

CyberC 2017: The 9th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery

Location and Dates: Nanjing, China, October 12 - 14, 2017

Web: www.Cyberc.org

Paper Submission: <https://edas.info/N23496> or Login EDAS at <http://edas.info/> by selecting "CyberC 2017". Electronic submission to Papers@cyberc.org with a title of "CyberC 2017 Submission" is also accepted.

Co-sponsored by: IEEE Communication Society, IEEE Big Data Initiative, IEEE Software Defined Software, IEEE Communications Society Technical Sub-Committee on Big Data (TSCBD).

Publication: IEEE Conference Publishing Services (2016 conference date: Oct. 13-15 2017, IEEE Collected date: March 3, 2017, EI index date: April 10, 2017)

Scope: CyberC promotes the in-depth exploration of the most recent research and development findings in the field of big data, distributed computing, clouds, cyber security, pervasive computing, mobile computing, Internet of Things, and other cyber-relevant technologies. CyberC welcomes the participation of the industry to showcase and commercialize their relevant technology and products. Scientists, engineers, and students in the areas are encouraged to get involved. You are cordially to submit your original papers in the following topics, but not limited to:

Big Data and Information Discovery

- Big data algorithms, models, and systems for big data
- Machine learning and Artificial intelligence for big data
- Big data hardware and software design, middleware and analytics
- Hadoop, Storm, Spark, and other big data analytic tools
- Massive data streaming, scalable computing, big data task deployments
- Cloud and high performance computing for big data
- Big data retrieval, storage, query, communications, and database
- Big data preservation, filter, provenance, and assurance
- Big data security, protection, integrity and privacy standards and policies
- Graph mining and opinion mining, and distributed data mining
- Big data streaming, multimedia, stream, or web mining
- Big data applications, image/multimedia data management
- Database for Big data, Big Data on social network analytics
- Security and information assurance for Big Data

Cyber and Distributed Computing

- Authentication, trust, privacy and other Cyber security issues
- Parallel and distributed algorithms, resource allocation, load-balance, and management
- Cloud computing, mobile cloud, mobility-aware cloud data/streams
- SOA, web services, and mobile services (software, infrastructure, platform as a service)
- Web services and internet computing
- Web-caching, content delivery systems and data distribution systems
- Distributed systems and applications, modeling language, and software engineering
- Pervasive/ubiquitous computing and intelligence

5G and Mobile Computing

- Wireless ad hoc networks, wireless mesh networks, networking theory and algorithms
- Wireless embedded sensor systems, body sensor, new sensing capabilities & security
- Cognitive radio and SDR
- Future generation communications for 5G or 4G beyond (WiMAX, LTE)
- Peer-to-peer network computing and overlaying networks
- Directional antenna and networking
- FDMA/OFDMA modulations, synchronization, and power optimization
- Mobile IP and Internet technology
- Key, attacking models, privacy, confidentiality & security in mobile wireless networks
- Communication, services, middleware, and multimedia on wireless networks
- QoS, reliability, performance, and communication theory
- Wireless network simulations, implementation, and applications

Cloud Computing and Mobile Clouds

- Autonomic, real-time and self-organizing clouds
- Architectural models for public and private cloud computing
- Cloud resource management and allocation
- Utility models and service pricing
- New parallel / concurrent programming models for cloud computing
- Scientific computation and other applications in the cloud
- Mobility modeling, management and measurement for mobile clouds
- Mobile multimedia content delivery, transferring, and migration
- Content delivery networks using storage clouds
- User Experience and Cyber Security
- Performance evaluation, measurement and optimization
- Communications and network security
- Information security, software security, system security, or applied cryptography
- Tools, test-bed, simulations, and experimental environments
- Collaborative and cooperative environments
- QoS, Autonomic, reliability, and fault-tolerance

INFORMATION FOR AUTHORS

The CyberC 2017 Proceedings will be published by IEEE CPS. Full papers for CyberC 2017 must not exceed 10 pages of IEEE 2-column format, while short papers must not exceed 4 pages. Please visit the conference web site at <http://www.cyberc.org> for precise formatting and submission instructions.

IMPORTANT DATES

Submission deadline for full (10-page) and/or short (4-page) papers: May 15, 2017

Notification of acceptance: July 15, 2017

Camera-ready deadline: August 15, 2017

Special Issue: A Journal special issue (EI index) - International Journal of Embedded Systems - will be published with selected papers.

IEEE Big Data Competition: 2017 IEEE Big Data Competition (USD \$500-1000): Organized by IEEE Big Data Initiative and CyberC.

Workshops: CyberC is co-hosted with the following workshops:

- Big Data 2017: The 4th International Workshop on Big Data
- Security 2017: The 5th workshop on Cyber Security and Privacy
- SDN&NFV 2017: The 2nd workshop on Software Defined Network and Network Function

Virtualization

- IOT 2017: The 1st International Workshop on Internet of Things and Future

Communication Technologies

- Smart Cities2017: The 5th workshop on Smart Cities Enabling Technologies.

Distribution: You are welcome to distribute this CFP to your society.

Program Committee

Honorable General Chairs

David Lu, AT&T, USA

Tao Li, Nanjing University of Posts and Telecommunications, China

Summit/Keynote Chairs

Chi-Ming Chen, AT&T Labs, USA

Program Co-Chairs

Bin Xie, InfoBeyond Technology LLC, USA

Xiaolong Xu, Nanjing University of Posts and Telecommunications, China

Shaoliang Peng, National University of Defense Technology, China

Workshop Co-Chairs

Chi-Tsun (Ben) Cheng, The Hong Kong Polytechnic University, Hong Kong

Ning Cao, Qingdao Binhai University, China

Xiaohui Zhang, InfoBeyond Technology LLC, USA
Mohammad S Khan, Texas A&M University-Kingsville, USA

Publicity Co-Chairs

Sammy Yang, Board Chinese Institute of Engineers, USA
Donghoon Lee, Korea University, Korea
Xiuhua Li, Beijing University of Posts and Telecommunications, China
Lijun Zhang, Chinese Academy of Sciences, China

Local Coordination Co-Chairs

Dongmei Sun, Beijing Jiaotong University, China
Committee Members in Nanjing (To be named)

Steering Committee

Anup Kumar, (Chair) University of Louisville, USA
Chi-Ming Chen, AT&T Labs, USA
Chung-Min Chen, Iconectiv, USA
Alok Srivastava, Microsoft, USA
Jiangzhou Wang, University of Kent, UK

Financial Co-Chairs

Sanjuli Agrawal, Indiana University Southeast, USA
Yingbing Yu, Austin Peay State University, USA

Big Data Summit Co-Chairs

Chung-Min Chen, Iconectiv, USA

Secretary and Coordinator

Debbie Qiu, InfoBeyond Technology LLC, USA

Student Volunteers

Tingting Cai, Beijing Jiaotong University, China
Ruihong Jiang, Beijing Jiaotong University, China
Fuqing Wan, Beijing University of Posts and Telecommunications, China
Guangpei Liu, Beijing University of Posts and Telecommunications, China

Technical Program Committee

Ahmed Badi, Florida Atlantic University, USA
AlexandreKandalintsev, University of Trento, Italy
AtillaElci, Aksaray University, Turkey
Atta urRehman Khan, University of Malaya, Malaysia
Antonio Abramo, University of Udine, Italy
Benoit Hudzia, SAP Research, UK
Bo Jiang, Intel, USA
Chen Qian, University of Kentucky, USA
Chukwuemeka David Emele, University of Aberdeen, UK
Dejing Dou, University of Oregon, USA
Ding-Yaeh Hung, WuFeng University, Taiwan
Donglin Wang, New York Institute of Technology, USA
DorsafAzzabi, Canadian University of Dubai, UAE
Hsung-Pin Chang, National Chung Hsing University, Taiwan
Hufeng Zhou, Brigham and Women's Hospital and Harvard Medical School, USA
Hui Lu, Beihang University, P.R. China
Cheng Chang, National DongHwa University, Taiwan
Jing He, Kennesaw State University, USA
JorgDummler, Chemnitz University of Technology, Germany
Jun He, University of New Brunswick, Canada
Manar Ibrahim FawziHosny, King Saud University, Saudi Arabia
Man Ho Au, University of Wollongong, Australia
Maurizio Dusi, NEC Laboratories Europe, Germany
Min Wu, Oracle Corporation, USA
Mohammad Shoeb Khan, University of Louisville, USA
Nicolas Sklavos, Technological Educational Institute of Patras, Greece

Nuno Vasco Lopes, University of Minho, Portugal
Omid Mahdi Ebadati E., THamdard University, India
RajdeepBhowmik, Cisco Systems Inc., USA
Ricardo Lopes Pereira, INESC-ID/Instituto Superior Técnico, Portugal
Ricardo Rodriguez, Technological University of Ciudad Juarez, Mexico
ShanmugasundaramHariharan, TRP Engineering College, India
Song Cui, Stanford University, USA
SubinShen, Nanjing University of Posts & Telecommunications, China
Timothy W. Hnat, University of Memphis, USA
Tuan T. Tran, InfoBeyond Technology LLC, USA
Vic Grout, Glyndwr University, UK
Wei-Da Hao, Texas A&M University-Kingsville, USA
Weirong Jiang, Xilinx, USA
Xian-Hua Han, Ritsumeikan University, Japan
XinyuQue, IBM, USA
Xuewen (Sean) Gong, Huawei Technologies, China
YaserJararweh, Jordan University of Science and Technology, Jordan
ZhanlinJi, University of Limerick, Ireland
Zhefu Shi, Microsoft, USA
Zhengyu He, Google, USA

Please contact us at papers@cyberc.org if you have any questions about participations, call for papers, paper submission, publicity, sponsorships, logistics, traveling, and others.