The Third International Conference on Networking and Distributed Computing (ICNDC 2012)

Conference Program

Hangzhou, Zhejiang, China

October 21-24, 2012

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Welcome from ICNDC 2012 General and Program Co-Chairs

Welcome to Hangzhou and to the Third International Conference on Networking and Distributed Computing (ICNDC2012), held at   Hangzhou, China, October 21-24, 2012.

The Networking and Distributed Technologies are the most vital parts of IT technologies in the current days and the future. When the next generation of Internet comes true and mobile systems go to 3G or even 4G in the future, there are trends to transform legacy software into Internet applications. To bring together industrial and academic researchers to discuss hot topics and Trends on Networking and Distributed Computing, with encouraged by successfully organizing the Second International Conference on Networking and Distributed Computing (ICNDC2011) in on September, 21-24, 2010 in Beijing, P.R.China,   we organize the Third International Conference on Networking and Distributed Computing (ICNDC2012) on October, 21-24, 2012 in Hangzhou, P.R.China. ICNDC2012   focuses   on (1) distributed computing and distributed systems track including Clusters and Grids,   SOA, SAAS,IAAS, Service Composition and Orchestration, Peer-to-Peer Systems, Cloud Computing, etc. (2) Networking track including   IP networks, Next generation Internet, wireless network, wireless mesh networks,4G mobile communications and beyond, etc. (3) Distributed Applications track including application systems such as e-business, e-Science as well as application systems in   the fields of Management Science and Economics and Education Science, etc.

This year, we also have three workshops that complemented ICNDC2012 program. The workshops are: The 4th International Workshop on Semantic P2P Networks (SP2PN2012) (organized by Lican Huang),   The First International Workshop on Content Centric Networking (organized by Zhen Chen and Jun Bi),   The First International Workshop on Security of Mobile Computing and Cloud Computing (organized by Yang LI) .   The Conference Co-chairs and Program Co-chairs of ICNDC2012 would like to thank the organizers of the workshop and sessions for their excellent work and effort in organizing these activities.

ICNDC2012 received 200 submissions (including main track papers, workshop papers) from over 15 countries and regions. All submitted papers have to go through a rigorous reviewing process. After rejecting parts of papers in the first round quick screen, each of the remainder submissions was reviewed by at least three independent reviewers in a standard peer-review process. Papers belonged to two categories: regular papers of 5 pages and short papers of 4 pages. After rigorous peer-review, we finally select 49 papers (acceptance rate 24.5%) for publication.

ICNDC2012 is co-sponsored by Zhejiang Sci-Tech University, China ; Chinese Academy of Sciencs, China; Research Institute of Information Technology, Tsinghua University, China ;

Hangzhou Domain Zones Technology Co., Ltd.   ICNDC2012 is also technically co-Sponsored by Parallel Computing Centre, Imperial College London, UK; Distributed & Scientific Computing, Cardiff University, UK ;   State Key Laboratory of Networking and Switching, Beijing University of Posts and Communications, China;IEEE Computer Society;IEEE Computer Society Technical Committee on Scalable Computing (TCSC). Their sponsorships support the success of conference.

ICNDC2012 would not have been successful without the support of many people and organizations. First and foremost, we would like to thank all the authors for submitting their papers to the conference, for their presentations and discussions during the conference. We would like to express our most sincere gratitude to Program Committee members and our professional reviewers, who carried out the most difficult work by carefully evaluating the submitted papers. We would like to give special thanks to the conference sponsors.   Last but not least, we would like to thank all conference participants for their contribution and support. We hope that all participants can take this opportunity to share and exchange ideas with one another and enjoy ICNDC2012.

Lican Huang, Zhejiang Sci-Tech University, China
Jianhui Li,   Chinese Academy of Sciences, China
Junwei Cao,Tsinghua University., China
Yike Guo, Imperial College London, UK
Yuanan Liu, Beijing University of Posts and Communications, China
David W. Walker, Cardiff University, UK
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Maozhen Li,   Brunel University, UK
Kin Keung Lai, City Univ. of Hong Kong
Hui Xiong,   Rutgers, The State University of New Jersey, USA
Program Co-Chairs of ICNDC2012

Conference Schedule Overview

Oct 20, 2012	Oct. 21, 2012	Oct. 22, 2012	Oct. 23, 2010	Oct. 24, 2010
	8:00-17:30 Registration	8:30-11:30 Registration	8:30-11:30 Registration	8:30-11:30 Registration
	8:30-9:00 Opening Session		Tutorial	Tutorial
	9:00-9:50 Keynote Speech 1			
	9:50-10:10 Coffee/Tea Break			
	10:10-11:00 Keynote Speech 2			
14:00-18:00 Registration	11:00-11:50 Keynote Speech 3	Tutorial		
	12:00-13:30 Lunch/Rest			
	13:30-15:30 Parallel Session A1, B1, C1			
	15:30-15:45 Coffee/Tea Break			
	15:45-17:30 Parallel Session A2, B2, C2			
18:00-20:30 Dinner	18:00-21:00 Banquet			

Notes:

1. Conference Venue Arrangement

Opening/Keynote Session:　　Conference hall, Days Hotel & Suites Hangzhou

Parallel Session A:　　Conference room A,　Days Hotel & Suites Hangzhou

Parallel Session B:　　Conference room B,　Days Hotel & Suites Hangzhou

Parallel Session C:　　Conference room C,　Days Hotel & Suites Hangzhou

2. Conference Lunch/Supper and Banquet Arrangement

Lunch/Dinner:　　Days Hotel & Suites Hangzhou

Banquet:　　Days Hotel & Suites Hangzhou

3. All participants enter into the restaurant by Lunch/Dinner tickets and Banquet tickets issued by the Conference Organizer.

Technical Program

October 20, 2012 (Saturday)

14:00-18:00	Registration
18:00-20:30	Dinner

October 21, 2012 (Sunday)

8:30-9:00	**Opening Session (30m/P)**
	Opening Address (Prof. Lican Huang　General Co-Chairs)
9:00-9:50	**Keynote Speech (50m/P) (Chair:　Prof. . Lican Huang)**
	Speaker:　Prof. Junwei Cao **Distributed Computing with elop**
9:50-10:10	**Coffee/Tea Break**
10:10-11:50	**Keynote Speech (50m/P)(Chair: Prof　Junwei　Cao)**
10:10-11:00	**Speaker: Prof. Jianhui Li** **CAS Data Cloud：Integrated Service of Data, Middleware and Infrastructure**
11:00-11:50	**Speaker: Prof. Yike Guo** **Big Data vs Smart Model：Building a Foundation of Sensor Informatics　in the Big Data Era**
12:00-13:30	**Lunch/Rest**
13:30-15:30	**A1:　Content Centric Networking and　Parallel Computing** **(15m/P)(Chair:　Dr.**　Zhen Chen**)**
Parallel Session A1	**Title:　　Live Streaming with Content Centric Networking** **Authors:　Hongfeng Xu, Zhen Chen, Rui Chen and Junwei Cao**
	Title:　　Parallelizing FIB Lookup in Content Centric Networking **Authors:　Shuai Ding, Zhen Chen and Zhi Liu**
	Title: A Data Structure for Content Cache Management in Content-Centric Networking **Authors:　Haopei Wang, Zhen Chen, Feng Xie and Fuye Han**
	Title:　　Reality Check of CCN Routing Using Search Processor **Authors:　Yong Liang, Zhen Chen, Jun Li and Shuai Ding**

	Title: **Reformat Named Data Networking with Cryptographic Message Syntax** **Authors:** **Erlong Min, Zhen Chen and Rui Chen**
	Title: **A Method of Accelerating LDA Program with GPU** **Authors:** **Jiang Yanjun, Wen Hualong and Gao Zhanchun**
	Title: **Application Of Parallel Computing On Large Scale Atmospheric Nucleation** **Authors:** **Yanrui Liu, Kai Zhu, Aseda Aboagye and Jinzhu Gao**
	Title: **An Easy Matrix Computation Based Simulator of NDN** **Authors:** **Xiaoke Jiang, Jun Bi, You Wang, Pingping Lin and Zhaogeng Li**
	Title: **An Implementation of High Performance Parallel KNN Algorithm Based on GPU** **Authors:** **Lican Huang, Zhen Liu, Zhiwen Yan, Piaoyue Liu, Qingpeng Cai**
15:30-15:45	**Coffee/Tea Break**
15:45-17:30	**A2:** **Control Systems and Image Processing** **(15m/P) (Chair: Dr.** Zhen Chen **)**
Parallel SessionA2	**Title:** **The Research of High Frequency Soft Switching Power Supply Control Circuit** **Authors:** **Zhang Yinhai and Zhao Yunmeng**
	Title: **An Asynchronous Motor Vector Control System Considering The Variation Of Rotor Resistance** **Authors:** **Zhang Yinhai and Chen Zhikui**
	Title: **Research of System for Design of Geothermal Exchanger in Ground Source Heat Pump** **Authors:** **Jifeng Xu and Suntao Qin**
	Title: **Development of Communication Interface for Vortex Flowmeter Platform Based on Embedded μC / OS-III** **Authors:** **Huang Jing and Chen Hao**
	Title: **A Virtual View Synthesis Algorithm Based on Image Inpainting** **Authors:** **Wu Huayang, Feng Jie, Zhang Huaxiong and Lv Qiankun**
	Title: **Superpixel based Depth Propagation for Semi-Automatic 2D-to-3D Video Conversion** **Authors:** **Jie Feng, Hanjie Ma, Jie Hu, Li Cao and Huaxiong Zhang**
	Title: **An Effective Background Reconstruction Method for Video Objects Detection** **Authors: Li Cao and Yi Jiang**

	Title: Pedestrian Detection based on ISC in Infrared images **Authors:** Lianna Chen, Wenshu Li, Chao Zhao and Genling Wang
	Title: A Scale Adaptive Kalman Filter Method Based On Quaternion Correlation In Object Tracking **Authors:** Hu Jie, Zhang Huaxiong, Feng Jie, Huang Hai and Ma Hanjie
18:00-21:00	**Banquet**

13:30-15:30	**B1:** Cloud Computing and Internet of Things (15m/P) (Chair: Prof. Junwei Cao)
Parallel Session B1	**Title:** Research and Evaluation of Network Virtualization in Cloud Computing Environment **Authors:** Zongjian He and Guanqing Liang.
	Title: Research on Education Reform of Negative Feedback Teaching Process Based on Cloudy Computing **Authors:** Yang Li and Bin Hu
	Title: Enabling Distributed Computing Systems with elopTM **Authors:** Junwei Cao
	Title: The Algorithm for Constructing Extremal Graphs Based on MapReduce **Authors:** Yongqi Sun, Nan Zhao and Rui Zhang
	Title: Research on Hadoop Cloud Computing Model and its Applications **Authors:** Lu Huang, Haishan Chen and Tingting Hu
	Title: The Reform of Three-Dimensional to the Practice of Telecommunication System for the Applications of Internet of Things **Authors:** Jijun Tong, Jing Huang and Huaxiong Zhang
	Title: A Strategy for Mesh Client Mobility Support in Wireless Mesh Networks **Authors:** Lican Huang, Zhiwen Yan, Zhen Liu,Hao Huang
15:45-17:30	**Coffee/Tea Break**
15:45-17:30	**B2:** Distributed Systems, Security and Dataming (15m/P) (Chair: Jianhui Li)
Parallel Session B2	**Title:** The research on fuzzy Bayesian network model for the network public opinion situation and threat assessment **Authors:** Jiaoli Fang, Jianming Huang and Ming Liu
	Title: Study on The Foundation Theoretical Framework of COT-Oriented Cooperative Operation of System Resources **Authors:** Lan Yushi, Guo Chenghao and Li Zhe
	Title: Research on the Restraint Mechanism for the Low-carbon Operation of Industrial Cluster

	Authors: **Suntao Qin and Jifeng Xu**
	Title: **The Implementation of TT & C Software Sharing Prototype System** **Authors:** **Li Xiang Ming, Zhang Xiao Hong, Guo Libing and Li Qing Mei**
	Title: **Application Analysis of Automated Testing Framework Based on Robot** **Authors:** **Liu Jian-Ping, Liu Juan-Juan and Wang Dong-Long**
	Title: **SMIP-WPS: An Scientific Model Integration Platform using Web Processing Service** **Authors: Neng Gong, Xuezhi Wang, Honglin He, Yuanchun Zhou, Jianhui Li, Shasha Li, Xiao Xiao, Li Zhang and Xinzhai Tang**
	Title: **Optimized Methods to Estimate Lower and Upper Bounds for Approximate Cycle Matching in Homogeneous Symmetric Pub/Sub System** **Authors:** **Botao Wang, Lijun Wang, Pingping Liu and Yanbo Bi**
	Title: **An Improved Apriori Algorithm Based on Association Analysis** **Authors: Yubo Jia, Guanghu Xia, Hongdan Fan, Qian Zhang and Xu Li**
	Title: **The application of data mining and the newsboy model in B2B E-Commerce supply chain** **Authors: Liang Daolei**
18:00-21:00	**Banquet**

13:30-15:30	**C1:** Networking　　(15m/P) (Chair: Lican Huang)
Parallel Session C1	**Title:** **Using Dynamic Programming in Delay Tomography** **Authors: Weiping Zhu**
	Title: **RRCP：A Receiver-Driven and Router-Feedback Congestion Control Protocol for ICN** **Authors:** **Mingwei Xu and Chunmei Xia**
	Title: **An adaptive bit-allocation method based on perceptual quality smoothing for wireless video communications** **Authors:** **Hanjie Ma, Jie Feng, Hai Huang, Huaxiong Zhang and Jie Hu**
	Title: **A TRUSTED OPPORTUNISTIC ROUTING ALGORITHM FOR VANET** **Authors:** **Jie Zhizhong, Huang Chuanhe, Xu Liya, Wang Bo, Chen Xi and Fan Xiying**
	Title: **Performance Comparison of Multipath and Unipath routing in Static Scenarios** **Authors:** **Zheng Wan**
	Title: **A Service Differentiation Based Adaptive p-persistent MAC Schem** **Authors: Xiao Chen and Xiao-Dong Wang**

	Title: A New Mechanism of QoS Dynamic Evaluation in Real-time Media Multipath Transmission Authors: Chen Xiao , Lei Weimin, Zhang Wei and Li Manpo
15:30-15:45	**Coffee/Tea Break**
15:45-17:30	C2: Networking (15m/P) (Chair: Lican Huang)
Parallel Session C2	Title: Research of Automatic Digital Multimeter interface technology based on UART Authors: Y Jing Huang, Leling Qiao and Han-Bo Zhang
	Title: Implementation of Broken-point Continuingly-transferring Based on C#.NET Authors: Jiaoli Fang, Ming Liu and Jianhua Wang
	Title: Comparative Research on Internet Flows Characteristics Authors: Xiaoguo Zhang and Wei Ding i.
	Title: On Detection Accuracy of L7-filter and OpenDPI Authors: Chaofan Shen and Leijun Huang
	Title: Algorithms for Finding Maximum Reliability Many-to-Many Multicast Routing Under a Fixed Topology Authors: Wei Ding, Xuerui Wei, Xuelin Nie and Ming Zhou
	Title: The Influence of SNS Network Environment on University Students and the Probe of its Strategies Authors: Yan Chen
	Title: Suboptimum Multiuser Receivers for Coded IDMA Systems Authors: Haibo Peng, Jianhua Ji and Shaohao Wu
18:00-21:00	**Banquet**

October 22, 2012 (Monday)

8:30-18:00	Tutorial
18:00-20:30	**Dinner**

October 23, 2012 (Tuesday)

8:30-18:00	Tutorial
18:00-20:30	**Dinner**

October 24, 2012 (Wednesday)

8:30-18:00	Tutorial
18:00-20:30	**Dinner**

Keynote Speakers

Prof. Junwei Cao

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Distributed Computing with elop

Abstract: In the era of Internet, one of the most ultimate goals is that users can seamlessly access to any computing application or service at anywhere anytime. Computing infrastructuralization is the path to gradually address the challenge. In this work, elop computing is proposed that encapsulates and integrates various computing elements as services, benefiting from existing advanced computing technology, e.g. virtualization and SaaS. Higher levels of services are also provided, e.g. metadata management, resource management and scheduling, security and authorization, which can be utilized to build distributed computing systems in a scalable way. In this talk, the architecture of elop computing is illustrated and corresponding middleware implementation is introduced in details. A typical scenario is given to demonstrate the potential of enabling distributed computing systems with elop.

Biography:
Junwei Cao is currently Professor and Deputy Director of Research Institute of Information Technology, Tsinghua University, China. He is also Director of Common Platform & Technology Division, Tsinghua National Laboratory for Information Science and Technology, Beijing, China. His research is focused on distributed computing technology and applications. Before joining Tsinghua in 2006, Junwei Cao was Research Scientist of Massachusetts Institute of Technology,

USA. Before that he worked as Research Scientist of NEC Europe Ltd., Germany. Junwei Cao got his PhD in computer science from University of Warwick, UK, in 2001. He got his master and bachelor degrees from Tsinghua University in 1998 and 1996, respectively. Junwei Cao has published over 130 academic papers and books. He is a Senior Member of the IEEE Computer Society and a Member of the ACM and CCF.

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Big Data vs Smart Model：Building a Foundation of Sensor Informatics in the Big Data Era

Abstract: Modern sensory systems interact with the physical world via acquiring measurement data. Large sensor network applications such an urban air pollution monitoring require information management over widely distributed sensors under restricted power, processing, storage and communication resources.   The ever increases in size, data-rates and connectivity of the sensor network present significant scale and complexity challenges. Traditional schemes of information management are no longer applicable in such a big data scenario. In this talk, we present a comprehensive study of building a sensor informatics model for modern sensory systems. We demonstrate that how a new sensor informatics model can be built based on the Bayesian theory so that sensor information management and sensory control can be studied within a uniform and systematic foundation through a seamless interaction between models and data.

Bio

Dr. Yike Guo is a professor in computing science in the Department of Computing, Imperial College London. His research is in the areas of large scale scientific data analysis , data mining algorithms and applications, parallel algorithms and cloud computing. He graduated in Computer Science from Tsinghua University of China and has a PhD in Computational Logic and Declarative Programming at Imperial College London. During his PhD study, he was one of the founding members of the field studying uniform declarative programming by integrating functional and logic programming languages. Later, his work on functional coordination forms established a foundation for structured parallel programming. Dr. Yike Guo has been working in the area of data intensive analytical computing since 1995 when he was the Technical Director of Imperial College Parallel Computing Centre. During last 10 years, he has been leading the data mining group of the department to carry out many research projects, including some major UK e-science projects such as: Discovery Net on Grid based data analysis for scientific discovery; MESSAGE on Wireless mobile sensor network for environment monitoring; BAIR on System biology for diabetes study. He has been focusing on applying data mining technology to scientific data analysis in the fields of life science and healthcare, environment science and security. He is the Principal Investigator of the Discovery Science Platform grant from UK EPSRC and he is also the Founder and Chief Technical Officer of InforSense Limited , an Imperial College spin-out company on enterprise platform for business and scientific intelligence.

Dr. Jianhui Li, Professor
Director of Scientific Data Center
Chinese Academy of Sciencs , China, 100190
lijh@sdb.cnic.cn

Title: CAS Data Cloud：Integrated Service of Data, Middleware and Infrastructure

Abstract： Scientific research is becoming increasingly complex and more demanding in terms of computational and data requirements. Generated by applications or collected by some instruments in a variety of disciplines, scientific data are dramatically exploding. Scientific discovery base on data intensive computing is now considered as the ''fourth paradigm'' after theoretical, experimental, and computational science. However, managing, analyzing, crunching and understanding enormous scientific data has become a major challenge. CAS Data Cloud focused on use of cloud technology is established to meet the challenge. The speech presents our efforts in various aspects, including cloud service on data, middleware and infrastructure.

Biography ：

Dr. Jianhui Li, researcher, PhD supervisor, is the incumbent director of Science Data Center of Computer Network Information Center; Chinese Academy of Sciences (CAS) .He is also the Secretary-General of China Committee of CODATA. Dr. Jianhui Li obtained his Ph.D. degree from Institute of Computing Technology, CAS in 2007. He mainly engaged in the research of large-scale data storage and management, semantic based huge data integration. As a major technician,he presided over the information special projects of CAS during "10th Five-Year " and "11th Five-Year" plan period,the platform of the national science and technology infrastructure, 863 projects, directivity innovation project of CAS, international cooperation projects of CAS and many other projects. Dr. Jianhui Li has made a series of achievements in the large-scale data storage and management, huge data processing and data semantics integration and published more than 50 papers, of which 2 SCI articles, more than 20 EI papers, 3 international journals in the Future Generation Computer Systems, Knowledge Information System and other international journals. He also presided over the completion of the development of a national standard and participated in the development of two international standards. He has applied 8 state patents, of which 1 has achieved national patent, and he won more than 10 software copyrights.

Prof. Lican Huang

Institute of Networking & Distributed Computing

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Bio

Prof. Huang works on challenges about Cloud Computing and P2P computing. He has worked on e-Science and Grid computing since the beginning of 2000's. He was honored in Marquis Who's Who in the World 2006, Marquis Who's Who in the Science and Engineering 2006-2007, and Marquis Who's Who in Asia 2006-2007 due to his achievement of proposing Virtual and Dynamic Hierarchical Architecture for e-Science and Grid and VIRGO protocols. He serves as program committee member of many international conferences. He has contributed over 100 technical papers to various conferences and refereed journals.

Prof. Huang now is a Director of Network & Distributed Computing at Zhejiang Sci-Tech University (ZSTU). Prior to joining ZSTU, Prof. Huang worked as a Senior Research Associate in the School of Computer Science at Cardiff University since 2004. Before working at Cardiff University, he developed many large software systems in several companies, as technical leader or department manager. He obtained his Ph.D. in Computer Science from Zhejiang University in 2003, Bachelor's From Nanchang University in 1982, and Master's from Hangzhou University in 1984.

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IEEE Computer Society Technical Committee on Scalable Computing

Information for Conference Arrangements

1、**Registration Place:**　**Days Hotel & Suites Hangzhou**　(杭州凯恩大酒店)
2、**Conference Venue: Days Hotel & Suites Hangzhou**　(杭州凯恩大酒店) Conference Hall
5th floor
3、**Conference Hotel:**　**Days Hotel & Suites Hangzhou**　(杭州凯恩大酒店)
4、**Tour Information:**

　http://www.hzzhonghong.com/

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杭州凯恩大酒店(原杭州凯恩戴斯大酒店)地处杭州经济技术开发区的中心区域，环境优雅，景色怡人，国园绿洲的宁静舒适与现代都市的快捷时尚融为一体。距离萧山国际机场 20 公里，乘坐出租车约 28 分钟，约 50 元到达酒店；距离城站火车站 22 公里，乘坐 K101 路，在观音塘小区站下车，换乘 K566 路，在九号路四号大街口站下车即到酒店；距离汽车东站 17 公里,乘坐 X1 路，在一号路口站下车,换乘乘坐 381 路(或 382 路)，在四号大街九号路口站下车即到酒店；距离武林广场 21 公里，乘坐 326 路，在兴隆村站下车，换乘

起点	名称/位置	距酒店	如何到达酒店
高考考点	浙江理工大学下沙校区	0.87 公里	步行至 四号大街九号路口站,乘坐 366 路(或 373 路,171 路, 210 路, 320 路, k370 路),在 二号大街九号路口站 下车,步行至 浙江理工大学下沙校区
汽车站	汽车东站	17 公里	乘坐 X1 路,在一号路口站下车,换乘乘坐 381 路(或 382 路),在四号大街九号路口站下车即到酒店
机场	萧山国际机场	20 公里	乘坐出租车约 28 分钟,约 50 元到达酒店
市中心	武林广场	21 公里	乘坐 326 路,在兴隆村站下车,换乘 K320 路,在四号大街九号路口站下车即到酒店
火车站	城站火车站	22 公里	乘坐 K101 路,在观音塘小区站下车,换乘 K566 路,在九号路四号大街口站下车即到酒店

Conference Maps