12th EAI International Conference on Collaborative Computing: Networking, Applications and Worksharing

NOVEMBER 12–13, 2016
BEIJING, PEOPLE'S REPUBLIC OF CHINA

INTERNET OF THINGS

SMART CITIES

E-HEALTH

APPLICATIONS FOR FUTURE INTERNET
On behalf of the entire organizing committee, we would like to welcome you to the EAI’s CollaborateCom 2016 conference in Beijing. Since its inauguration in 2005 at United States, EAI’s CollaborateCom has since moved from United States to China. This year's CollaborateCom is its second time in China and the first time in Beijing.

Over the years, CollaborateCom has served as a premier international forum for discussion among academic and industrial researchers, practitioners and students interested in collaborative networking, technology, systems, and applications. Following this tradition, the organizing committee of CollaborateCom 2016 has worked diligently and prepared an excellent and rich program, which includes high quality research papers in technical sessions, together with keynote speeches, industry sessions and workshops. We would like to thank the TPC Co-Chairs, Ao Zhou, Yutao Ma, Mingdong Tang and Shuiguang Deng, together with the Workshop Chairs, Sherry Xu, Yunpeng Xiao, You Ma, as well as all the program committee members, for putting together a strong technical program.

We are indebted to Local Arrangement Chairs, Ruisheng Shi and Jialei Liu. We would also like to express our gratitude to the Publication Chairs, Shizhan Chen, Yucong Duan and Lingyan Zhang. We also acknowledge the hard works and dedications by Social Media Chairs, Xin Xin and Jinliang Xu.

Our gratitude also goes to the sponsors for their generous supports in organizing CollaborateCom 2016 and the many authors who submitted papers. The conference would not be successful without their involvement and participation. It is our great honor to have your attendance, we wish you an enjoyable stay in Beijing. Welcome!

Shangguang Wang,
Beijing University of Posts and Telecommunications, Beijing, China
Zibin Zheng,
Sun Yat-sen University
Xuanzhe Liu,
Peking University

General Chairs of the COLLABORATECOM 2016
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONFERENCE SPONSORS</td>
<td>2</td>
</tr>
<tr>
<td>WELCOME MESSAGE</td>
<td>3</td>
</tr>
<tr>
<td>KEYNOTE SPEAKERS</td>
<td>5-6</td>
</tr>
<tr>
<td>PROGRAM OVERVIEW</td>
<td>7</td>
</tr>
<tr>
<td>PROGRAM IN FULL DAY 1</td>
<td>8-10</td>
</tr>
<tr>
<td>PROGRAM IN FULL DAY 2</td>
<td>11-14</td>
</tr>
<tr>
<td>COMMITTEES</td>
<td>15-16</td>
</tr>
<tr>
<td>VENUE</td>
<td>17</td>
</tr>
<tr>
<td>CONFERENCE ONLINE</td>
<td>18</td>
</tr>
<tr>
<td>EAI SUMMITS</td>
<td>19</td>
</tr>
<tr>
<td>PUBLISHING OPPORTUNITY</td>
<td>20</td>
</tr>
<tr>
<td>BECOME EAI MEMBER</td>
<td>21</td>
</tr>
<tr>
<td>NOTES</td>
<td>22</td>
</tr>
<tr>
<td>ABOUT EAI</td>
<td>23</td>
</tr>
</tbody>
</table>
With the rapid advances in pervasive and cloud computing technologies and smart devices, effective collaborations in various applications can be achieved. In order to have the confidence of users involving critical applications, it is necessary to improve the trustworthiness of the collaborations in these environments. To achieve this goal, a number of challenges need to be met. In this talk, these challenges will be identified, and the existing research to improve the trustworthiness of collaborations in critical applications in these environments will be discussed. Future research directions in relevant areas to meet these challenges, including human factors in pervasive and cloud computing environments with smart devices, will be also discussed.

Biographical Information:
Stephen S, Yau is the director of Information Assurance Center and a professor of computer science and engineering at Arizona State University (ASU), Tempe, Arizona, USA. He served as the chair of the Department of Computer Science and Engineering at ASU in 1994-2001. He received the M.S. and Ph.D. degrees from the University of Illinois, Urbana, and the B.S. degree from National Taiwan University, Taipei, all in electrical engineering.

He served as the president of the Computer Society of the Institute of Electrical and Electronics Engineers (IEEE) and was on the IEEE Board of Directors, and the Board of Directors of Computing Research Association. He served as the editor-in-chief of IEEE COMPUTER. He has served as the honorary chair and general co-chair of the IEEE World Congress on Services and co-located conferences on Service Computing, Cloud Computing, Web Services and Mobile Services. His current research includes service-based systems, cloud computing, ubiquitous computing, cyber security and software engineering. He received a number of awards and recognitions for his accomplishments, including the Tsutomu Kanai Award and Richard E. Merwin Award of the IEEE Computer Society, the Outstanding Contributions Award of the Chinese Computer Federation, and the Louis E. Levy Medal of the Franklin Institute. He is a Fellow of the IEEE and American Association for the Advancement of Science.
With a generic and well-structured service-oriented programming abstraction, developers of PC/Web/Android applications can flexibly define any portion of their data to be accessed in a “Data-as-a-Service” fashion. In addition, combining with software analytics and machine learning techniques from human-service interaction behaviors, we further re-engineer existing legacy systems/applications to comply with the programming abstraction so that their “deep” data can be accessed and explored in a secure and well-defined way. We have realized our “Data-as-a-Service” Cloud-Client Convergence Platform as commercial products, which have been OEMed by Lenovo, Founder, and Digital China. We also demonstrated how deep data can be explored in various domains such as e-Government, Smart City, and so on. In practice, our approach can significantly improve the efficiency of deep-data collection to 100x times as well as save 90% labor cost. The related patents have gained over 200 million RMB royalties.

Biographical Information:
Prof. Dr. Gang Huang is now the deputy director of the Software Engineering Institute and the director of System Research Lab in Peking University. He leads the “Peking University-Digital China” Collaborative Innovation Center as the executive deputy director. Prof. Huang’s research interests include adaptive software systems, services computing, and cloud computing. Prof. Huang is the recipient of China Youth Sci-Tech Prize, National Award for Distinguished Doctoral Dissertation, NSFC Fund of Excellent Young Scientist, CCF Award for Young Scientist, Excellent Talent Award for the New Century awarded by the Ministry of Education, Fok Ying-Tong Education Foundation for Young Teachers, Zhongchuang Award for Software Talent, etc. Prof. Huang won the State Award for Natural Science (2012), the State Award for Technological Invention (2008), and the Ministry-of-Education Award for Science and Technology Advancement (2015). Prof. Huang has published over 80 papers on top venues such as IEEE TMC, TSC, OOPSLA, ICSE, WWW, FSE, UbiComp, and so on. He received 5 best paper awards from international conferences. He served as the Program Committee Chair of SOSE 2013 and COMPSAC 2015, and the editorial board of Journal of Internet Services and Applications and Journal of Frontiers of Computer Science.
# PROGRAM OVERVIEW

## DAY 1 – SATURDAY, 12 NOVEMBER 2016

### ROOM A

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 – 11:00</td>
<td>KEYNOTE SPEECH</td>
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<tr>
<td>11:00 – 11:10</td>
<td>COFFEE BREAK</td>
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<tr>
<td>11:10 – 12:30</td>
<td>SESSION A1</td>
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<tr>
<td>12:30 – 13:30</td>
<td>LUNCH</td>
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<tr>
<td>13:30 – 15:20</td>
<td>SESSION A2</td>
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<tr>
<td>15:20 – 15:40</td>
<td>COFFEE BREAK</td>
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<td>15:40 – 17:30</td>
<td>SESSION A3</td>
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### ROOM B

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## DAY 2 – SUNDAY, 13 NOVEMBER 2016

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<tr>
<td>9:00 – 10:40</td>
<td>SESSION A4</td>
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<td>10:40 – 11:00</td>
<td>COFFEE BREAK</td>
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<tr>
<td>11:00 – 12:20</td>
<td>SESSION A5</td>
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<td>12:20 – 13:30</td>
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<td>13:30 – 14:50</td>
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<td>14:50 – 15:10</td>
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<td>15:10 – 16:30</td>
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<td>10:40 – 11:00</td>
<td>COFFEE BREAK</td>
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<td>11:00 – 12:20</td>
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<td>12:20 – 13:30</td>
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<td>13:30 – 14:50</td>
<td>SESSION B6</td>
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<tr>
<td>14:50 – 15:10</td>
<td>COFFEE BREAK</td>
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<tr>
<td>15:10 – 16:30</td>
<td>SESSION B7 (including workshop)</td>
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</tbody>
</table>
8:30 – 9:00  REGISTRATION
9:00 – 11:00  OPENING AND THE KEYNOTE SPEECH
11:00 – 11:10  COFFEE BREAK
11:10 – 12:30  SESSION A1

**Enabling Technologies for Collaborative Computing Systems**

**Collaborative Communication in Multi-Robot Surveillance Based on Indoor Radio Mapping**  
by Yunlong Wu, Bo Zhang, Xiaodong Yi, Yuhua Tang

**Rating Personalization Improves Accuracy: a Proportion-based Baseline Estimate Model for Collaborative Recommendation**  
by Zhenhua Tan, Liangliang He, Hong Li, Xingwei Wang

**Collaborate Algorithms for the Multi-channel Program Download Problem in VoD Applications**  
by Wenli Zhang, Lin Yang, Kepi Zhang

**Collaborative Prediction Model of Disease Risk by Mining Electronic Health Records**  
by Shuai Zhang, Lei Liu, Hui Li, Lizhen Cui

**SESSION B1**

**Scheduling Strategy**

**Dynamic Scheduling Method of Virtual Resources Based on the Prediction Model**  
by Chongbin Deng, Dongju Yang, Zhuofeng Zhao

**Energy-and-Time-Saving Task Scheduling Based on Improved Genetic Algorithm in Mobile Cloud Computing**  
by Jirui Li, Xiaoyong Li, Rui Zhang

**Real-Time Scheduling for Periodic Tasks in Homogeneous Multi-Core System with Minimum Execution Time**  
by Ying Li, Jianwei Niu, Jiong Zhang

**Data-intensive Workflow Scheduling in Cloud on Budget and Deadline Constraints**  
by Zhang Xin, Changze Wu, Kaigui Wu
12:30 – 13:30 LUNCH

13:30 – 15:20 SESSION A2

Collaborative Application

3-D Design Review System in Collaborative Design of Process Plant
by Jian Zhou

Exploring External Knowledge Base for Personalized Search in Collaborative Tagging Systems
by Dong Zhou, Xuan Wu, Wenyu Zhao, Seamus Lawless, Jianxun Liu

A Reliable Replica Mechanism for Stream Processing
by Weilong Ding, Zhuofeng Zhao, Yanbo Han

An Approach of Extracting Feature Requests from App Reviews
by Zhenlian Peng, Jian Wang, Keqing He, Mingdong Tang

Course Relatedness Based on Concept Graph Modeling
by Jingwen Pang, Qinghua Cao, Qing Sun

SESSION B2

Collaboration in Service Recommendation

Web APIs Recommendation for Mashup Development based on Hierarchical Dirichlet Process and Factorization Machines
by Buqing Cao, Jianxun Liu, Yizhi Liu

Abnormal Group Users Detection based on Multi-dimension Time Series for Recommender Systems
by Wei Zhou, Junhao Wen, Ling Liu, Haini Cai, Jun Zeng, Tian Cheng

The Service Recommendation Problem: an overview of traditional and recent approaches
by Yali Zhao, Shangguang Wang

Service Recommendation Based on Topics and Trend Prediction
by Yu Lei, Philip S Yu, Junxing Zhang

A Novel Service Recommendation Approach Considering the User’s Trust Network
by Guoqiang Li, Zibin Zheng, Haifeng Wang, Zifen Yang, Zuoping Xu, Li Liu
15:20 – 15:40  COFFEE BREAK

15:40 – 17:30  SESSION A3

Quality of Service

A Time-Aware Weighted-SVM Model for Web Service QoS Prediction
by Dou Kai, Guo Bin, Li Kuang

QoS Prediction based on Context-QoS Association Mining
by Yang Hu, Qibo Sun, Jinglin Li

Runtime Exceptions Handling for Collaborative SOA Applications
by Bin Wen, ziqiang Luo, Song Lin

Research on Short-term prediction of Power Grid Status Data Based on SVM
by Jianjun Su, Yi Yang, Danfeng Yan, Ye Tang, Zongqi Mu

Quality-Assure and Budget-Aware Task Assignment for Spatial Crowdsourcing
by Qing Wang, Wei He, Xinjun Wang, Lizhen Cui

SESSION B3

Network and Routing

An Effective Buffer Management Policy for Opportunistic Network
by Yin Chen, Wenbin Yao, Ming Zong, Dongbin Wang

Dynamic Load Balancing for Software-Defined Data Center Networks  Video
by Yun Chen, Weihong Chen, Yao Hu, Lianming Zhang, Yehua Wei

A More Flexible SDN Architecture Supporting Distributed Applications
by Wen Wang, Cong Liu, Jun Wang

The Routing Model based on Service Degree and Residual Energy in WSN
by Zhenzhen Sun, Wenlong Chen, Xiaolan Tang, Guangwu Hu

Real-time Dynamic Decomposition Storage of Routing Tables
by Wenlong Chen, Lijiang Lan, Xiaolan Tang, Shuo Zhang, Guangwu Hu
SESSION A4

Methodology

Parallel Seed Selection for Influence Maximization Based on k-shell Decomposition
by Hong Wu, Kun Yue, Yujie Wang, Xiaodong Fu, Weiyi Liu
A Continuous Segmentation Algorithm for Streaming Time Series
by Yupeng Hu, Cun Ji, Ming Jing, Yiming Ding, Shuo Kuai, Xueqing Li
How to Win Elections
by Sobehy Abdallah, Ben-Ameur Walid, Afifi Hossam, Bradai Amira
Sweets: A Decentralized Social Networking Service Application Using Data Synchronization on Mobile Devices
by Rongchang Lai, Yasushi Shinjo
LBDAG-DNE: Locality Balanced Subspace Learning for Image Recognition
by Chuntao Ding, Qibo Sun

SESSION B4

Collaboration Techniques in Data-intensive Computing

Gaussian LDA and Word Embedding for Semantic Sparse Web Service Discovery
by Gang Tian, Jian Wang, Ziqi Zhao, Junju Liu
A MapReduce-based Distributed SVM for Scalable Data Type Classification Video
by Chong Jiang, Ting Wu, Jian Wu, Ning Zheng, Ming Xu
An Adaptive Multiple Order Context Huffman Compression Algorithm based on Markov Model Video
by Yonghua Huo, Zhihao Wang, Junfang Wang, Kaiyang Qu, Yang Yang
A method of recovering HBase records from HDFS based on checksum file
by Lin Zeng, Ming Xu, Jian Xu, Ning Zheng
A novel hybrid data mining framework for credit evaluation
by Yatao Yang, Zibin Zheng, Chunzhen Huang, Kunmin Li

10:40 – 11:00 COFFEE BREAK
11:00 – 12:20  SESSION A5  

*Security*

**Geospatial Streams Publish with Differential Privacy**  
by Yiwen Nie, Liusheng Huang, Zongfeng Li, Shaowei Wang, Zhenhua Zhao, Wei Yang, Xiaorong Lu

**Security Testing of Software on Embedded Devices Using x86 Platform**  
by Yesheng Zhi, Yuanyuan Zhang, Juanru Li, Dawu Gu

**Android Protect: Android Apps security analysis system**  
by Tong Zhang, Tao Li, Hao Wang, Zhijie Xiao

**Improvement of Decision Tree ID3 Algorithm**  
by Lin Zhu, Yang Yang

**An Improvement Direction for the Simple Random Walk Sampling: Adding Multi-homed nodes and Reducing Inner Binate nodes**  
by Bojiao Yang, Ronghua Guo, Yican Jin, Xuejun Yuan, Zhe Han, Fei Huang

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SESSION B5  

*Collaborative Cloud Computing*

**PANP-GM: A Periodic Adaptive Neighbor Workload Prediction Model Based on Grey Forecasting for Cloud Resource Provisioning**  
by Yazhou Hu, Bo Deng, Fuyang Peng, Dongxia Wang, Yu Yang

**Cloud Computing-based Enterprise XBRL Cross-Platform Collaborated Management**  
by Liwen Zhang

**Towards scheduling data-intensive and privacy-aware workflows in clouds**  
by Yiping Wen, Wanchun Dou, Buqing Cao, Congyang Chen

**Spontaneous Proximity Clouds: Making Mobile Devices to Collaborate for Resource and Data Sharing**  
by Roya Golchay, Le Mouël, Frédéric, Julien Ponge, Nicolas Stouls

**Review of Heterogeneous Wireless Fusion in Mobile 5G Networks: Benefits and Challenges**  
by Yuan Gao, Hong Ao, Quan Zhou, Zhaoyang Li, Weiqui Zhou, Shaochi Cheng, Xiangyang Li, Yi Li
Alleviating Data Sparsity in Web service QoS Prediction by Capturing Region Context Influence
by Zhen Chen, Limin Shen, Dianlong You, Feng Li, Chuan Ma

DRIS: Direct Reciprocity Based Image Score Enhances Performance in Collaborate Computing System
by Kun Lu, Shiyu Wang, Qilong Zhen

A Participant Selection Method for CrowdSensing under an Incentive Mechanism
by Shu Li, Jun Yang, Wanchun Dou, Qiang Ni

Investigation on the optimization for storage space in register-spilling
by Guohui Li, Yonghua Hu, Wenti Huang, Yaqiong Qiu

On Demand Resource Scheduler Based on Estimating Progress of Jobs in Hadoop
by Liangzhang Chen, Jie Xu, Kai Li, Qi Qi, Jiangyu Wang

Research on Ant Colony Clustering Algorithm based on HADOOP platform
by Zhihao Wang, Yonghua Huo, Junfang Wang, Kang Zhao, Yang Yang

E-commerce Blockchain Consensus Mechanism for supporting High-throughput and Real-time Transaction
by Yuqin Xu, Qingzhong Li, Xingpin Min, Lizhen Cui, Zongshui Xiao, Lanju Kong

MyTeam: a collaboration tool for Small and Medium Sized companies
by Guido, Anna Lisa

Mining on emotional trend of specific event on Sina Weibo
by Fu Chen

A Method on Chinese Thesauri
by Fu Chen
14:50 – 15:10  COFFEE BREAK

15:10 – 16:30  SESSION A7  

*Network Communication*

**Optimal Control for Correlated Wireless Multiview Video Systems**  
by Yi Chen, Ge Gao

**Formal modelling and analysis of TCP for nodes communication with ROS**  
by Yanyan Huo, Yong Guan, Rui Wang, Jie Zhang

**CrowdEV: Crowdsourcing Software Design and Development**  
by Wei Duan

**A Cluster-Based Cooperative Data Transmission in VANETs**  
by Qi Fu, Anhua Chen, Yunxia Jiang, Mingdong Tang

**An Evolutionary Approach to Minimize Network Coding Resources**  
by Peixian Liang

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**SESSION B7  
Social Network**

**Detecting False Information of Social Network in Big Data**  
by Yi Xu, Furong Li, Jianyi Liu, Ru Zhang, Yuangang Yao, Dongfang Zhang

**Recommendflow: Use Topic Model to Automatically Recommend Stack Overflow Q&A in IDE**  
by Fumin Sun, Xu Wang, Hailong Sun, Xudong Liu

**Generate integrated land cover product for regional climate model by fusing different land cover products**  
by Hao Gao, Gensuo Jia, Yu Fu

**A Novel Social Search Model Based on Clustering Friends in LBSNs**  
by Yang Sun, Jiuxin Cao, Tao Zhou, Shuai Xu

**Image location algorithm by histogram matching**  
by Xiaoqiang Zhang, Junzhang Gao
STEERING COMMITTEE

Imrich Chlamtac, Create-Net and University of Trento, Italy
Song Guo, University of Aizu, Japan
Bo Li, The Hong Kong University of Science and Technology, China
Xiaofei Liao, Huazhong University of Science and Technology, China

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Songtai Dai, Beijing University of Posts and Telecommunications

Conference Manager
Lenka Laukova, EAI - European Alliance for Innovation
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<tr>
<th>Committee</th>
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COLLABORATECOM 2016 will take place in the **BUPT Hotel**

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Once a year, European Alliance for Innovation (EAI), brings together a comprehensive range of key researchers, important industry players and innovation stakeholders for each of its four thematic areas: Smart City, Internet of Things, Applications for Future Internet, eHealth.

Meeting at the EAI 360° summit, members have a chance to transfer their year-round collaboration activities into on-site opportunities for presentations, meetings, cooperation, recognition, strategy and hands-on experience of the best innovations of the year.

The summits are also designed to give a 360 degree perspective on the four topics and help innovation reach the market through community.

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- Community
- Visibility
- Prestige
EAI was created by leaders from industry, research, and policy making organisations to engage the global community with the shared goal of securing Europe’s future competitiveness through innovation.

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Thank you for participating at EAI conference! We hope to see you again!