GrC 2012, IEEE ICDM 2010, PAKDD 2007, IEEE EDOC 2006, IEEE ICTAI 2004, IEEE/WIC/ACM WI-2004/IAT-2004, SEKE 2002, and PADD 1997.

iThings/CPSCom Keynote V

The Internet of Things (IoT) Big Data Analytics

Professor Mahmoud Daneshmand
Business Intelligence & Analytics
Howe School of Technology Management

Computer Science
School of Engineering & Science
Stevens Institute of Technology
Hoboken, NJ, USA
mahmoud.daneshmand@stevens.edu

Emeritus Distinguished Member of Technical Staff
Assistant Chief Scientist
AT&T Shannon Labs – Research
Florham Park, NJ, USA

Abstract:

The Big Data of the future is generated by billions of “things” connected to the Internet. The term Internet of Things (IoT), born 2009, may be simplified as “Sensors/RFID devices + Communications”. It is estimated that by 2020, 50 billion sensors/RFID devices will be generating data on all aspects of the human life: health, environment, transportations, security, shopping, home, etc. The Biggest Challenge of the Big Data is management and mining of ever-increasing streams of data generated by these devices.

This talk will focus on management and mining of IoT Big Data. Emphasis will be on data accuracy, data mining techniques, and future research direction of real time large scale stream data mining.

Biography:

Mahmoud Daneshmand is Professor of Business Intelligence & Analytics at Howe School of Technology Management as well as Computer Science at School of Engineering and Sciences, Stevens Institute of Technology. He has more than 35 years of teaching, research & publications, consultation, and management experience in academia & industry including: Bell Laboratories, AT&T Shannon Labs – Research, University of California at Berkeley, University of Texas at Austin, Sharif University of Technology, University of Tehran, New York University, and Stevens Institute of

Technology.

He has served as Distinguished Member of Technical Staff (DMTS) at Bell Labs as well as AT&T Shannon Labs -Research; Assistant Chief Scientist of AT&T Labs; Founder and Executive Director of the AT&T Labs university collaborations program. He is an Industry Professor at Howe School of Technology Management and Department of Computer Science, Co-Founder of the Business Intelligence & Analytics MS program at Stevens Institute of Technology. He is an expert in Big Data Analytics, Internet of Things (IoT)/Sensor & RFID Data Streams, Data Mining Algorithms, Machine Learning, Probability & Stochastic Processes, and Statistics.

He has been active with IEEE Journals editorships & publications including Guest Editor as well as IEEE conferences: Guest Editor of several IEEE journals; Chair of Steering Committee of New IEEE Internet of Things Journal; keynote speaker of many IEEE conferences; Executive Committee of Globecom as well as ICC; Chair of Steering Committee of IEEE ISCC; and General Chair and Technical Chair of many IEEE conferences.

iThings/CPSCom Keynote VI

Primate-inspired Heterogeneous Mobile and Static Sensor Networks

Professor Yang Xiao
Department of Computer Science,
The University of Alabama,
Tuscaloosa, AL 35487-0290 USA
E-mail: yangxiao@cs.ua.edu

Abstract:

Although previous bio-inspired models have concentrated on invertebrates (such as ants), mammals such as primates with higher cognitive function are valuable for modeling the increasingly complex problems in engineering. Understanding primates' social and communication systems, and applying what is learned from them to engineering domains is likely to inspire solutions to a number of problems.

This talks introduce studying and modeling modes of group behavior and communication of coppery titi monkeys, rhesus macaques, and other primate models, and applying what the investigators learn to the distributed control of heterogeneous mobile and static sensor networks including assessment of the effectiveness of small and large group formations in heterogeneous mobile and static sensor networks, development of bio-inspired message-based communications, and development of bio-inspired behavior-based communications.

Biography:

Yang Xiao worked in industry as a MAC (Medium Access Control) architect involving the IEEE 802.11 standard enhancement work before he joined academia. He currently is a full professor of Department of Computer Science at The University of Alabama. He was a voting member of IEEE 802.11 Working Group from 2001 to 2004. His research areas are security and communications/networks. He has published more than 200 refereed journal papers (including 50 IEEE/ACM Transactions papers) and over 200 refereed conference papers and book chapters related to these research areas. He currently serves as Editor-in-Chief for International Journal of Sensor Networks (IJSNet) (SCI-index with impact factor 1.386 for 2011) and International Journal of Security and Networks (IJSN).

GreenCom Keynote I

Rethink Shannon Towards Green

Dr. Chih-Lin I
Department of Electrical Engineering,
Stanford University,
Chief Scientist, Wireless Technologies
China Mobile Research Institute
Email: icl@chinamobile.com

Abstract:

The rapid adoption of Smart Phones has triggered an explosive growth of mobile Internet applications. China Mobile has observed 81 times traffic growth over the past 5 years, and it has been the common consensus that there will be another 1000x traffic load increase by year 2020. Unfortunately, the ARPU growth curve is believed to be much flatter. As the world's largest mobile service provider, China Mobile is facing a big challenge to figure out a technical road map to increase its network capacity dramatically while keeping the TCO at a reasonable level to maintain its viability. To this end, we envision increasing importance of making our network green. The extension of classic Shannon theory from scalar domain to vector domain 20 years ago gave the birth of MIMO system, and has been supporting the sustainable development of wireless system all long. How will Shannon theory perform in the new green era? Is it out-of-date or reborn as a new "the one"? This presentation will share our vision and staged R&D effort marching toward green.

Biography:

Chih-Lin I, Ph.D. in Electrical Engineering from Stanford University, has almost 30 years experience in wireless communication area. She has worked in various world-class companies and research institutes, including wireless communication fundamental research department of AT&T Bell Labs; Headquarter of AT&T, as Director of Wireless Communications Infrastructure and Access Technology; ITRI of Taiwan, as Director of Wireless Communication Technology Department; Hong Kong ASTRI, as VP and GD of Communications Technology Domain. She was an elected Board Member of IEEE ComSoc, and the Founding Chair of IEEE WCNC Steering Committee. She is currently an Executive Board Member of GreenTouch, a winner of CCCP "National 1000 talent" program, China Mobile Chief Scientist of Wireless Technologies, Head of Green Communication Research Center (GCRC) of China Mobile Research Institute (CMRI), in charge of advanced wireless communication R&D effort of CMRI.

GreenCom Keynote II

Towards Carrier Cloud

Dr. Tarik Taleb
Senior Researcher and 3GPP Standards Expert
NEC Europe Ltd, Heidelberg, Germany
Email: tarik.taleb@nw.neclab.eu

Abstract:

Mobile operators are in need of means to cope with the ever-increasing mobile data traffic, introducing minimal additional capital expenditures on existing infrastructures, principally due to the modest Average Revenues Per User (ARPU). Network virtualization and cloud computing techniques, along with the principles of the latter in terms of service elasticity, on-demand, and pay-per-use could be important enablers for various mobile network enhancements and cost reduction. This talk discusses the recent trends the mobile telecommunications market is experiencing, showcasing some of the emerging consumer products and services that are facilitating such trends. The talk also discusses the challenges these trends are representing to mobile network operators. The talk also demonstrates the possibility of extending cloud computing beyond data centers towards the mobile end-user, providing end-to-end mobile connectivity as a cloud service. The talk introduces a set of technologies and methods for the on-demand provision of a decentralized and elastic mobile network as a cloud service over a distributed network of cloud-computing data centers; federated cloud. The concept of Follow-Me-Cloud whereby not only data but also mobile services are intelligently following their respective users is also introduced. The novel business opportunities behind the envisioned carrier cloud architecture and service are also discussed, considering various multi-stakeholder scenarios.

Biography:

Tarik Taleb is currently working as Senior Researcher and 3GPP Standards Expert at NEC Europe Ltd, Heidelberg, Germany. Prior to his current position and untill Mar. 2009, he worked as assistant professor at the Graduate School of Information Sciences, Tohoku University, Japan, in a lab fully funded by KDDI, the second largest network operator in Japan. From Oct. 2005 till Mar. 2006, he was working as research fellow with the Intelligent Cosmos Research Institute, Sendai, Japan. He received his B. E degree in Information Engineering with distinction, M.Sc. and Ph.D. degrees in Information Sciences from GSIS, Tohoku Univ., in 2001, 2003, and 2005, respectively.

Dr. Taleb's research interests lie in the field of architectural enhancements to mobile core networks (particularly 3GPP's), mobile cloud networking, mobile multimedia streaming, congestion control protocols, handoff and mobility management, inter-vehicular communications, and social media networking. Dr. Taleb has been also directly engaged in the development and standardization of the Evolved Packet System as a member of 3GPP's System Architecture working group. Dr. Taleb is a board member of the IEEE Communications Society Standardization Program Development Board. As an attempt to bridge the gap between academia and industry, Dr. Taleb has founded and has been the general chair of the "IEEE Workshop on Telecommunications Standards: from Research to Standards", a successful event that got awarded "best workshop award" by IEEE Communication Society (ComSoC).

Dr. Taleb is/was on the editorial board of the IEEE Wireless Communications Magazine, IEEE Transactions on Vehicular Technology, IEEE Communications Surveys & Tutorials, and a number of Wiley journals. He is serving as vice-chair of the Wireless Communications Technical Committee, the largest in IEEE ComSoC. He also served as Secretary and then as Vice Chair of the Satellite and Space Communications Technical Committee of IEEE ComSoc (2006 - 2010). He has been on the technical program committee of different IEEE conferences, including Globecom, ICC, and WCNC, and chaired some of their symposia.

Dr. Taleb is the recipient of the 2009 IEEE ComSoc Asia-Pacific Best Young Researcher award (Jun. 2009), the 2008 TELECOM System Technology Award from the Telecommunications Advancement Foundation (Mar. 2008), the 2007 Funai Foundation Science Promotion Award (Apr. 2007), the 2006 IEEE Computer Society Japan Chapter Young Author Award (Dec. 2006), the NiwaYasujirou Memorial Award (Feb. 2005), and the Young Researcher's Encouragement Award from the Japan chapter of the IEEE Vehicular Technology Society (VTS) (Oct. 2003). Some of Dr. Taleb's research work has been also awarded best paper awards at prestigious conferences. Dr. Taleb is a senior IEEE member.

GreenCom Keynote III

How Densely Should the Data Base Stations be Deployed in Hyper-Cellular Networks?

Professor Zhisheng Niu
Tsinghua National Lab for Information Science and Technology
Tsinghua University, Beijing 100084, China
E-mail: niuzhs@tsinghua.edu.cn

Abstract:

One of the key approaches to make the mobile communication networks more GREEN (Globally Resource-optimized and Energy-Efficient Networks) is to have the cellular architecture and radio resource allocation more adaptive to the environment and traffic variations, including making some lightly-loaded base stations (BSs) go to sleep. This is the concept of so-called TANGO (Traffic-Aware Network planning and Green Operation) and CHORUS (Collaborative and Harmonized Open Radio Ubiquitous Systems) published by the author earlier. To realize this, a new cellular framework, named hyper-cellular networks (HCN), has been proposed, in which the coverage of control signals is decoupled from the coverage of data signals so that the data coverage can be more elastic in accordance with the dynamics of traffic characteristics and QoS requirements. Specifically, the data base stations (DBSs) in HCN can be densely deployed during peak traffic time in order to satisfy the capacity requirement, while a portion of DBSs can be switched off or go to sleep mode if the traffic load is lower than a threshold in order to save energy. A fundamental question then arises: how densely should the DBSs be deployed in order to balance the QoS requirements and the energy consumption in hyper cellular networks?

In this talk, we characterize the optimal DBS density for both homogeneous and heterogeneous hyper cellular networks to minimize network cost with stochastic geometry theory. For homogeneous cases, both upper and lower bounds of the optimal DBS density are derived. For heterogeneous cases, our analysis reveals the best type of DBSs to be deployed for capacity extension or to be switched off for energy saving. Specifically, if the ratio between the micro DBS cost and the macro DBS cost is lower than a threshold, which is a function of path loss and their transmit power, then the optimal strategy is to deploy micro DBSs for capacity extension or to switch off macro DBSs (if possible) for energy saving with higher priority. Otherwise, the optimal strategy is the opposite. Based on the parameters from EARTH, numerical results show that in the dense urban scenario, compared to the traditional macro-only homogeneous cellular network with no DBS sleeping, deploying micro DBSs can reduce about 40% of the total energy cost, and further reduce about 20% with DBS sleeping capability.

Biography:

Zhisheng Niu graduated from Northern Jiaotong University (currently Beijing Jiaotong University), Beijing, China, in 1985, and got his M.E. and D.E. degrees from Toyohashi University of Technology, Toyohashi, Japan, in 1989 and 1992, respectively. After spending two years at Fujitsu Laboratories Ltd., Kawasaki, Japan, he joined with Tsinghua University, Beijing, China, in 1994, where he is now a professor at the Department of Electronic Engineering and the deputy dean of the School of Information Science and Technology. His major research interests include queueing theory, traffic engineering, mobile Internet, radio resource management of wireless networks, and green communication and networks.

Dr. Niu has been an active volunteer for various academic societies, including council member of Chinese Institute of Electronics (2006-10), vice chair of the Information and Communication Network Committee of Chinese Institute of Communications (2008-12), Councilor of IEICE-Japan (2009-11), and membership development coordinator of IEEE Region 10 (2009-10). In particular, in IEEE Communication Society, he has been serving as an editor of IEEE Wireless Communication Magazine (2009-12), director of Asia-Pacific Region (2008-09), director for Conference Publications (2010-11), chair of Beijing Chapter (2001-08), and members of Award Committee (2011-13), Emerging Technologies Committee (2010-12), On-line Content Committee (2010-12), and Strategy Planning Committee. He has also been serving as general co-chairs of APCC'09/WiCOM'09, TPC co-chairs of APCC'04/ICC'08/WOCC'10/ICCC'12, panel co-chair of WCNC'10, tutorial co-chairs of VTC'10-fall/Globecom'12, and publicity co-chairs of PIMRC'10/WCNC'02.

Prof. Niu is a co-recipient of the Best Paper Awards from the 13th and 15th Asia-Pacific Conference on Communication (APCC) in 2007 and 2009, respectively, and received the Outstanding Young Researcher Award from Natural Science Foundation of China in 2009. He is now the Chief Scientist of the National Fundamental Research Program (so called "973 Project") of China "Fundamental Research on the Energy and Resource Optimized Hyper-Cellular Mobile Communication System" (2012-2016), which is the first national project green communications in China. He is the fellow of IEEE and IEICE, and a distinguished lecturer of IEEE Communication Society (2012-2013).

Session CN: Communications and Networking

- **Session CN #1/3**

Session Chair: Ihsen Ouedraogo (ihsen.o@uec.ac.jp)

Time: 8:20-10:00, Thursday, August 22, 2013

Location: Tianhong 1, Park Plaza Beijing Science Park Hotel

Delaunay Triangulation Based Green Base Station Operation for Self Organizing Network
Gilsoo Lee, Hongseok Kim, Young-Tae Kim, Byoung-Hoon Kim

e-STAB: Energy-Efficient Scheduling for Cloud Computing Applications with Traffic Load Balancing
Dzmitry Kliazovich, Sisay Arzo, Fabrizio Granelli, Pascal Bouvry, Samee U. Khan

Watts2Share: Energy-Aware Traffic Consolidation
Ekhiotz Jon Vergara, Simin Nadjm-Tehrani

On Fixed-Path Variable-Bandwidth Scheduling in High-performance Networks
Liudong Zuo, Mustafa Khaleel, Michelle Mengxia Zhu, Chase Qishi Wu

- **Session CN #2/3**

Session Chair: Changqing Luo (chq_luo@hust.edu.cn)

Time: 10:20-12:25, Thursday, August 22, 2013

Location: Tianhong 1, Park Plaza Beijing Science Park Hotel

Geographic Multipath Routing in Duty-cycled Wireless Sensor Networks with Energy Harvesting
Guangjie Han, Yuhui Dong, Lei Shu, Hui Guo, Jianwei Niu

A Power Consumption Reduction Scheme in Hose-Model Networks with Bundled Links
Seydou Ba, Ihsen Aziz Ouédraogo, Eiji Oki

Caching Design in Green Content Centric Networking Based on Chemical Reaction Optimization
Renchao Xie, Tao Huang, F. Richard Yu, Yunjie Liu

GA-based Green SFN Planning for DTMB
Caiwei Li

- **Session CN #3/3**

Session Chair: Renchao Xie (xierc@chinaunicom.cn)

Time: 8:20-10:00, Thursday, August 22, 2013

Location: Tianhong 2, Park Plaza Beijing Science Park Hotel

Optimization of Renewable Green Base Station Deployment
Turgay Pamuklu, Cem Ersoy

Study of Dynamic Topology Change for Total Energy Consumption in Green IP Networks
Steven S. W. Lee, Kuang-Yi Li

Energy-efficient Dynamic Network Selection in Heterogeneous Wireless Networks
Changqing Luo, Chao Qian, Fei Hao, Laurence T. Yang, Geyong Min

Session DHSMT: Devices, Hardware, Software, Methodologies, and Tools

- **Session DHSMT #1/2**

Session Chair: Maryline Chetto (maryline.chetto@UNIV-NANTES.FR)

Time: 8:20-10:00, Thursday, August 22, 2013

Location: Tianhong 3, Park Plaza Beijing Science Park Hotel

Power Management for High-Performance Applications on Network-on-Chip-based Multi-processors
Adan Kohler, Martin Radetzki

Stability and Robustness Issues in Real-time Sustainable Wireless Sensors
Maissa Abdallah, Maryline Chetto, Audrey Queudet, Rafic Hage Chehade

Estimating the Energy Consumption of Executing Software Processes
Vivek Singh, Kaushik Dutta, Debra VanderMeer

Reactive DVFS Control for Multicore Processors
Jean-Philippe Halimi, Benoit Pradelle, Amina Guermouche, Nicolas Triquenaux, Alexandre Laurent, Jean Christophe Beyler, William Jalby

- **Session DHSMT #2/2**

Session Chair: Maryline Chetto (maryline.chetto@UNIV-NANTES.FR)

Time: 10:20-11:10, Thursday, August 22, 2013

Location: Tianhong 3, Park Plaza Beijing Science Park Hotel

A Polymorphic Green Service Approach for Data Center Energy Consumption Management
Fawaz AL-Hazemi

A User Friendly Phase Detection Methodology for HPC Systems' Analysis
Ghislain Landry Tsafack Chetsa, Laurent Lefevre, Jean-Marc Pierson, Stolf Patricia, Georges Da Costa

Session ESAEI: Economics, Social Networks, Applications, and Emerging Interdisciplinary

Session Chair: William Campbell (william.campbell@bcu.ac.uk)

Time: 10:20-12:25, Wednesday, August 21, 2013

Location: Golden 3, Park Plaza Beijing Science Park Hotel

An Exploration of the Impact of Organizational Culture on the Adoption of Green IT
William Campbell, Martyn Ratcliffe, Philip T Moore

Energy Consumption and Efficiency in Mobile Applications: A User Feedback Study
Claas Wilke, Sebastian Richly, Sebastian Götz, Christian Piechnick, Uwe Aßmann

Session MMASA: Metrics, Models, Algorithms, Systems, and Architecture

Session Chair: Ghislain Landry Tsafack Chetsa(ghislain.landry.tsafack.chetsa@ens-lyon.fr)

Time: 10:20-12:25, Wednesday, August 21, 2013

Location: Tianhong 2, Park Plaza Beijing Science Park Hotel

Collaborative Sleeping Scheme for Femtocell Networks
Yun Li, Yufang Jia, Yong Wang, Qilie Liu

Energy Aware Resource Management for Clusters of Web Servers
Simon Kiertscher, Bettina Schnor

Base Station Sleeping with Dynamical Clustering Strategy of CoMP in LTE-Advanced
Yun Li,Yafei Ma, Yong Wang, Weiliang Zhao

Energy-Efficient Scheduling for Multicore Systems with Bounded Resources
Ziliang Zong, Rong Ge, Xin Li, Zizhong Chen

Session OACCS: Optimization and/or Analysis in Communications, Computing, and Smart Grids

- **Session OACCS #1/2**

Session Chair: Cejo Lonappan (cejo@ucla.edu)

Time: 8:20-10:00, Wednesday, August 21, 2013

Location: Tianhong 3, Park Plaza Beijing Science Park Hotel

Accurate and Low-Overhead Process-level Energy Estimation for Modern Hard Disk Drives
Jun Yan, Cejo Lonappan, Amir Vajid, Digvijay Singh, William Kaiser

Robust Redundancy Elimination for Energy-aware Routing
Martin Tieves, Arie M. C. A. Koster, David Coudert, Truong Khoa Phan

SESAMES: A Smart-Grid Based Framework for Consuming Less and Better in Extreme-Scale Infrastructures
Mohammed El Mehdi Diouri, Olivier Gluck, Laurent Lefevre

On Cooperative Energy-Efficient P2P Live Streaming System for Mobile Hotspots
Ming-Hung Chen, Cheng-Fu Chou, Ke-Han Lee, Chun-Yuan Chang

- **Session OACCS #2/2**

Session Chair: Changqing Luo (chq_luo@hust.edu.cn)

Time: 10:20-12:25, Wednesday, August 21, 2013

Location: Tianhong 3, Park Plaza Beijing Science Park Hotel

Frequency-Utilization Based Power-Aware Schedule Policy for Real-Time Multi-cores System
Lin Zhou, Lei Yu

Optimized Thermal-Aware Workload Distribution Considering Allocation Constraints in Data Centers
Hassan Shamalizadeh, Luis Almeida, Senbo Fu, Shuai Wan, K. Shashi Prabh

Session SBDCC: Storage, Big Data, and Cloud Computing

- **Session SBDCC #1/2**

Session Chair: Chase Qishi Wu (qishiwu@memphis.edu)

Time: 8:20-10:00, Wednesday, August 21, 2013

Location: Tianhong 1, Park Plaza Beijing Science Park Hotel

TARGO: Transition and Reallocation Based Green Optimization for Cloud VMs
Daren Fang, Xiaodong Liu, Lin Liu, Hongji Yang

Designing a Power-aware Replication Strategy for Storage Clusters
Lingwei Zhang, Yuhui Deng

Energy-aware Workflow Job Scheduling for Green Clouds
Fei Cao, Michelle Mengxia Zhu

Follow-Me Cloud: An OpenFlow-based Implementation
Tarik Taleb, Peer Hasselmeyer, Faisal Mir

- **Session SBDCC #2/2**

Session Chair: Sau-Hsuan Wu (sauhsuan@cm.nctu.edu.tw)

Time: 10:20-12:25, Wednesday, August 21, 2013

Location: Tianhong 1, Park Plaza Beijing Science Park Hotel

A Heuristics Approach for Reducing Power Consumption of Cloud Data Center
Fei Zhang, Yizhou Yan, Wu Wenjun, Liang Luo

Assessment Criteria for Trust Models in Cloud Computing
Ayesha Kanwal

Minimizing Latency in Fetching Virtual Machine Images Based on Multi-Point Collaborative Approach
Binbin Huang, Rongheng Lin, Kai Peng, Hua Zou, FangChun Yang

Estimating the Power Consumption of an Idle Virtual Machine
Flavien Quesnel, Hemant Kumar Mehta, Jean-Marc Menaud

Green Spectrum Sharing in a Cloud-Based Cognitive Radio Access Network
Sau-Hsuan Wu, Hsi-Lu Chao, Chun-Hsien Ko, Shang-Ru Mo, Chiau-Feng Liang, Chung Chieh Cheng

Session SPTC: Security, Privacy, and Trust Computing

Session Chair: Yean-Fu Wen (yeanfu@mail.ncyu.edu.tw)

Time: 8:20-10:00, Wednesday, August 21, 2013

Location: Tianhong 2, Park Plaza Beijing Science Park Hotel

Dynamic Adjustment of the Chaos-based Security in Real-time Energy Harvesting Sensors
Safwan El Assad, Mousa Farajallah, Maryline Chetto

On the Key Revocation Schemes in Wireless Sensor Networks
Dieynaba Mall, Karim Konate, Al-Sakib Khan Pathan

A Social-Enhanced Data Verification Framework Against Pollution Attacks in P2P Live Streaming

Ming-Hung Chen, Ko-Jo Lee, Cheng-Fu Chou, Chun-Yuan Chang

Identifying Interest Flooding in Named Data Networking

Jianqiang Tang, Zhongyue Zhang, Ying Liu, Hongke Zhang

Session Short Paper Sub-Track

Session Chair: Ioana Pisica (ioanapisica@gmail.com)

Time: 10:20-12:00, Thursday, August 22, 2013

Location: Tianhong 2, Park Plaza Beijing Science Park Hotel

IC Design of a Low-power Analog LDPC Decoder Employing New Stopping Iteration Method

Wen-Ta Lee

A Server Friendly File Synchronization Mechanism for Cloud Storage

Chao Yang, Ye Tian, Di Ma, Wei Mao

Temporal Power Model for Effective Usage in Data Center

Fawaz AL-Hazemi

Investigation of Data Communication Networks to Enable Demand Response and Dynamic Tariffs

Ioana Pisica

Energy-Efficient Networks with Optimal Traffic Splitting

Ruchaneeya Leepila, Eiji Oki, Naoto Kishi

Session ABSSI: Applications, Business, Standards, and Social Issues

- **Session ABSSI #1/2**

Session Chair: Beihong Jing (jbh@otcaix.iscas.ac.cn)

Time: 14:00-15:40, Wednesday, August 21, 2013

Location: Golden 3, Park Plaza Beijing Science Park Hotel

Smart acoustic-enabled Objects for innovative Services
Danilo Hollosi, György Nagy, René Rodigast, Stefan Goetze, Philippe Cousin

Design and Implement of an EPC Encoding and Decoding System for Enterprise Application
Huiqun Zhao, Biao Shi

A Social Web of Things Approach to a Smart Campus Model
Yacine Atif, Sujith Mathew

ALMA, A Logistic Mobile Application based on Internet of Things
Didier El Baz, Julien Bourgeois, Toufik Saadi, Alessandro Bassi

- **Session ABSSI #2/2**

Session Chair: Didier (elbaz@laas.fr)

Time: 16:00-18:20, Wednesday, August 21, 2013

Location: Golden 3, Park Plaza Beijing Science Park Hotel

Plantation Monitoring System Based on Internet of Things
Yixiong Wang, Jun Song, Xiaofeng Liu, Shan Jiang, YunFei Liu

Design of GSM-based Tele-Monitoring and Alarm System for Disposable Diaper
Taichun Qin, Xiaogang Li, Yahui Wang, Ziwei Liu

An Immune Theory Based Health Monitoring and Risk Evaluation of Earthen Sites with Internet of Things
Yun Xiao, Xiaojiang Chen, Lin Wang, Wei Li, Baoying Liu, Dingyi Fang

EGF-Tree: An Energy Efficient Index Tree for Facilitating Multi-Region Query Aggregation in the Internet of Things
Jine Tang, ZhangBing Zhou, Jianwei Niu, Qun Wang

Internet of Things Data Driven Storytelling for Supporting Social Connections
Qiong Wu, Zhiqi Shen, Cyril Leung, Huiguo Zhang, Yundong Cai, Chunyan Miao

An Interactive Approach of Online Software Customization via Conversational Web Agents
Xiaobu Yuan, Xieshen Zhang

Session AI: Architecture and Infrastructure

Session Chair: Dominique Dhoutaut (dominique.dhoutaut@femto-st.fr)

Time: 16:00-18:20, Wednesday, August 21, 2013

Location: Grand Ballroom 3, Park Plaza Beijing Science Park Hotel

Architecture Design of Internet of Things in Logistics Management for Emergency Response
Ran Xu, Lili Yang, Shuanghua Yang

A Scalable IoT Service Search Based on Clustering and Aggregation
Sameh Ben Fredj, Mathieu Boussard, Daniel Kofman, Ludovic Noirie

A Domain Model for the Internet of Things
Stephan Haller, Alexandru Serbanati, Martin Bauer, Francois Carrez

A Mobile Phone based WSN Infrastructure for IoT over Future Internet Architecture
Jun Li, Yanyong Zhang, Yih_Fam Chen, Kiran Nagaraja, Sugang Li, Dipankar Raychaudhuri

Towards an OSGi based Pervasive Cloud Infrastructure
Weishan Zhang, Licheng Chen, Qinghua Lu

Session DSC: Distributed Sensing and Control

Session Chair: Pedro Maló (pmm@uninova.pt)

Time: 14:00-15:40, Wednesday, August 21, 2013

Location: Grand Ballroom 3, Park Plaza Beijing Science Park Hotel

A RSSI Localization Algorithm based on Interval Analysis for Indoor Wireless Sensor Networks
Ligong Li, Yinfeng Wu, Yongji Ren, Ning Yu

Efficient Simulation of distributed Sensing and Control Environments
Dominique Dhoutaut, Benoît Piranda, Julien Bourgeois

A Device-Centric Policy Conflict in IoT
Lijuan He, Xiaofeng Qiu, Teng Gao

Self-Organised Middleware Architecture for the Internet-of-Things
Pedro Malo, Bruno Almeida, Raquel Melo, Kostas Kalaboukas, Philippe Cousin

Session IDPUC: Intelligent Data Processing and Ubiquitous Computing

- **Session IDPUC #1/2**

Session Chair: Changqing Luo (chq_luo@hust.edu.cn)

Time: 14:00-15:40, Wednesday, August 21, 2013

Location: Golden 1, Park Plaza Beijing Science Park Hotel

A Linked-data Model for Semantic Sensor Streams
Payam Barnaghi, Wei Wang, Lijun Dong, Chonggang Wang

Adaptive Channel-based Routing in Content-based PubSub Systems
Sen Li, Yifeng Qian, Yuwei Yang, Beihong Jin

Time Efficient Tag Searching in Multiple Reader RFID Systems
Shigeng Zhang, Xiaoxian He, Hong Song

PDA-based Application and Research for Workshop Internet of Things
Fang Zhiliang, Wang Xin, Yan Guangrong, Ding Tao

- **Session IDPUC #2/2**

Session Chair: Geyong Min

Time: 16:00-18:20, Wednesday, August 21, 2013

Location: Golden 1, Park Plaza Beijing Science Park Hotel

Fuel Consumption Estimates Based on Driving Pattern Recognition
Xiaohua Zhou, Jian Huang, Weifeng Lv, Dapeng Li

Analysis of Travel Time Patterns in Urban Using Taxi GPS Data
Mengdan Gao, Tongyu Zhu, Xuejin Wan, Qi Wang

Efficient Data Gathering in Wireless Sensor Networks Based on Low Rank Approximation
Xinglin Piao, Yongli Hu, Yanfeng Sun, Baocai Yin

Spatio-Temporal Feature Enhanced Semi-supervised Adaptation for Activity Recognition in IoT-based Context-aware Smart Homes
Chao-Lin Wu, Yi-Show Tseng, Li-Chen Fu

A Universal Storage Architecture for Big Data in Cloud Environment
Qingchen Zhang, Zhikui Chen, Liang Zhao, Fangyi Liu

Measuring Data Transfer in Heterogeneous IoT Environments
Márcio Mateus, Pedro Maló, Bruno Almeida, Tiago Teixeira

Session IM: Intelligent Management

Session Chair: Bin Guo

Time: 14:00-15:40, Thursday, August 22, 2013

Location: Golden 3, Park Plaza Beijing Science Park Hotel

IOT-StatisticDB: A General Statistical Database Cluster Mechanism for Big Data Analysis in the Internet of Things
Zhiming Ding, Xu Gao, Jiajie Xu, Hong Wu

Measuring and Understanding Opportunistic Co-Presence Patterns in Smart Office Spaces
Michel Nati, Alexander Gluhak, Flavia Martelli, Roberto Verdone

Random Forest Classification for Detecting Android Malware
Mohammed Alam, Son Vuong

Resource annotation, dissemination and discovery in the Semantic Web of Things: a CoAP-based framework
Michele Ruta, Floriano Scioscia, Agnese Pinto, Eugenio Di Sciascio, Filippo Gramegna,Saverio Ieva, Giuseppe Loseto

Session NC: Networks and Communications

- **Session NC #1/3**

Session Chair: Dominique Dhoutaut (dominique.dhoutaut@femto-st.fr)

Time: 14:00-15:40, Thursday, August 22, 2013

Location: Golden 1, Park Plaza Beijing Science Park Hotel

Streaming the Sound of Smart Cities: Experimentations on the SmartSantander Test-bed
Congduc Pham, Philippe Cousin

An Ad-hoc Smart Gateway Platform for the Web of Things
Darren Carlson, Bashar Altakrouri, Andreas Schrader

The Effect of Hexagonal Grid Topology on the Throughput Benefit of Network Coding
Fuhua Huang, Tao Shang

The M2M Connectivity Framework
Shao-Wen Yang, Yen-Kuang Chen

- **Session NC #2/3**

Session Chair: Darren Carlson (carlson@comp.nus.edu.sg)

Time: 16:00-18:20, Thursday, August 22, 2013

Location: Golden 1, Park Plaza Beijing Science Park Hotel

An Extension of DTFT-based Sinusoidal Signal Time Delay Estimation Algorithm for Linear Time-Varying Situation
Yi Huang, Aiqun Hu, Shengdong Xie

A Progressive Population Estimation Based Binary Query Tree Protocol for Efficient RFID Tag Collision Resolution
Xin-Qing Yan, Yi-Su Wang, Yang Liu, Xue-Mei Liu

A Passive Conformance Testing Method for 6LoWPAN Network
Hua Chai, Xiaohong Huang, Jing Qian, César Viho

A FSM-Based Test Sequence Generation Method for RPL Conformance Testing
Jun Tang, Xiaohong Huang, Jing Qian, César Viho

A Generic SUT Adapter Framework for Protocol Conformance Testing
Jiexi Zha, Xiaohong Huang, Jing Qian, César Viho

Enhanced IEEE 802.11 Power Saving for Multi-Hop Toy-to-Toy Communication
Ioannis Glaropoulos, Stefan Mangold, Vladimir Vukadinovic

- **Session NC #3/3**

Session Chair: Vladimir Vukadinovic (vvuk@disneyresearch.com)

Time: 16:00-18:20, Thursday, August 22, 2013

Location: Golden 3, Park Plaza Beijing Science Park Hotel

Energy-Efficient and Low-Delay Scheduling Strategy for Low Power Wireless Sensor Network
Zheng Zhang, Zhenbo Li, Jiapin Chen

Efficient Simulation Environment of Wireless Radio Communications in MEMS Modular Robots
Nicolas Boillot, Dominique Dhoutaut, Julien Bourgeois

An Improved location Algorithm Based on CC2431
Yinghui Kong, Qingqing Yang

A Location Optimizition Method Based on Communication Requirements to Reconnect Separated Communication Areas after a Disaster
Junbo Wang, Kazuhiro Matsumoto, Yinghui Zhou, Zixue Cheng

Towards the Benefit of Multi-Hop Relaying in Opportunistic Networking
Jianbin Jia, Yingwen Chen, Ming Xu, Geming Xia

Fast Motion Estimation Algorithm Based on H.264
Jian Chen, Xia Mao, Li-jiang Chen

Session SDME: System Design Modeling and Evaluation

- **Session SDME #1/2**

Session Chair: Cheng-Chung Li (ccli.mail@gmail.com)

Time: 14:00-15:40, Wednesday, August 21, 2013

Location: Grand Ballroom 1, Park Plaza Beijing Science Park Hotel

A Passive Testing Approach for Protocols in Internet of Things
Xiaoping Che, Stephane Maag

Design and Implementation of a Smart IoT Gateway
Shang Guoqiang, Chen Yanming, Zuo Chao, Zhu Yanxu

Distributed Resolution of a Trajectory Optimization Problem on a MEMS-based Reconfigurable Modular Surface
Serge Tembo, Didier El-Baz

- **Session SDME #2/2**

Session Chair: Zhiming Ding (zhiming@iscas.ac.cn)

Time: 16:00-18:30, Wednesday, August 21, 2013

Location: Grand Ballroom 1, Park Plaza Beijing Science Park Hotel

Building a Practical Sensing System
Robert Moore, Bernhard Firner, Chenren Xu, Richard Howard, Yanyong Zhang, Richard Martin

Using Patterns of Social Dynamics in the Design of Social Networks of Sensors
Marcello Tomasini, Franco Zambonelli, Ronaldo Menezes

A Theoretical Model to Efficiently Transport YouBike
Cheng-Chung Li, Lingyi Liu

UAI-IOT Framework: a Method of Uniform interfaces to Acquire Information from Heterogeneous Enterprise Information Systems
Hongyu Li, Ye Tian, Yang Liu, Tingli Li, Wei Mao

Emotion Animation of Embodied Conversational Agents with Contextual Control Model
Xiaobu Yuan, Rajkumar Vijayarangan

Session AS: Applications and Services

- **Session AS #1/2**

Session Chair: Alvin Chin (alvin.chin@nokia.com)

Time: 14:00-15:40, Wednesday, August 21, 2013

Location: Tianhong 1, Park Plaza Beijing Science Park Hotel

ContextOS: a Context Aware Operating System for Mobile Devices
Kanishka Ariyapala, Mauro Conti, Chamath Keppitiyagama

Social TV EPG Interaction Design for Multi-screen Environment
Fang You, Jian-Min Wang, Ting Xie, Han Cao, Ze-Long Tang

Design of a Mobile Telephony System for Social Interaction
Yuan-Chih Yu

Smart Business Services via Consumer Purchasing Behaviour Modeling
Runhe Huang, Atsuhi Sato, Toshihiro Tamura, Jianhua Ma, Neil Y. Yen

- **Session AS #2/2**

Session Chair: Mauro Conti (conti@math.unipd.it)

Time: 16:00-18:20, Wednesday, August 21, 2013

Location: Tianhong 1, Park Plaza Beijing Science Park Hotel

A Study of Offline Events and Its Influence on Online Social Connections in Douban
Alvin Chin, Junwei Han, Jianwei Niu, Jilei Tian

In-Situ Web Mashup and Hypermedia Support for Mobile Vision-Based AR Applications
Yu You, Lixin Fan, Alain Boyer, Tuomas Kantonen, Ville-Veikko Mattila

Enhancing Adherence to Cognitive Behavioral Therapy for Insomnia through Machine and Social Persuasion
Yong-Xiang Chen, Hsi-Chung Chen, Li-Xiang Chen, Jia-Wei Hu, Chuen-Kai Shie, Yu-Shan Lin, Pradnya Borade, Chau-Che Yeh, Han-Hong Lin, Siek-Siang Chiang, Yu-Chun Chen, Wei-Zen Sun, Yi-Ping Hung

Smart Signage: An Interactive Signage System with Multiple Displays
James She, Jon Crowcroft, Hao Fu, Pin-Han Ho

Inferring Barriers of Urban City Using Mobile Phone Record
Feng Xiang, Lai Tu, Benxiong Huang

Session CCN: Cloud Computing and Networking

Session Chair: Kehua Guo (guokehua@csu.edu.cn)

Time: 16:00-18:20, Wednesday, August 21, 2013

Location: Tianhong 3, Park Plaza Beijing Science Park Hotel

A Review of Key Issues that Concern the Feasibility of Mobile Cloud Computing
Chunsheng Zhu, Victor C. M. Leung, Xiping Hu, Lei Shu, Laurence T. Yang

Faceted Search in Business Intelligence on the Cloud
Hussain Al-Aqrabi, Lu Liu, Richard Hill, Lei Cui, Jianxin Li

Visualization Toolkits for Multidisciplinary Experiments on Cloud-based Virtual Educational Platform
Xiaowu Chen, Guodong Jia, Faming Li, Rongjiang Pan

A Mobile-sink based Improved Algorithm for Stable Election Protocol with Nonuniform Node Distribution
Jin Wang, Zhongqi Zhang, Jian Shen, Feng Xia, Sungyoung Lee

Efficient Data Collection Algorithm Based on Multiple Mobile Sink Nodes for Wireless Sensor Networks
Jin Wang

Session CSUN: Cyber-physical Systems and Ubiquitous Networks

Session Chair: Jin Wang (wangjin@nuist.edu.cn)

Time: 16:00-18:20, Thursday, August 22, 2013

Location: Tianhong 1, Park Plaza Beijing Science Park Hotel

iCPS-Car: An Intelligent Cyber-Physical System for Smart Automobiles
Sha Zhao, Shijian Li, Longbiao Chen, Yang Ding, Zeming Zheng, Gang Pan

Formal Specification of Cyber Physical Systems: Three Case Studies Based on Clock Theory
Bingqing xu, Lichen Zhang

AMPS: An Adaptive Message Push Strategy for Ubiquitous Terminals
Kehua Guo, Yongling Liu, Jianhua Ma

Reliability Extensions and Multi-Hop Evaluation for Distributed Protocol Stacks
Peter Rothenpieler

An Implementation towards Integrated Simulation of Cyber-Physical Systems
Xiaoyu Li, Yuying Wang, Xingshe Zhou, Dongfang Liang, Chenglie Du

Session DMSA: Data Mining and Semantic Analysis

- **Session DMSA #1/2**

Session Chair: Yongzhao Zhan

Time: 16:00-18:20, Wednesday, August 21, 2013

Location: Tianhong 2, Park Plaza Beijing Science Park Hotel

Community Detection Based on Readers' Borrowing Records
Xin Liu, Haihong E, Junde Song

An Effective IoT Services Indexing and Query Technique
Chu Du, Zhangbing Zhou, Lei Shu, Xiangyang Jia, Qun Wang

Generating Discriminative Visual Vocabulary Based on Fusion of Features
Chang-Sheng Peng

A Semi-Supervised Incremental Learning Algorithm Based on Auto-adaptive Probabilistic Hyper-graph and Its Application for Video Semantic Detection
Jiayao Sun, Yongzhao Zhan

A Video Semantic Analysis Method Based on Kernel Discriminative Sparse Representation and Weighted KNN
Shan Dai, Yongzhao Zhan, Qirong Mao, Shanshan Zhang

- **Session DMSA #2/2**

Session Chair: Zhangbing Zhou (zhangbing.zhou@gmail.com)

Time: 14:00-15:40, Thursday, August 22, 2013

Location: Tianhong 1, Park Plaza Beijing Science Park Hotel

How Long a Passenger Waits for a Vacant Taxi - Large-scale Taxi Trace Mining for Smart Cities
Guande Qi, Gang Pan, Shijian Li, Daqing Zhang, Lin Sun, Laurence Tianruo Yang

On the Evolution of Contacts and Communities in Networks of Face-to-Face Proximity
Mark Kibanov, Martin Atzmueller, Christoph Scholz, Gerd Stumme

Predicting the Content Virality in Social Cascad
Ming Cheung, James She, Lei Cao

Distributed SVM Classification with Redundant Data Removing
XiangJun Shen, Zhen Li, ZhongQiu Jiang, YongZhao Zhan

Session STP: Security, Trustworthiness and Privacy

- **Session STP #1/2**

Session Chair: Lu Liu

Time: 14:00-15:40, Wednesday, August 21, 2013

Location: Tianhong 2, Park Plaza Beijing Science Park Hotel

Implementation of an SMS Spam Control System based on Trust Management
Liang Chen, Zheng Yan, Weidong Zhang, Raimo Kantola

Moments in Time: A Forensic View of Twitter
Chris Howden, Lu Liu

Trust and Risk-based Access Control Model for Zero-Knowledge Oriented Mobile Peer-to-Peer Environments
Zhi-yuan Li, Jun-lei Bi, Lu Liu

Unveil the Spams in Weibo
Kan Chen, Peidong Zhu, Liang Chen, Yueshan Xiong

- **Session STP #2/2**

Session Chair: Dion Goh (ashlgoh@ntu.edu.sg)

Time: 14:00-15:40, Wednesday, August 21, 2013

Location: Tianhong 3, Park Plaza Beijing Science Park Hotel

Privacy-Preserving Point-to-Point Transportation Traffic Measurement through Bit Array Masking in Intelligent Cyber-Physical Road Systems
Yian Zhou, Qingjun Xiao, Zhen Mo, Shigang Chen, Yafeng Yin

Smart Grid Wireless Network Security Requirements Analysis
Khaja Ahmed, Zeyar Aung, Davor Svetinovic

A Query-Aware Location Privacy Protection Approach in LBS for Road Networks
Wei Li, Jiangtao Jiang, Chunlei Liu, Guojun Li

Privacy Disclosure Identification in Social networks
Feng Zhang, Bin Wu, Bai Wang, Feng Gao

A Global Dynamic Queuing Strategy on Scale-free Networks
Xu Pengcheng, Hong Chen

Session SAN: Sensor/Actuator Networks

Session Chair: Zheng Yan (zheng.yan@aalto.fi)

Time: 16:00-18:20, Thursday, August 22, 2013

Location: Tianhong 2, Park Plaza Beijing Science Park Hotel

Integration of Range-Based and Range-Free Localization Algorithms in Wireless Sensor Networks for Mobile Clouds
Yufeng Wang, Qun Jin, Jianhua Ma

Evaluation of the Task Communication Performance in Wireless Sensor Networks: A Queue Theory Approach
Jie Wang, Kuanjiu Zhou, Kai Cui, Gang Hou

Understanding News Sharing in Social Media from the Diffusion of Innovations Perspective
Long Ma, Chei Sian Lee, Dion Goh

Modeling and Predicting the Re-Post Behavior in Sina Weibo
Xinjiang Lu, Zhiwen Yu, Bin Guo, Xingshe Zhou

Session SN: Social Networking

Session Chair: Zhi-yuan Li (lizhiyuan81@126.com)

Time: 14:00-15:40, Thursday, August 22, 2013

Location: Tianhong 2, Park Plaza Beijing Science Park Hotel

Understanding Human Dynamics of Check-in Behavior in LBSNs
Yun Feng, Zhiwen Yu, Xinjiang Lu, Jilei Tian

Social Community-Partition Aware Replica Allocation in Ad-hoc Social Networks
Ahmedin Mohammed Ahmed, Feng Xia, Nana Yaw Asabere, Hannan Bin Liaqat, Jie Li

Follow You from Your Photos
Jie Zhang, Hui Zhao, Yusheng Xie

IEEE CPSCOM 2013 PANEL

Title: Star Trek - The Next Frontier: The Future of Cybermatics

Chair: Ray Cheung, City University of Hong Kong, HK

Time: 10:40-11:40, Wednesday, August 21, 2013

Location: Grand Ballroom 1 & 2 & 3, Park Plaza Beijing Science Park Hotel

Panelists:

Qun Jin, Waseda University, Japan

Habib F. Rashvand, University of Warwick, UK

James She, Hong Kong University of Science and Technology, HK

Xing Xie, Microsoft Research Asia, China

SYMPOSIUM ON FRONTIERS OF INTERNET OF THINGS (SYMIOT)

SymIoT #1/6 – Architecture and Infrastructure

Session Chair: Yanyong Zhang

Time: 14:00-15:40, Wednesday, August 21, 2013

Location: Four Seasons 5, Park Plaza Beijing Science Park Hotel

Residential Energy Management in Smart Grid: A Markov Decision Process-Based Approach
Sudip Misra, Ayan Mondal, Shukla Banik, Manas Khatua, Samaresh Bera, Mohammad S. Obaidat

MOCLO: A Cloud Framework for Mobile Devices
Akash Gangil, Sanjay K. Dhurandher, Mohammad S.Obaidat, Vijit Singh, Sushant Bhatia

Building Smart M2M Applications Using the WuKong Profile Framework
Kwei-Jay Lin, Niels Reijers, Yu-Chung Wang, Chi-Sheng Shih, Jane Hsu

Research on the Framework of Internet of Things in Manufacturing for Aircraft Large Components Assembly Site
Jihong Liu, Jie Yu

Technical State Monitoring and Evaluation of Aerospace Product Manufacturing Workshop Based on Internet of Things
Jihong Liu, Wenting Xu

Interoperability Repository System for IoT
Tiago Teixeira, Pedro Maló, Bruno Almeida, Márcio Mateus

SymIoT #2/6 – Reliability, Security, Privacy and Trust

Session Chair: Kwei-Jay Lin (klin@uci.edu) / Tao Shang (shangtao@buaa.edu.cn)

Time: 16:00-18:20, Wednesday, August 21, 2013

Location: Four Seasons 5, Park Plaza Beijing Science Park Hotel

Pairing and Authentication Security Technologies in Low-Power Bluetooth
Junfeng Xu, Tao Zhang, Dong Lin, Ye Mao, Xin Liu, Shiwu Chen, Shuai Shao, Bin Tian

An Attribute-Based Encryption Scheme with Constant-Size Ciphertexts
Yanfeng Qi, Chunming Tang, Yu Lou, Maozhi Xu, Baoan Guo

Synthetic Evaluation of the trustworthiness of Integrated Monitoring & Controlling System for LED Display Based on Fuzzy AHP
Li Luo, Yuanmei Wen, Xuechen Yu, Yanyu Chen

Construction and Strategies in IoT Security System
Gou Quandeng, Yan Lianshan, Liu Yihe, LI Yao

Frequent Itemset Based Event Detection in Uncertain Sensor Networks
Yongxuan Lai and Jinshan Xie

Integrating Context-awareness and Trustworthiness in IoT Descriptions
Kaiyu Wan, Vangalur Alagar

SymIoT #3/6 – Intelligent Management

Session Chair: Xin Miao (miaox@epri.sgcc.com.cn)

Time: 14:00-15:40, Thursday, August 22, 2013

Location: Four Seasons 5, Park Plaza Beijing Science Park Hotel

From Internet of Things to Internet of Agents
Han Yu, Zhiqi Shen, Cyril Leung

The New Intelligent Prediction for Bus Congestion Based on History Information Processing
Guixi Xiong, Yan Zhang

An Intelligent System for Precast Concrete Element Manufacturing Management Based on RFID Technology
Min Hu, Junyu Lu

A Universal Object Name Resolution Scheme for IoT
Zhiwei Yan, Ning Kong, Ye Tian, Yong-Jin Park

A Space-Time with Weight Algorithm for RFID Data Interpolation
Ming Ke, Xin Wang, Xuhui Chen, Jianxin Tang

SymIoT #4/6 – Applications, Business, Standards and Social Issues

Session Chair: Cyril Leung / Zhangbing Zhou (zhangbing.zhou@gmail.com)

Time: 14:00-15:40, Thursday, August 22, 2013

Location: Four Seasons 6, Park Plaza Beijing Science Park Hotel

Study on Acquisition System of Diversification Heartbeat Information based on Body Sensor Network
Junrong Bao, Jian Li

Integration of Smart Sensor Networks into Internet of Things: Challenges and Applications
Dan Partynski, Simon Koo

A Development Analysis of China's Intelligent Transportation System
Yuxiang Yan, Chenxue Xu

Double Nested Internet of Things for Intelligent Management of Police Equipment
Shengguang Li, Lin Tan, Junxiu Wang, Rui Yu

Research on IPv6 Address Forecast Model of Smart Grid
Xin Miao, Xi Chen

SymIoT #5/6 – Intelligent Data Processing and Ubiquitous Computing

Session Chair: Xin Miao (miaox@epri.sgcc.com.cn)

Time: 16:00-18:20, Thursday, August 22, 2013

Location: Four Seasons 5, Park Plaza Beijing Science Park Hotel

Improved RETE Algorithm in Context Reasoning for Web of Things Environments
Teng Gao, Xiaofeng Qiu, Lijuan He

Data Management for Internet of Things: Challenges, Approaches and Opportunities
Meng Ma, Ping Wang, Chao-Hsien Chu

A Human Trajectory Estimate Based on Individual Mobility Pattern Library
Yang Yang, Bowen Du, Xiao Jiang

Temperature Distribution Recovery Based on Compressive Sensing for Large-Scale Wireless Sensor Networks
Xuan-Xuan Wu, Cheng-Long Chuang, Joe-Air Jiang

Using Kasa method to Separate Target's RCS Characters from Background in Electromagnetic Sensing within Anechoic Chamber Measurement
Jingcheng Zhao, Ming Lv

Discussion on Key technologies in Forestry Fundamental Scientific Information Cloud Service Platform
Mubo Zhang, Zhongming Li, Fan Li

An Anti-collision Algorithm Using Tag Random-dispersing for RFID Systems
Yang Qing, Li Jiancheng, Wang Hongyi, Shen Rongjun

SymIoT #6/6 – Systems Design, Networks, Distributed Sensing

Session Chair: Ping Wang

Time: 16:00-18:20, Thursday, August 22, 2013

Location: Four Seasons 6, Park Plaza Beijing Science Park Hotel

Ultra-low-power Neural Recording Microsystem for Implantable Brain Machine Interface
Hongge Li, Weidong Cao

The Research on Monitoring of Discrete Manufacturing Process Based on Internet of Things
Liuyin Yuan, Yu Guo, Jiajun Jiang, Liyun Nian

Improvement of Peach Platform to Support GUI-based Protocol State Modeling
Hao Wang, Qiaoyan Wen, Zhao Zhang

Game theoretic analysis of Workload Factoring in Federation of Clouds
Changlei Lin, Yonggen Gu, Xiaohong Wu, Jie Tao

Fuzzy Double-Threshold Track Association Algorithm with Adaptive Threshold in Distributed Multisensor-Multitarget Tracking Systems
Wei Du, Huansheng Ning, Yuan Wei, Jun Wang

Relay Node Deployment Based Small World Effect in Hierarchical Industrial Wireless Sensor Networks
Jieyu Wu, Xinyu Shao, Haiping Zhu

Towards an Equitable Federated Name Service for the Internet of Things
Xinchi Li, Yang Liu, Ye Tian, Ning Kong, Yan Wang, Wei Mao

SYMPOSIUM ON FRONTIERS OF CYBER-PHYSICAL-SOCIAL COMPUTING (SYMCPS)

SymCPS #1/4 – Applications, Services and Solutions

Session Chair: Kejun Dong (kevin@cstnet.cn)

Time: 14:00-15:40, Wednesday, August 21, 2013

Location: Four Seasons 6, Park Plaza Beijing Science Park Hotel

Leveraging Social Network APIs for Enhancing Smartphone Apps: An Example of VoIP App
Pin-Fan Lee, Shuchih Ernest Chang

GreenBicylcing: A Smartphone-based Public Bicycle Sharing System for Healthy Life
Yifan Zhao, Longbiao Chen, Chao Teng, Shijian Li, Gang Pan

A Smart Cyber-Physical Systems-Based Solution for Pest Control
Farhad Mehdipour, Krishna Chaitanya Nunna

Just-in-Time Social Cloud: Computational Social Platform to Guide People's Just-in-Time Decisions
Kwan Hong Lee, Andrew Lippman, Alex S. Pentland, Pattie Maes

We Know What You Are -- A User Classification Based On Mobile Data
Duan Hu, Fei Sun, Lai Tu, Benxiong Huang

SymCPS #2/4 – Applications, Services and Solutions

Session Chair: Jianwei Niu (niujianwei@buaa.edu.cn)

Time: 16:00-18:20, Wednesday, August 21, 2013

Location: Four Seasons 6, Park Plaza Beijing Science Park Hotel

Modeling Effects of Physical Factors on Controller Area Network in Cyber-physical Systems
Bo Shen, Xingshe Zhou, Gang Yang, Ru Wang

Detecting Flu Transmission by Social Sensor in China
Jiangmiao Huang, Hui Zhao, Jie Zhang

A Hybrid Content-based Filtering Approach Recommending Microbloggers for Web-based Communities
Kejun Dong, Yi Shen

Towards A Hybrid Approach of Primitive Cognitive Network Process and K-Means Clustering for Social Network Analysis
Chun Guan, Kevin Kam Fung Yuen

Towards Dynamic Resource Provisioning For Traffic Mining Service Cloud
Jianjun Yu, Tongyu Zhu

Multi-Step Sensor Scheduling for Energy-Efficient High-Accuracy Collaborative Target Tracking in Wireless Sensor Networks
Biao Song, Wendong Xiao, Zhaohui Zhang

SymCPS #3/4 –Data Mining, Algorithms and Modelling

Session Chair: Guorui Li (lgr@mail.neuq.edu.cn)

Time: 14:00-15:40, Thursday, August 22, 2013

Location: Tianhong 3, Park Plaza Beijing Science Park Hotel

A Hybrid Emotion Recognition on Android Smart Phones
Weishan Zhang, Xin Meng, Qinghua Lu, Yuan Rao, Jiehan Zhou

Multi-View Approach for Modeling Aerospace Cyber-Physical System
Lichen Zhang

Extending and Recompiling AADL for CPS Modeling
Zhonghao Sun, Xingshe Zhou

A Novel Frequency Hopping Scheme Based on Radio for Aircraft Cognitive
Lei Zhidong, Zhang Xiaolin

Leading Users Detecting Model in Professional Community Question Answering Services
Siqi Song, Ye Tian, Wenwen Han, Xirong Que, Wendong Wang

A Moving Foreground Expansion Method Based on the Gaussian Distribution
Yanhua Li, Wei Li, Xiang Qi

SymCPS #4/4 –Security and Trust

Session Chair: Lichen Zhang (zhanglichen1962@163.com)

Time: 16:00-18:20, Thursday, August 22, 2013

Location: Tianhong 3, Park Plaza Beijing Science Park Hotel

A Compressive Sensing based Secure Data Transmission Scheme
Guorui Li, Ying Wang

IEEE GREENCOM 2013 WORKSHOPS

GreenCom 2013 WS – VeSAN 2013: The International Workshop on Vehicular Sensor and Ad-hoc Networks

Workshop Chair: DeyunGao (gaody@njtu.edu.cn)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: Room 2, Meeting Center, New Main Building, Beihang University

Toward Optimal Additive Noise Distribution for Privacy Protection in Mobile Statistics Aggregation

Hao Zhang, Yonggang Wen, Honggang Hu, Nenghai Yu

Performance Analysis of a Hierarchical Structured VANET

Wanting Zhu

Multilevel Cluster-based Information Fusion in Vehicle Ad Hoc Networks

Weicheng Zhao

PSFCS: Robust Emergency Communications Supporting High-Mobility based-on WiMAX MMR Networks

Wen-Kang Jia, Chia-Yao Chen, Yaw-Chung Chen

GreenCom 2013 WS – GreenCom-Next 2013: The International Workshop on Next Topics for Green Communications and Computing

- **GreenCom-Next #1/3**

Workshop Chair: Fabrice Saffre (fabrice.saffre@bt.com)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: Room 3, Meeting Center, New Main Building, Beihang University

On Energy Efficiency Data Access and Backup for Cloud Computing Networks
Yean-Fu Wen

A Model to Analyze the Energy Savings of Base Station Sleep Mode in LTE HetNets
Paolo Dini, Marco Miozzo, Nicola Bui, Nicola Baldo

Soft Timing Synchronization Algorithm for CPM Signals
Xiangchao Zhou, Rui Xue, Danfeng Zhao, Fu Fang

Secure Framework for the Return Routability Procedure in MIPv6
Chan Yeob Yeun, Khaled Salah, Faisal Al Hawi

- **GreenCom-Next #2/3**

Session Chair: Hanno Hildmann (hanno.hildmann@kustar.ac.ae)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: Room 2, Meeting Center, Beihang University

An Energy Efficient Cache Design for Multi-core Processors
Cao Xiang Rong, Xiaolin Zhang

Analysis Method of Energy for C Source Program and Its Application
Yuechuan Yang

Simulating Stochastic Activation Functions
Hanno Hildmann, Sebastien Nicolas, Fabrice Saffre

Power-efficient Virtual Machine Placement and Migration in Data Centers
Shuo Fang, Renuga Kanagavelu, Bu Sung Lee, Chuan Heng Foh, Khin Mi Mi Aung

- **GreenCom-Next #3/3**

Session Chair: Fabrice Saffre (fabrice.saffre@bt.com)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: Room 3, Meeting Center, Beihang University

IEEE iTHINGS/CPSCOM 2013 WORKSHOPS

BR&A 2013: The International Workshop on Biometric Recognition and its Applications

Session Chair: Junying Gan (junyinggan@163.com) /

Bing Luo (luobing8888@163.com)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: B228, New Main Building, Beihang University

A New Method of Designing High-power Electroplating Power Supply
Yihong He, Shuiyong Yu

The Study of Fusion Image Block and Sparse Representation Classification in Disguised Face Recognition
Junying Gan, Dan Liu, Junying Zeng, Fengxia Tian

SMT Components Model Inspection Based on Characters Image Matching and Verification
Bing Luo, Yuehua Gao, Zhongyu Sun, Sufang Zhao

The Manipulation of Chaotic synchronization quality Based on VCSEL with Optical Feed-back
Dongzhou Zhong

Fast Wavelet Thresholding Algorithms for Face Image Inpainting
Yibin Yu, Jinguo Cao, Yaofang Tang, Junying Gan

Multispectral Palmprint Recognition Using Score-Level Fusion
Yibin Yu, Yaofang, Tang, Jinguo Cao, Junying Gan

Encryption Node Design in Internet of Things Based on Fingerprint Features and CC2530
Bohan Zeng, Xu Wang, Kaili Zhou

Facial Expression Recognition Based on Local Binary Pattern and Gradient Directional Pattern
Wenjin Chu, Zilu Ying, Xiaoxiao Xia

Design of Intelligent Inducing Switch
Fengxia Tian, Yang Zhao

CPSIP 2013: The International Workshop on Cyber Physical Society Information Processing

Workshop Chair: Weining Liu/Shangbo Zhou

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: B216, New Main Building, Beihang University

Identify Online Fraudster with Extended Cellular Automata
Ji Li, Yueliang Xiao

Harmonization of the Cyber-Physical Society Physical
Alex Abramovich, Rashid Khunagov

Influence Analyzing and Modeling of High Frequency Forwarding Microblogs
Shangbo Zhou, Wei Wang, Jie Luo, Li Wan, Yao Zhang

Requirement Specification for Transportation Cyber Physical Systems
Lichen Zhang

Integration-oriented modeling of Cyber-Physical interactive process
Guan Tao, Yang Gang

Web-of-things Framework for WeChat
Yitong Huang, Xiaozheng Lai, Bingpei Dai, Qinyi Chen

CS&IC 2013: The International Workshop on Cyberspace Security and Information Countermeasure

Workshop Chair: Yu Zhang (erbuzhangyu@126.com)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: A209, New Main Building, Beihang University

Simulation Experiment Research of Cyberspace Confront Effectiveness Evaluation
Yu Zhang, Shan-song Chen, and Deping Xie

Technology of Situation Awareness Based on Radar Network in Cyberspace
Xun Yang, Wei Shan, and Liu Jia

Space Information Security and Cyberspace Defense Technology
Kang Su, Qiaozhong Dong, and Weiqiang Zhu

CV2N 2013: The International Workshop on Connected Vehicles and Vehicular Networks

Workshop Chair: Daxin Tian / Dayang Sun (www.sunday@gmail.com)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: Room 6, Meeting Center, New Main Building, Beihang University

Real time vehicle route guidance based on connected vehicles
Daxin Tian, Yong Yuan, Jianshan Zhou, Yunpeng Wang and Guangquan Lu

A Novel Two-timer-based Broadcast Routing Protocol for Vehicular Ad-hoc Networks
Song Fang, Tao Luo

Research of Vehicle Counting Based on DBSCAN in Video Analysis
Dayang Sun, Binbin Li, Zhihong Qian

A Self-adaptive V2V Communication System with DSRC
Daxin Tian, Hao Luo, Zhou Jianshan, Yunpeng Wang and Haiyang Yu

ECTE 2013: The International Workshop on Electromagnetic Characteristics of Target and Environment

- **Session ECTE #1/2**

Session Chair: Hong-Cheng Yin / Xiang-Yang Zhang

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: A212, New Main Building, Beihang University

SAR segmentation and recognition based SCM
Liping Hu, Xiaoyu Xing

EM Scattering Analysis of Complex Target Coated with Plasma by Conformal SO-FDTD Method
Hao-Chuan Deng, Xiao Wei, Hong-Cheng Yin

SAR RAW Data Simulation by Electromagnetic Computation in Frequency Domain
Xupu Geng, Chunzhu Dong, Hongcheng Yin, and Guoqing Zhu

Precession and Structural Parameters Estimation of the Cone-shaped Target Based on the Profile Length
Jing Huang, Chao Ning, Zhihe Xiao

Terahertz Gaussian Beam Scattering by a Conducting Sphere
Liangsheng Li and Hongcheng Yin

Reshaped Window Iterative Super-Resolution Imaging Algorithm
Sheng Li, Liangsheng Li, and Hongcheng Yin

Study on the Influential Factors of Radar Target RCS in Resonance Region
Liang Man, Xiao Wei, Zhihe Xiao

- **Session ECTE #2/2**

Session Chair: Hong-Cheng Yin / Xiang-Yang Zhang

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: A212, New Main Building, Beihang University

A New Method for Estimating Radar Profile Length of a Cone Target
Chao Ning, Jing Huang, Chao Gao, Yong Zhu

The Feature Extraction of Time-Frequency Image Base on Frequency Diversity
Jing Sheng, Zhihe Xiao, Jing Huang

Characteristic Study of Target Micro-Motion Based on the Wavelet Analysis
Yuguang Tian, Chao Ning, Xiangyang Zhang

EDI 2013: The International Workshop on Electromagnetic Detection and Identification

- **Session EDI #1/2**

Session Chair: Yongjun Xie (yjxie@buaa.edu.cn)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: A208, New Main Building, Beihang University

Error Analysis in Calculating RCS using GRECO Method
Zhihua Cheng

Placement Optimization of Vehicular Antenna using Particle Swarm Optimization
Yuru Mao

A Novel Loss Compensated Multipath Power Divider for Frequency Synthesizer
Tongfei Yu

An Approach for Extrapolating Far Field Radar Cross-Section from Near Field Measurement
Gao Chao

Implementation of the Digital Correlation Unit for Synthetic Aperture Interferometric Radiometer
Xianxun Yao

Design Procedures and Considerations of FOD Detection Millimeter-Wave FMCW Radar
Jin Zhang

- **Session EDI #2/2**

Session Chair: Yongjun Xie (yjxie@buaa.edu.cn)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: A208, New Main Building, Beihang University

Exact Design of a Ka Band H-plane Inductance Diaphragm Waveguide Band-pass Filter
Yong Fu

The Compact Microstrip Bandstop Filter Using Equal Width OpenStub
Baohua Yang

The Design and Simulation of Hardware Architecture of the Fast and On-site Assessing System of Scattering Characteristics of Stealth Aircraft Based on Simulink
Tao Hong, Dan Song

EPS 2013: The 2nd International workshop on Engineering Pervasive Service Systems

Workshop Chair: Weishan Zhang (zhangws@upc.edu.cn)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: Room 4, Meeting Center New Main Building, Beihang University

Food Image Recognition Using Pervasive Cloud Computing
Weishan Zhang, Pengcheng Duan and Wenshan Wang

An approach of semantic similarity by combining HowNet and Cilin
Zhang Pei-Ying and Zhang Zhan-Shan

Reconstruction of 3D Maps for 2D Satellite Images
Zhu Lianzhang, Zheng Xuexing and Li Pengfei

Component-based cloud computing service architecture for measurement system
Chao Liu, Qingsong Yu, Tianao Zhang and Zhongwen Guo

e-WiSe 2013: The 2nd International Workshop on Energy and Wireless Sensors

Workshop Chair: Marise Bafleur and Jean-Marie Dilhac (dilhac@laas.fr)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: Room 5, Meeting Center, New Main Building, Beihang University

Towards energy autonomy of wireless sensors in aeronautics applications: SMARTER collaborative project

Jean-Marie Dilhac, Marise Bafleur

Modeling, Validation and Design Analyses of a Piezoelectric Cymbal Transducer for Non-Resonant Energy Harvesting

Meiling Zhu

SPICE Modeling of Piezoelectric Energy Harvesting Device utilizing Stress Influence

Koji Sonoda, Takayuki Fujita, Kensuke Kanda, Kazusuke Maenaka, Hidenori Katsumura, Masaya Tamura, Hiroshi Kagata

Experimental study of a passive impedance matching interface based on a centimeter-size high inductance coil for practically enhanced piezoelectric energy harvester performance at low frequency

Alessandro Giuliano, Meiling Zhu

Design Optimization of Electromagnetic MEMS Energy Harvester with Serpentine Coil

Yuji Tanaka, Takayuki Fujita, Tatsuya Kotoge, Kohei Yamaguchi, Koji Sonoda, Kensuke Kanda, Kazusuke Maenaka

GS&GSP 2013: The International Workshop on Gas Sensors and Gas Sensing Platforms

- **Session GS&GSP #1/2**

Session Chair: Li-Feng Ge (lfge@ahu.edu.cn)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: B204, New Main Building, Beihang University

A Novel Surface Acoustic Wave Sensor for Optical Lens Surface Dirt Detection
Jiuling Liu, Minghua Liu, Wen Wang and Shitang He

Electrical Sensoring Characteristics of Pseudo-LFE Sensors with Different Single Crystals
Zhitian Zhang, Chao Zhang, Wenyan Wang, Yan Liu, Tingfeng Ma

Investigation of Polymer-Coated Film Bulk Acoustic Wave Resonator for Acetone Vapor Detection
Jingjing Wang, Da Chen, Weihui Liu

Detection of benzene series by two-dimensional FAIMS technique
Lehua Zhang, Youjiang Liu, Hongwei Wang, Chilai Chen, Huanqin Wang, Deyi Kong, Xiaotian Zhang, Mario Chavarria, Juergen Brugger

Polyaniline-coated Surface Acoustic Wave Sensor for Humidity Detection
Xie Xiao, Wang Wen, He Shitang, Mu Ning, Pan Yong

- **Session GS&GSP #2/2**

Session Chair: Li-Feng Ge (lfge@ahu.edu.cn)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: B204, New Main Building, Beihang University

Effect of Facets of α-Fe2O3 Nanostructures on Gas-sensing Performance
Jing Wang, Xiaoman Zhang, Liang Chen, Weihong Xu, Xingjiu Huang, Jinhuai Liu

Application and Development Trend of Gas Sensing Technology Based on Absorption Spectroscopy
Zhenzhen Zhao, Fengchun Tian, Shouqiong Liu

Detection of toxic VOC pollutants with FAIMS
Youjiang Liu, Lehua Zhang, Hongwei Wang, Chilai Chen, Huanqin Wang, Deyi Kong, Xiaotian Zhang, Mario Chavarria, Juergen Brugger

Fabrication of Prototypal Nanomechanical Resonator Based on a single Copper Nanowire
Wei-Hong Xu,Li-Feng Ge

HBC&BSP 2013: The International Workshop on Human Body Communications and Biomedical Signal Processing

- **HBC&BSP #1/4**

Session Chair: Xiang Wang (wxiang@buaa.edu.cn)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: B221, New Main Building, Beihang University

Pulse-Output Monitor Genetic Circuit of Breast Cancer Testing
Xiang Wang, Xun Wang, Guangqian Yuan, Zexi Zhao

Elderly gait analysis and Assessment Based on body area network
Y.D. Xuan, Z. Zhao, Z. Fang, F.M. Sun

Combined motion and region-based 3D tracking in active depth image sequence
Xingyu Wu, Xia Mao, Lijiang Chen

Characteristic Optimization of Multilayer Dielectric for the Bloch-Surface-Wave Based Sensor
Shuna Li, Jiansheng Liu, Zheng Zheng, Yuhang Wan, Weijing Kong, Sun Yu

Facial Expression Recognition Based on t-SNE and AdaBoostM2
Jizheng Yi, Xia Mao, Yuli Xue

A Design of Security Module to Protect Program Execution in Embedded System
Xiang Wang, Zexi Zhao, Ying Lu, Yi Zhang

- **HBC&BSP #2/4**

Session Chair: Zhan Zhao (zhaozhan@mail.ie.ac.cn)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: C201, New Main Building, Beihang University

Improved P-T algorithm applied to a wearable integrated physiological parameters system
Z. H. Xu, Z. Fang, Z. Zhao

Iterative Threshold Selection for TOA estimation of IR-UWB System
Bo Yin, Xiang Wang

A Novel Alternative Exponent-weighted Fuzzy C-Means Algorithm
Renhao Fan, Jordi Madrenas, Xiang Wang

A wireless router with P-H-T sensing for health monitoring
Z. Fang, F. M. Sun, J. Tan, Z. Zhao

A Whole Integrated System for Detection of Neural Signal and Wireless Transmission
Dang Hua, Qu Ruoyuan, Chen Zhiming, Gui Xiaoyan, Wang Xinghua

Research on the Monitoring and Controlling Model of SIP Network
Liang Zhang, Zhaoxin Zhang, Xu Cui, Dan Liu

- **HBC&BSP #3/4**

Session Chair: Hong Zhang

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: B221, New Main Building, Beihang University

Saliency-based Feature Learning for NO-Reference Image Quality Assessment
Zhang Hong, Feng Ren, Yuan Ding

A Compensated Technique for 2.5-GHz Ring-Oscillator-Based PLL used in Wireless Transmission
Dang Hua, Liu Zicheng, Gui Xiaoyan, Zhong Shunan

Speech synthesis research based on EGG
Lijiang Chen, Xia Mao, Pengfei Wei, Angelo Compare

A temperature insensitive ring oscillator for low power RF communications
Pilong Yang, Tongsheng Xia, Hongge Li, Xiang Wang

Low-noise biopotential recording circuit with correlated timeshare sampling
Hongge Li, Weidong Cao, Xinyu Yin

A No-Reference Quality Metric for Blur Image
Zhang Taojia, Zhang Hong, Yuan Ding

- **HBC&BSP #4/4**

Session Chair: Xiang Wang (wxiang@buaa.edu.cn) / Li Ruan (ruanli@buaa.edu.cn)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: C201, New Main Building, Beihang University

Circuit Design of Analog Front-end for Neural Signal Detection
Dang Hua, Zhang Lei, Chen Zhiming, Gui Xiaoyan, Wang Xinghua

A New Pedestrian Detect Method in Crowded Scenes
Hou Xin, Zhang Hong, Yuan Ding

Design and implementation of a circuit system for Neural Signal Detection
Dang Hua, Li Xiao, Chen Zhiming, Gui Xiaoyan, Wang Xinghua, Zhong Shunan

Design and implementation of a CMOS 1Gsps 5bit Flash ADC with offset calibration
Li Shiwen, Dang Hua, Gao Peng, Gui Xiaoyan, Chen Zhiming, Wang Xinghua, Zhong Shunan

Spike detection based on fractal dimension
Zhou Jiyang, Xu Shengwei, Lin Nansen, Wang Mixia, Cai Xinxia

A GPU-Accelerated Large-Scale Music Similarity Retrieval Method
Limin Xiao, Yao Zheng, Wenqi Tang, Guangchao Yao, Li Ruan, Xiang Wang

Power Spectral Analysis of Acupoint Bioelectricity
Quan Zhou, Nansen Lin, Shuping Gai, Jingjing Zhang, Lu Zhang, Wentao Shi, Renhuan Yu, Xinxia Cai

Compressive Sensing of Neural Action Potentials by Designing Overcomplete Dictionaries
Shuai Zhou, Bowei Dai, Yin Xiang, Shengwei Xu, Bingchen Zhang, Yilin Song, Mixia Wang, Xinxia Cai

CloudDVMM: Distributed Virtual Machine Monitor for Cloud Computing
Li Ruan, Jinbin Peng, Limin Xiao, Xiang Wang

Metadata-intensive I/O Performance Optimization by Merging Read/write Requests
Li Ruan, Qimeng Wu, Limin Xiao,Ke Xie, Xiang Wang

IWMMC 2013: The International Workshop on Machine to Machine Communication

Workshop Chair: ZhiKui Chen / Chung-Ming Huang

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: Room 4, Meeting Center, New Main Building, Beihang University

Angle of Arrival Estimation for Passive UHF RFID Tag Backscatter Signal
Meng-Chang Hua, Guo-Chen Peng, Yan-Jun Lai, Hsin-Chin Liu

Mobile IMS Integration of the Internet of Things in Ecosystem
Han-Chuan Hsieh, Jiann-Liang Chen

Design of Gateway for Monitoring System in IoT Networks
Ji-De Huang, Han-Chuan Hsieh

Dependable Architecture of RFID Middleware on Network RFID Systems
Yung-Li Hu, Wei-Bing Su, Yennun Huang, Ing-Yi Chen, Sy-Yen Kuo

The Design and Implementation of the Front-end Software for the Telemetry and Telecontrol System of Satellite
Zhao Qi, Ma Li

Internet of Things for Special Materials Transportation Vehicles
Shengguang Li, Lin Tan, Yuanshuo Zhu, Rucai Zhang

Performance Analysis of COMPASS for the Asia-Pacific Region
Hangyu Huo, Xiaolin Zhang, Canhui Chen

LTLS 2013: The International Workshop on Localization Technology and Location-based Services

Workshop Chair: Xiaoyan Yin (yinxy@nwu.edu.cn) / Bin Guo

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: Room 7, Meeting Center New Main Building, Beihang University

A KNN Indoor Positioning Algorithm that Weighted by the Membership of Fuzzy Set
Jiankun Yu, Jianye Liu

Building Location-based Service Based on Social Network API: An Example of Check-in App
Pin-Fan Lee, Shuchih Ernest Chang

Prioritizing the Data in the Target-Tracking Wireless Sensor Networks
Dan Xu, Xiaojiang Chen, Xiaoyan Yin, Lvju Wang, Hao Chen, Yuan Zhang, Dingyi Fang

DLF Target Detection and Localization in Wireless Network
Tianzhang Xing, Dingyi Fang, Xiaojiang Chen, Liqiong Chang, Yuhui Ren

Bandwidth Reservation for Target Tracking in Region-based Wireless Sensor Networks
Xiaoyan Yin, Dingyi Fang, Xiaojiang Chen, Hao Chen

Fusion estimation based on UKF for indoor RFID tracking
Xuebo Jin

NMCV4SC 2013: The International Workshop on New Media and Computer Vision for Smart City

Workshop Chair: Beili Qiu (Qiubeili@sina.com) /

Ning Wang (wangningmaya@126.com)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: Room 6, Meeting Center, New Main Building, Beihang University

Facile Analysis of Smartphone Comics
Beili Qiu

Research on Production of Regional Animation Style based on Computer Graphic Rendering
Jingjing Chen, Yi Lin, Kexuan Ma, Yue Liu

A Blind Demodulation Algorithm for MFSK Signals using STFT-Radon-Wavelet Transform
Caiyong Lin, Guoyi Zhang, Xuzhou Zhang, Yan Yu

Novel Method to Remove Eye-blink Artifacts Based on Correlation Using ICA
Hengsong Shen, Hongjun Tian

Virtual Assembly, Maintenance and Training System Based on the Virtual–Real Fusion Technology
Ning Wang, Yue Qi

OC&A 2013: The International Workshop on Optical Characteristics and its Applications

Workshop Chair: Yang Zhong-Dong

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: A209, New Main Building, Beihang University

A new infrared sensor model based on imaging system test parameters
Zheng Liu, Hongxia Mao, Yinghong Dai, Jingli Wu

Mixed norm-based image restoration using neural network
Yuannan Xu, Jing Wang, Yanbing Dong, Chenfei Jin, Yuan Zhao

Simulation and Analysis of Turbulent Optical Wavefront Based on Zernike Polynomials
Yan Chen, Yuannan Xu, Shuhua Wang, Yanbing Dong

Study on the interaction of optical field and transverse acoustic mode in silicon Optical fibers
Jing Wang, Yuannan Xu

Testing technology of infrared point source target optical axis
Yue Peng, Hao Lu

Human Segmentation In Infrared Videos using Markov Random Field
Wenjia Yang, Xiaodan Xie, Zhi Chai, Yapeng Li

PhoneCom 2013: The 3rd IEEE International Workshop on Sensing, Networking, and Computing with Smartphones

Workshop Chair: Feng Xia (f.xia@ieee.org) / James She (james.she@ust.hk)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: Room 6, Meeting Center, New Main Building, Beihang University

SmartProbe: a Bottleneck Capacity Estimation Tool for Smartphones
Francesco Disperati, Dario Grassini, Enrico Gregori, Alessandro Improta, Luciano Lenzini, Davide Pellegrino and Nilo Redini

CANDIS: Heterogenous Mobile Cloud Framework and Energy Cost-Aware Scheduling
Sebastian Schildt, Felix Büsching, Enrico Jörns and Lars Wolf

An Experimental Study on Wireless Magnetic Communication With Smart Phone Using a MEMS Magnetometer
Jiabo Wang and Xi Chen

PhoneJoule: An Energy Management System for Android-Based Smartphones
Xiaojing Liu, Fangwei Ding, Jie Li, Haifeng Liu, Zhuo Yang, Juan Chen and Feng Xia

KeyGraph-based Social Network Generation for Mobile Context Sharing
Myeong-Chun Lee, Young-Seol Lee and Sung-Bae Cho

Cyber-Physical Directory: A Dynamic Visualization of Social Media Data
Jean-Loup Lamothe, James She and Ming Cheung

SDPI 2013: The International Workshop on Sensor Data Processing and Integration

Workshop Chair: Zhuofeng Zhao / Jian Yu

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: B201, New Main Building, Beihang University

Capturing, Calculating, and Disseminating Real-Time CO2 Emissions and CO2 Flux Measurements via Twitter in a Smart City
Laurie Butgereit, Alecia Nickless

Freshness-aware Sensor Mashups based on Data Services
Guiling Wang, Feng Zhang

A method of sensing data services query in emergency management
Xin Chen, Yanbo Han, Yongshan Wei, Yan Wen, Shouli Zhang

A Sensory-Data-Hosting Oriented Scheduling Strategy on Virtual Machine
Xiang Li, Weilong Ding, Yong Jiang

SeIoTA 2013: The International Workshop on Software Engineering for Internet of Things-Based Applications

Workshop Chair: Jin Liu and Xiaoyuan Jin

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: B201, New Main Building, Beihang University

Wireless Sensors for Next Generation Healthcare and Medical Telemetry
Kaushik Chowdhury, Northeastern University, USA

Software Engineering and Pervasive Wireless Communications for Internet of Things: Challenges and Perspectives
Geyong Min, University of Bradford, UK

From the Internet of Things to trusted Apps for Things
Christian Prehofer

A Profile for Step Data Transmission based on Bluetooth Low Energy
Youcong Ni, Sun Cong, Zhao Ting, Peng Ye, Chunyan Wang, Luo Zeng

Exception Handling in Service-oriented Software: A Survey
Xue Tong, Ying Shi, Wu Qing

On the Application of the Internet of Things in the Field of Medical and Health Care
Fang Hu, Dan Xie, Shaowu Shen

Hierarchical RBAC model with alpha factor in the Water Supply Pipeline Network
Wu Ting, Yuan Tianliang, Yu Long

Modeling Concern of Online Auction System with SA-CDL
Linlin Zhang, Kai Zhao, Zhenhong Jia, Youcong Ni

The Research on Interactive Exhibition Technology of Digital Museum Resources
Ning Wang, DaYan Shangguan, Bing He

SNDCS 2013: The International Workshop on Sensor Networks and Data Communications Security

- **Session SNDCS #1/2**

Session Chair: Shanyu Tang/ Liping Zhang

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: B225, New Main Building, Beihang University

Integrity Protection and Attestation of Security Critical Executions on Virtualized Platform in Cloud Computing Environment
Bingyu Zou, Huanguo Zhang

A Fuzzing Framwork Based on Symbolic Execution and Combinatorial Testing
Jian Yang, Huanguo Zhang, Jianming Fu

Dynamic Knowledge Repository-based Security Auxiliary System of User behavior
Fan Yang, Jinxia Wu, Shanyu Tang, Huanguo Zhang

Intrusion Detection Method Based on Data Quantity of Computer Bus
Zhao Ma, Shanyu Tang, Liping Zhang, Linchen Yu, Sifa Zhang

Robust and Efficient Authentication Protocol Based on Elliptic Curve Cryptography for Smart Grids
Liping Zhang, Shanyu Tang, Yijing Jiang, Zhao Ma

De Bruijn Graph-based Whole-genomic Sequence Assembly Algorithms and Applications
Xiaojun Kang, Shanyu Tang, Yongge Ma, Ruixiang Liu, Yaping Wang

- **Session SNDCS #2/2**

Session Chair: Liping Zhang / Shanyu Tang

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: B225, New Main Building, Beihang University

Review of Digital Watermarking for 2D-vector Map
Jinxia Wu, Fan Yang, Chonglong Wu

Real-time Covert VoIP Communications over Smart Grids by using AES-based Audio Steganography
Yijing Jiang, Liping Zhang, Shanyu Tang, Zhangbing Zhou

Improving Performance of E-government System from the User Perspective
Hang Zhang, Sifa Zhang, MuZhou Xiong, Shanyu Tang

SSO 2013: The International Workshop on Secure Smart Objects

Workshop Chair: Samia Bouzefrane (samia.bouzefrane@cnam.fr)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: Room 7, Meeting Center, New Main Building, Beihang University

Towards a Modular and Lightweight Model for Android Development Platforms
M. Zneika, H. Loulou, F. Houacine, S. Bouzefrane

Towards Secure Identity Management in Smartphone Environments
Maryline Laurent, Samia Bouzefrane, Christophe Kiennert

Analysis towards the security issue of cloud computing infrastructure
Bo Zhao

Trusted computing: Principles and Security Issues
Pierre Paradinas

TFWS 2013: The 3rd International Workshop on Trend and Future of Web Science

Workshop Chair: Hanmin Jung (jhm@kisti.re.kr) /

Jangwon Gim (jangwon@kisti.re.kr)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: B201, New Main Building, Beihang University

Extracting Protein Terminologies in Literatures
Jangwon Gim, Donald J Kim, Myunggwon Hwang, Sa-Kwang Song, Do-Heon Jeong, Hanmin Jung

Author Name Disambiguation in Technology Trend Analysis Using SVM and Random Forests and Novel Topic Based Features
Sebastian Kastner, Sung-Pil Choi, and Hanmin Jung

Research on Quantum-bit Error Correction Coding for Smart Grid Substation
Xin Miao, Xi Chen

UUMA 2013: The 4rd International Workshop on Universal User Modeling and Applications

- **Session UUMA #1/4**

Session Chair: Bofeng Zhang (bfzhang@shu.edu.cn)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: B206, New Main Building, Beihang University

The MEICSP platform Based on SaaS through a REST Web Service Interface
Zhilei Huang, Lingyu Xu, and Yang Liu

A Text Association Rules Mining Method Based on Concept Algebra
Feiyue Ye, Jiannan Xiong, and Xiangfeng Luo

Research of the SaaS-flow Based on Cloud Platform
Yang Liu, Lingyu Xu, Liang Chen, and Fei Zhong

Application of Hybrid MPI+TBB Parallel Programming Model for Traveling Salesman Problem
Jinke Zhu and Qing Li

Data Deduplication Cluster Based on Similarity-Locality Approach
Xingyu Zhang and Jian Zhang

- **Session UUMA #2/4**

Session Chair: Shanpeng Wu (wsp642188049@126.com)

Time: 8:40-10:40, Tuesday, August 20, 2013

Location: B208, New Main Building, Beihang University

The Application of the Knowledge Representation Based on Concept Algebra in the Knowledge Management System of Petroleum Enterprise
Hongjie Duan and Shanpeng Wu

A New Reliable Hybrid Algorithm for Shortening the Expanding Range of Interval
Cheng Chen and Yongmei Lei

A Novel Data Encryption in HDFS
Thanh Cuong Nguyen, Wenfeng Shen, Jiwei Jiang, and Weimin Xu

The Dynamically Efficient Mechanism of HDFS Data Prefetching
Shaochun Wu, Guobing Zou, Honghao Zhu, Xiang Shuai, Liang Chen, and Bofeng Zhang

Multi-granularity Product Recommendation Based on Ontology User Model
Jianxing Zheng, Bofeng Zhang and Guobing Zou

Friend Recommendation Based on Micro-blog User Model Related Degree
Fan Tang, Bofeng Zhang, Jianxing Zheng, and Yajun Gu

- **Session UUMA #3/4**

Session Chair: Bofeng Zhang (bfzhang@shu.edu.cn)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: B206, New Main Building, Beihang University

The Research of Image Detail Enhancement Algorithm with Laplacian Pyramid
Yanwen Teng, and Fuyan Liu

Information Gain with Weight Based Decision Tree for the Employment Forecasting of Undergraduates
Yue Liu, Lingjie Hu, Fei Yan, and Bofeng Zhang

User Model-based Resource Scheduling Algorithm
Guannan Hu, Wenhao Zhu, and Wu Zhang

Managed parallel computing model resources by graph reduction
Chao Shen

Sentiment Classification for Topical Chinese Microblog Based on Sentences' Relations
Kang Wu, Bofeng Zhang, Jianxing Zheng, and Haidong Yao

- **Session UUMA #4/4**

Session Chair: Qian Quan qqian@shu.edu.cn /

Shanpeng Wu (wsp642188049@126.com)

Time: 11:00-12:40, Tuesday, August 20, 2013

Location: B208, New Main Building, Beihang University

An Anomaly Intrusion Detection Method Based on PageRank Algorithm
Qian Quan

Distributed File System and Classification for Small Images
Shaojian Zhuo, Xing Wu, Wu Zhang, and Wanchun Dou

The Possibility of Normal Gait Analysis Based on a Smart Phone for Healthcare
Susu Jiang, Bofeng Zhang, Guobing Zou, and Wei Daming

IoT/CPS Demo and Exhibition

Demo Chairs:

Pin Tao, Tsinghua University, China

Kongqiao Wang, Nokia Research Center, China

Time: 11:05-12:00 / 18:00-19:00, Wednesday, August 21, 2013

Location: Grand Ballroom 1 & 2 & 3 / Golden 2, Park Plaza Beijing Science Park

Mo-Fi: Discovering Human Presence Activity with Smartphones Using Non-intrusive Wi-Fi Monitors
Weijun Qin

Towards a Pervasive Cloud Computing based Food Image Recognition
Weishan Zhang

Wireless IoT Platform Based on SDR Technology
Qing Wang

Join the Workshop Better with Telepresence Capturer
Pin Tao

InSciTe Adaptive: R&D Decision Support System for Strategic Foresight
Jangwon Gim

CYBERMATICS CREATIVE VIDEO CONTEST

Video Chairs:

Ning Wang, Beihang University, China

Jun Fei, Chinese Academy of Fine Arts, China

Time: 11:05-12:00, Wednesday, August 21, 2013

Location: Grand Ballroom 1 & 2 & 3, Park Plaza Beijing Science Park

Smart Wristwatch
Wenhong Yao

Vision System
Zuowei Wang

I, Human
Haiming Hu

OPENCHINA-ICT THEMATIC WORKSHOP ON INTERNET OF THINGS AND THE FUTURE INTERNET

The 2nd OpenChina-ICT Thematic Workshop on

Internet of Things and Future Internet

中欧信息通讯合作–物联网和未来互联网主题研讨会

Friday, August 23, 2013
Park Plaza Beijing Science Park , Beijing, P.R. China
时间：2013 年 8 月 23 日
地点：北京丽亭华苑酒店，中国北京

Time 时间	**Program 议程**	**Venue 地点**
Opening Session 开幕 **主持人(Moderator): Camille TORRENTI** **Sigma Orionis 技术咨询公司项目负责人**		
08:00-09:00	**Registration 会议注册报到**	Grand Ballroom, the 2nd floor of Park Plaza Beijing Science Park (北京丽亭华苑酒店二层鸿运厅)
09:00-10:00	Introduction of VIPs and speakers by Moderator--Camille TORRENTI 与会重要嘉宾及讲者介绍	
	Opening Speeches 致开幕辞	
	Delegation of the European Union to China 欧盟驻华代表团代表	
	European Union Chamber of Commerce in China 中国欧盟商会代表	
	Welcome Speeches 致欢迎词	
	Ministry of Science and Technology of P.R. China 中华人民共和国科学技术部代表 Ministry of Industry and Information Technology of P.R. China 中华人民共和国工业和信息化部代表	
	Keynote Speech 主旨演讲	
	Kay MATZNER, OpenChina-ICT Project Coordinator, Fraunhofer IFF 演讲嘉宾：Kay MATZNER，德国弗劳恩霍夫工厂运行和自动化研究所，OpenChina-ICT 项目协调人	

EU-China Developments in the Area of Resilience and Privacy

中欧网络基础应变弹性和隐私保护的发展概况

Moderator and presenter: Danilo HOLLOSI, Project Group Hearing, Privacy in IoTand Future Internet Applications

主持人：Danilo HOLLOSI

项目小组听议员，物联网和未来互联网应用相关隐私保护专家

10:00-10:45	François CARREZ, University of Surrey 演讲嘉宾：François CARREZ，英国萨里大学	Grand Ballroom, the 2nd floor of Park Plaza Beijing Science Park (北京丽亭华苑酒店二层鸿运厅)
	LI Zhoujun，Professor, Beihang University (TBC) 演讲嘉宾：李舟军教授，北京航空航天大学（待定）	
	DONG Qinling, Professor, School of International Relation, University of International Business and Economics 演讲嘉宾：董青岭，对外经济贸易大学国际关系学院国际政治系	
10:45-11:00	**Coffee Break　茶歇**	

EU-China Developments in the Area of Future Internet

中欧未来互联网发展概况

Moderator: Latif LADID, Founder and President of the IPv6 Forum, Chairman of the European IPv6 Task Force

主持人：Latif LADID，IPv6 论坛主席兼创始人，欧洲 IPv6 研究组主席

11:00-12:00	**Keynote Speeches　主旨演讲**	Grand Ballroom, the 2nd floor of Park Plaza Beijing Science Park (北京丽亭华苑酒店二层鸿运厅)
	Martin POTTS, FP7 ECIAO Project Coordinator, Coordinator of the FIRE research roadmap for H2020 演讲嘉宾：Martin POTTS，欧盟第七框架计划 ECIAO 项目协调人，地平线 2020 计划 FIRE 研究路线图协调人	
	Philippe COUSIN, FP7 ECIAO European Project Manager 演讲嘉宾：Philippe COUSIN，欧盟第七框架计划 ECIAO 项目欧方负责人	
	ZENG Yan, Vice Director, Network and Information Division of S&T Development Center, Ministry of Education and General Secretary, Internet Innovation Union 演讲嘉宾：曾艳，教育部科技发展中心网络信息处副处长，互联网应用创新开放平台联盟秘书长	
	BI Jun, Professor, Network Information Center, Tsinghua University (TBC) 演讲嘉宾：毕军教授，清华大学网络中心（待	

	定）	
12:00-12:30	**Panel Discussion (Panelists) 小组讨论及其成员** » Martin POTTS, FP7 ECIAO Project Coordinator, Coordinator of the FIRE research roadmap for H2020 Martin POTTS，欧盟第七框架计划ECIAO项目协调人，地平线2020计划FIRE研究路线图协调人 » XU Guibao, Chinese Project Manager, FP7 ECIAO project, CATR, MIIT 徐贵宝，欧盟第七框架计划ECIAO项目中方负责人，工信部电信研究院 » TANG Hao, Senior Engineer, Internet Center, CATR, MIIT 唐浩，工信部电信研究院互联网中心高级工程师 » Frank HUANG, Coordinator & Promoter, Dragonlab Programme, Ruijie Networks 黄煜，锐捷网络Dragonlab项目协调人兼推广负责人	Grand Ballroom, the 2nd floor of Park Plaza Beijing Science Park (北京丽亭华苑酒店二层鸿运厅)
12:30-13:30	**Lunch Break 午餐**	
EU-China Developments in the Area of Internet of Things **中欧物联网发展概况** **Moderator: Philippe COUSIN, Expert of the EU-China IoT Advisory Group, EU-China ECIAO Project, FP7 FI-STAR Project** **主持人：Philippe COUSIN，中欧物联网顾问组专家，中欧 ECIAO 项目专家，欧盟第七框架计划 FI-STAR 项目专家**		
13:30-15:00	**Keynote Speech 主旨演讲** Alex GLUHAK, Project Coordinator, FP7 SocioTal project University of Surrey 演讲嘉宾：Alex GLUHAK，欧盟第七框架计划 SocioTal 项目协调人，英国萨里大学 Pedro MALO, Project Coordinator, FP7 EAR-IT project, Uninova (Institute for the Development of New Technologies) 演讲嘉宾：Pedro MALO，欧盟第七框架计划 EAR-IT 项目协调人，葡萄牙 Uninova 研究所 LI Haihua Senior Engineer, IoT Center, CATR, MIIT 演讲嘉宾：李海花，工信部电信研究院物联网中心高级工程师 LI Yanbin, Senior Engineer, Huawei Technologies Co., Ltd. 演讲嘉宾：李艳斌，华为高级工程师	Grand Ballroom, the 2nd floor of Park Plaza Beijing Science Park (北京丽亭华苑酒店二层鸿运厅)

	Panel Discussion (Panelists) 小组讨论及其成员	
	» Alex GLUHAK, Project Coordinator, FP7 SocioTal project, University of Surrey Alex GLUHAK，欧盟第七框架计划SocioTal项目协调人，英国萨里大学 » Pedro MALO, Project Coordinator, FP7 EAR-IT project, Uninova (Institute for the Development of New Technologies) Pedro MALO，欧盟第七框架计划EAR-IT项目协调人，葡萄牙Uninova研究所 » François CARREZ, IoT-i Project Coordinator, IoT Forum François CARREZ，物联网论坛IoT-i项目协调人 » ZHANG Xueli, EU-China IoT Advisory Group, CATR, MIIT 张雪丽，中欧物联网顾问组，工信部电信研究院 » ZHOU Kaiyu, Senior Engineer, China Telecom 周开宇，中国电信高级工程师	
15:00-15:15	**Coffee Break 茶歇**	
Parallel working groups on sub-topics 子话题工作组 The conference room will be divided into three areas for each working group. Participants will be invited to join one of the three groups (based on their expertise/interest) to discuss the potential for collaboration on those sub-topics.会场将分成三个工作组讨论区，参会代表根据专业领域或个人兴趣选择某一工作组，就相关子话题进行合作意向探讨。		
15:15-16:45	Group 1: Internet of Things Architecture Moderators: Philippe COUSIN & ZHANG Xueli 第一组：物联网的结构 主持人：Philippe COUSIN 和张雪丽	Grand Ballroom, the 2nd floor of Park Plaza Beijing Science Park (北京丽亭华苑酒店二层鸿运厅)
	Group 2: Future Internet Test-Beds & IPv6 Moderators: Latif LADID & XU Guibao 第二组：未来互联网测试床与 IPv6 主持人：Latif LADID 和徐贵宝	
	Group 3: Resilience and Privacy Moderator: Danilo HOLLOSI 第三组：网络基础应变弹性与隐私保护 主持人：Danilo HOLLOSI	
Wrap-up & Roadmap: Which concrete cooperation could be developed in the short to medium term? 会议总结&未来路线图：短中期内将达成何具体合作？		
16:45-17:15	**Working Groups Conclusions 工作组结论汇报**	Grand Ballroom, the 2nd floor of Park Plaza Beijing Science Park (北京丽亭华苑酒
	Philippe COUSIN / Latif LADID / Danilo HOLLOSI	
	Roadmap & Opportunities 合作路线图&机遇	
	Kay MATZNER, OpenChina-ICT Project Coordinator, Fraunhofer IFF	

	德国弗劳恩霍夫工厂运行和自动化研究所，OpenChina-ICT 项目协调人	店二层鸿运厅)
	Concluding Words 总结发言	
	Delegation of the European Union to China 欧盟驻华代表团代表	
17:15	**End of Workshop 闭幕**	

CHINA-EU IOT INTEROPERABILITY WORKSHOP

Time: 13:30-17:00, Tuesday, August 22, 2013

Location: Grand Ballroom 3, Park Plaza Beijing Science Park

Agenda:

13:30-14:00	Welcome Keynote Speech	China Academy of Telecommunication Research (CATR)
14:00-14:20	Overall IoT Interoperability Issues Best Practices	Philippe Cousin, IERC, Probe-IT , Smart Action
14:20-14:40	Technical Interoperability 6lowpan-CoAP Report from Interop Event	Xiaohing Huang, Beijing University of Posts and Telecommunications (BUPT), China
14:40-15:00	Plug'n'Play Interoperability for Large-Scale Heterogeneous IoT.	Pedro Malo, Simple, X, Y Projects
15:00-15:20	The Research Progress of 6LoWPAN Protocol Test in China	Junfeng, Ma, CATR
15:20-16:00	Semantic Interoperability	Alex Gluhak, IoTest, iCore, Sociotal Projects
16:00-16:20	The Process in Research and Practice on Web of Things Related Area in China	Yang Ji, BUPT, China
16:20-17:00	EU-China Cooperation Platform	Camille Torrenti, OpenChina ICT

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GENERAL INFORMATION

Registration Desk

The Registration Desk will be open to assist you at the following times:

- **Monday, August 19, 2013**

  Location: Lobby, Park Plaza Beijing Science Park Hotel

- **Tuesday, August 20, 2013, 7:30-14:00**

  Location: Lobby, Conference Center, New Main Building, Beihang University

  Lobby, Park Plaza Beijing Science Park Hotel

- **Wednesday, August 21, 2013, 7:30-14:00**

  Location: Lobby, Park Plaza Beijing Science Park Hotel

- **Thursday, August 22, 2013, 7:30-10:00**

  Location: Lobby, Park Plaza Beijing Science Park Hotel

Conference materials, name badges, receipt bills will be distributed at the Registration Desk.

Name Badges and Tickets

All delegates, sponsors and speakers of IEEE GreenCom/iThings/CPSCom 2013 and associated symposia/workshops and receipts will be provided with a name badge, to be collected upon registration. This badge must be worn at all times as it is your official pass to all sessions of the conferences, workshops, reception, lunches, dinners, morning and afternoon coffee breaks.

Message Board

Any program changes or urgent announcements from the secretariat and private messages will be posted on the message board in the registration area. Please check the message board occasionally.

Presentation Information

Language

The presentation language of IEEE GreenCom/iThings/CPSCom 2013 and associated symposia, and workshops is English.

Checking In

Session Chairs are requested to register at least **30 minutes** before their sessions, or as soon as the Registration Desk is open.

Setting Up

You are required to arrive at the room (in which you will deliver your talk) **at least 15 minutes before the commencement of the session**. Upon arrival please confirm your attendance with the Session Chair and familiarize yourself with the venue.

Please bring with you a single paragraph summary, including your name (as you would like to be introduced), affiliation and research interests (maximum 100 words). Please present this to the Session Chair upon arrival, for use for introductory purposes, prior to your talk.

Upon arrival, please copy your slides file to the presentation computer. If you plan to use your own equipment, please ensure it is ready to go prior to the session commencing, since there is very little time between presentations. If you have requested optional equipment, ensure that is in the room. In the larger conference rooms please, make sure you familiarize yourself with the audio system. For all assistance, please speak to the Session Chair.

Timing

Please ensure your check the program for the exact time of your session and where your paper falls within the session.

It is recommended that all IEEE GreenCom/iThings/CPSCom 2013 paper presentations time is about **25 minutes** for main conference papers, or **20 minutes** for symposia/workshop papers, including 5 minutes question time. However, the Session Chairs will determine the exact presentation time for each paper, based on the number of presentations in each session. The Session Chairs will ensure that you do not over-run the time allocated.

Please keep strictly to this time guideline.

Mobile Conference Application

A mobile conference application is available for all conference attendees to download and use during the conference for Android and iOS devices, courtesy of Yolu. You can use this application to view the program schedule, sessions, papers in each session, add attendees to your social networks and contacts, and post to your social networks. Details for downloading this application are available at the Registration Desk.

Drag and Save Presentations to Your Device

The conference is pleased to have the HKUST-NIE Social Media Lab and CyPhy deliver CyPhy technology which allows you to use your Android or iOS device to use a flicker motion to pick up the presentation slide from the screen and save it to your device for later viewing. All you need is to install the CyPhy mobile application. All keynotes and selected paper sessions will have this technology available. For more details, please see

the Registration Desk.

Contact Information

If you need any assistance during the conference, please go to the Registration Desk directly or ask any of the conference student volunteers (who will be wearing shirts clearly marked as volunteer), or contact us via email: **wcc.service2013@gmail.com**. In case of emergency, we can be reached by phone at 86-10-82339704 (Wei Du).

CONFERENCE VENUE

Park Plaza Beijing Science Park Hotel

- **Wednesday, August 21 – Friday, August 23, 2013**

  Venue: Park Plaza Beijing Science Park Hotel, Beijing, China

Address: Zhichun Road No.25, Haidian District, Beijing 100191, China

Tel: + 86-10-8235 6699

Fax: + 86-10-8235 6688

http://www.parkplaza.com/beijing-hotel-cn-100083/chnbjch/

Beihang University

- **On Tuesday, August 20, 2013**

  Venue: Main Building / Music Hall, Beihang University, Beijing, China

  Address: Xueyuan Road No.37, Haidian District, Beijing 100191, China.

  Tel: +86-10-8233 9470; Fax: +86-10-8233 9470

TRAVEL GUIDE

You may arrive at conference venue (Park Plaza Beijing Science Park Hotel) from Beijing Capital International Airport, and Railway Stations.

- **From Beijing Capital International Airport to the Park Plaza Beijing Science Park Hotel.**

1) By Taxi

If you don't speak Chinese, please show the following sentence to the taxi driver.

司机同志，请送我到丽亭华苑酒店！（海淀区知春路**25**号）

It means that "Please take me to Park Plaza Beijing Science Park Hotel (Zhichun Road No.25, Haidian District, Beijing 100191, China)."

It's about 31.8 km from Beijing Capital International Airport Terminal 1 or Terminal 2 to Park Plaza Beijing Science Park, and It's about 33.5 km from Beijing Capital International Airport Terminal 3 to Park Plaza Beijing Science Park.

2) By Subway

From Terminal 1 or Terminal 2:

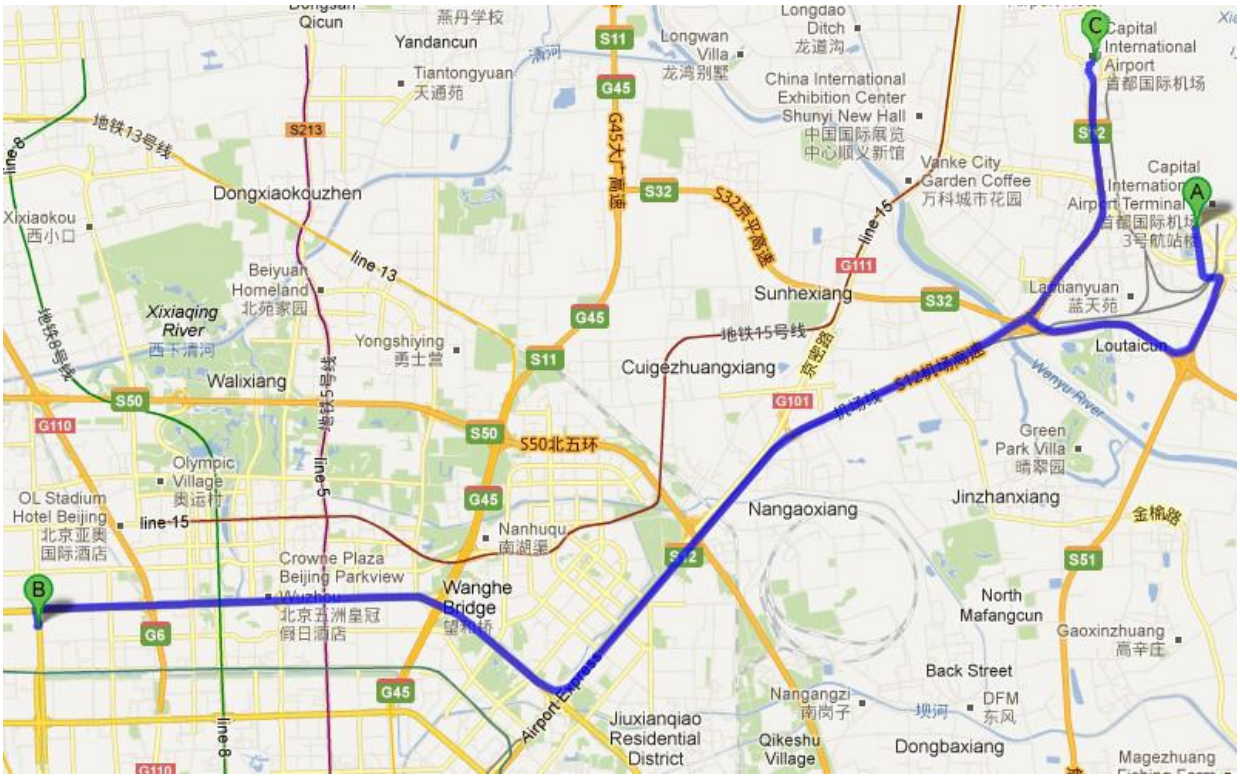
If you get off at Beijing Capital International Airport Terminal 1 or Terminal 2 Parking Lot, please take Subway Airport Express from Subway Terminal 2 Station to Sanyuanqiao Station. Then transfer to Subway Line 10 at Sanyuanqiao Station, if you want to get to Beihang University, please get off at Xitucheng Station and get out using Entrance A. If you want to get to Park Plaza Beijing Science Park, please get off at Zhichunlu Station and get out using Entrance F.

From Terminal 3:

If you get off at Beijing Capital International Airport Terminal 3, please take Subway Airport Express from Subway Terminal 3 Station to Sanyuanqiao Station. Then transfer to Subway Line 10 at Sanyuanqiao Station, if you want to get to Beihang University, please get off at Xitucheng Station and get out using Entrance A. If you want to get to Park Plaza Beijing Science Park, please get off at Zhichunlu Station and get out using Entrance F.

3) By Airport Shuttle Bus (it is not a good selection since the geting off station is 2 Km from the hotel)

In the map below, Place A is Capital International Airport Terminal 3, C is Terminal 1 and 2, and B is Park Plaza Beijing Science Park or Beihang University.



Coming by Airport Shuttle Route **(Line 5, i.e., BCIAZhongguancun/中关村)**:

Terminal 3 -> Terminal 2 -> Terminal 1 -> Xiaoying -> Asian Games Village (Anhui Bridge) -> Xueyuan Bridge (**Get off at Xueyuan Bridge, and the North Gate of Beihang University is on the other/south side of the road**).

- **From Beijing Railway Station to the conference venue**

1) **Taking Taxi**

It's about 17.6 km from Beijing Railway Station to Park Plaza Beijing Science Park.

2) **Taking subway**

If you get off at Beijing Railway Station, please take **Subway Line 2** from Subway Beijing Railway Station to Xizhimen Station, then transfer to **Subway Line 13**, if you want to get to Park Plaza Beijing Science Park, please get off at Zhichunlu Station and get out using Entrance F. If you want to get to Beihang University, please get off at Zhichunlu Station and continue to take **Subway Line 10** from Zhichunlu Station to Xitucheng Station. Get off at Xitucheng Station and get out using Entrance A (or continue to walk on foot after your arriving at Park Plaza Beijing Science Park).

- **From Beijing West Railway Station to the conference venue.**

1) Taking Taxi

It's about 13.5 km from Beijing West Railway Station to Park Plaza Beijing Science Park.

2) Taking subway

If you get off at Beijing West Railway Station, please take **Subway Line 9** from Subway Beijing West Railway Station to National Library Station, then take **Subway Line 4** from National Library Station to Haidianhuangzhuang Station, then transfer to **Subway Line 10**, if you want to get to Beihang University, please get off at Xitucheng Station and get out using Entrance A. If you want to get to Park Plaza Beijing Science Park, please get off at Zhichunlu Station and get out using Entrance F.

• From Beijing South Railway Station to the conference venue.

1) Taking Taxi

It's about 19.1 km from Beijing South Railway Station to Park Plaza Beijing Science Park.

2) Taking subway

If you get off at Beijing South Railway Station, please take **Subway Line 4** from Subway Beijing South Station to Xizhimen Station, then transfer to **Subway Line 13**, if you want to get to Park Plaza Beijing Science Park, please get off at Zhichunlu Station and get out using Entrance F. If you want to get to Beihang University, please get off at Zhichunlu Station and continue to take **Subway Line 10** from Zhichunlu Station to Xitucheng Station. Get off at Xitucheng Station and get out using Entrance A (or continue to walk on foot after your arriving at Park Plaza Beijing Science Park).

• From Beijing North Railway Station to the conference venue.

1) Taking subway

If you get off at Beijing North Railway Station, please take **Subway Line 13** from Xizhimen Station, if you want to get to Park Plaza Beijing Science Park, please get off at Zhichunlu Station and get out using Entrance F. If you want to get to Beihang University, please get off at Zhichunlu Station and continue to take **Subway Line 10** from Zhichunlu Station to Xitucheng Station. Get off at Xitucheng Station and get out using Entrance A (or continue to walk on foot after your arriving at Park Plaza Beijing Science Park).

BRIEF INTRODUCTION TO BEIHANG UNIVERSITY

Beihang University (formerly Beijing Institute of Aeronautics, Beijing University of Aeronautics and Astronautics) or BUAA for short, was founded in 1952, following the merger of the aeronautical departments from eight top Chinese universities including Tsinghua University, Peiyang University (now Tianjin University), Xiamen University,and Sichuan University. With this, it became the first university of aeronautical and astronautical engineering in China.

Not long after it was founded, Beihang University was recognised as one of China's 16 key universities and it has since received priority support from the Chinese government. Today, Beihang University is one of China's leading research universities with preeminent science and engineering programs and is among a few top Chinese universities supported by the National Education Excellence Initiative ("211" and "985" Projects), aimed at developing world-class universities in China.

Beihang University is situated in Beijing within the Zhongguancun Science Park. The main, 120 hectare campus is adjacent to China's National Olympic Centre, while a new campus of a similar size is located approximately 25 km to the north, in the city's suburbs.

Since its foundation, Beihang has gained nationwide acclaim for its teaching, research, and scholarly achievement. The university currently has more than 2,200 full-time faculty members, including over 500 professors. The faculty includes 17 members of the Chinese Academy of Sciences and the Chinese Academy Engineering.

The university offers 57 undergraduate programs, 144 Master's programs, and 63 doctoral programs across its 27 schools, which include engineering, sciences, medicine, economics, management, law, humanities and social sciences, education, and art. At present, Beihang University has 26,385 students, of whom 13,939 are undergraduates and 12,446 postgraduates. Over the past 60 years, the university has produced more than 120,000 graduates. A number of outstanding alumni have become members of the Chinese Academy of Sciences or the Chinese Academy of Engineering. Nearly a third of the top designers and directors in the Chinese Manned Space Program and Lunar Exploration Program studied at Beihang University.

As a leading university in science and technology innovation, Beihang has received more than 1,130 awards at the national or ministerial level for achievements in basic research, technological innovation, and engineering developments. During recent years, research funding at Beihang has been increasing at an annual rate of over 20 percent, with the research expenditures totalling 1.93 billion yuan (US$304.3 million) in 2011. The total amount of external research funding received is among the highest of all universities in China. Beihang also has strong links with industry, with more than 50 percent of its research projects originating from the industrial sector.

Beihang University has long made international networking a priority for its development. To maintain and extend its collaborative networks, the university has developed a strong strategy of internationalization called Vision Plan UPS (U, university to university; P, professor to professor; S, student to student). The university has developed partnerships and cooperative agreements with over 185 universities, research institutions, and companies in 32 countries. These multilevel partnerships cover faculty and student exchanges, joint workshops and conferences, joint educational programs, joint research endeavors, and collaborative publication. Beihang has established a number of ambitious international educational projects, such as the Beihang Sino-French Engineer School (also known as École Centrale de Pékin), a successful, internationally recognized joint project established in 2005 by Beihang and Le Groupe des Écoles Centrales.

For more information, please access http://www.buaa.edu.cn