



## **SPAN 2016**

### **The Third International Workshop on Sensor, Peer-to-peer and Social Networks, ICNC 2016**

In conjunction with  
The 2016 International Conference on Computing, Networking and Communications  
ICNC 2016, Kauai, Hawaii, USA, February 15-18, 2016

<http://www.conf-icnc.org/2016/>

Workshop Paper Submission Link: <http://edas.info/N20859>

### **Workshop Scope**

**SPAN 2016** aims to attract attention from the research community to the interplay of algorithmic tools and techniques in the collective fields of *Sensor*, *P2P* and *Social Networks*. Smart, wireless, networked sensors will soon be all around us, collectively processing vast amounts of previously unrecorded data to help run factories, optimize farming, monitor the weather and myriad other applications. It is clear that wireless sensor networks will become as important as the Internet, capable of routing application-specific data across a wireless mesh, ad hoc peer-to-peer network in which they organize themselves and assist each other in transmitting data. These advances made in the area of *sensor* networks will naturally have a profound impact on our understanding and operation of *traditional* Peer-to-peer (*P2P*) systems which are widely used in today's Internet. The confluence of ideas driving sensor and *P2P* systems is expected to be intensified by *social* networks. By attracting more than half a billion users worldwide, social networks provide a new venue of innovation with many challenging and practical research problems. In particular, as time evolves, *P2P* and future sensor network applications will necessarily need to involve social information to enhance the user's experience.

SPAN 2016, aptly named for its goal, is organized with the objective of bringing together researchers working on the *intersection* of Sensor, Peer-to-Peer (*P2P*), and Social Networks to present and discuss their latest research results and ideas, thereby promoting the development and **SPANning** the evolution of this combined body of knowledge. All submissions enabling cross-pollination of ideas on *P2P*, Sensor and Social Networks related to design, simulation, security, analysis and measurement are welcome. We highly encourage novel and innovative previously unpublished work, even reporting work in early stages. Topics revolve around the interplay of algorithms, tools and techniques applicable in sensor, p2p and social networks and include, but are not limited to:

- Social network analysis techniques applied to P2P, Sensor and distributed computing systems
- Socially informed Sensor/P2P infrastructures
- Social Network-inspired systems and designs for P2P and Sensor
- P2P and Sensor Network-based social networking architectures
- Socially Aware Sensor/P2P Overlay architectures and topologies
- Evolution of P2P and social communities and systems
- Reputation, incentives, and economics in P2P/Sensor/Social systems
- Mobile P2P and social networking systems
- User behavior analysis and modeling in Social Networks and applications to P2P and Sensor networks
- Decentralized Social Networks Applications
- Graph theoretic analysis of Sensor, P2P and Social networks
- Security, privacy and anonymity issues in SPAN
- Policy enforcement, participation incentives, trust, and reputation
- Cooperation, incentives, and fairness in SPAN.
- P2P, sensor and social network economics

Papers accepted for the SPAN 2016 workshop will be, after being presented onsite at the workshop, included in the proceedings to be submitted for publication in IEEE Xplore and indexing by EI Compendex.

### **Important Dates:**

When:	Monday, Feb. 15, 2016
Where:	Kauai, Hawaii, USA
Submission Deadline:	July 31, 2015
Notification Due:	September 30, 2015
Final/Camera-Ready Version Due:	October 20, 2015

### **Organizing Committee:**

- ✓ Lei Chen, Georgia Southern University, Statesboro, GA, USA, [lchen@georgiasouthern.edu](mailto:lchen@georgiasouthern.edu)
- ✓ Narasimha Shashidhar, Sam Houston State University, Huntsville, TX, USA, [karpoor@shsu.edu](mailto:karpoor@shsu.edu)

### **Tentative List of Technical Program Committee (TPC) Members**

- ✓ Dr. Peter Cooper, Sam Houston State University
- ✓ Dr. Yuan Feng, Ocean University of China
- ✓ Dr. Feng Hong, Ocean University of China
- ✓ Dr. Chris Kadlec, Georgia Southern University
- ✓ Dr. Chadi Kari, Bridgewater State University
- ✓ Lixin Li, Georgia Southern University
- ✓ Dr. Qingzhong Liu, Sam Houston State University
- ✓ Dr. Hassan Takabi, University of North Texas
- ✓ Dr. Rakesh Verma, University of Houston
- ✓ Dr. Shaoen Wu, Ball State University
- ✓ Dr. Ming Yang, Kennesaw State University
- ✓ Dr. Qing Yang, Montana State University

✓ Dr. Shengli Yuan, University of Houston-Downtown

### Submission Guidelines

Papers must be submitted electronically in PDF format via the SPAN 2016 Workshop portal on the EDAS paper processing submission website. IEEE templates for LaTeX and Microsoft Word, as well as related information, can be found at the IEEE Digital Toolbox web page. Authors are encouraged to submit full papers describing original, previously unpublished, complete research, not currently under review by another workshop, conference or journal, addressing state-of-the-art research and development in all areas of Sensor/P2P and Social Networks. The organizing committee of ICNC reserves the right to not review papers that either exceed the length specification or have been submitted or published elsewhere. Papers should be submitted as PDF files, using the IEEE Computer Society proceedings format (two column, 10 point, single-spaced, US Letter, no margin smaller than one inch). The maximum length of the papers should be 5 pages including tables and figures with up to 2 over-length pages. Extra pages are charged \$150 per over-length page. Each submission will receive at least three independent blind reviews from the TPC. All submissions will be evaluated using a double-blind review process. To ensure blind reviewing, papers should be anonymized by removing author names and affiliations, as well as by masking any information about projects and bibliographic references, etc. that might reveal the authors' identities. Papers that are not properly anonymized will be rejected without review. Submitted papers should describe original and previously unpublished research and are not allowed to be simultaneously submitted or under review elsewhere. Specifically, all paper submissions will receive between 3 and 5 reviews each; while all papers will receive at least 3 reviews, papers of sufficient quality will undergo a second reviewing phase. To be published in the conference proceedings and IEEE Xplore, an author of an accepted paper is required to register for the workshop at the full (member or non-member) rate and the paper must be presented at the workshop. Non-refundable registration fees must be paid prior to uploading the final IEEE formatted, publication-ready version of the paper. For authors with multiple accepted papers, one full registration is valid for up to 2 papers.

### Author Instructions

Please follow the author guidelines at <http://www.conf-icnc.org/2016/>  
Workshop papers should be submitted via EDAS at the workshop page: <http://edas.info/N20859>  
If you have any questions or concerns, please write to us at [lchen@georgiasouthern.edu](mailto:lchen@georgiasouthern.edu) or [karpoor@shsu.edu](mailto:karpoor@shsu.edu).

### Contact Information for Workshop Organizers:

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The format for the workshop, accepted papers and the invited speaker will be announced soon. Please let us know if you need any further information from us. We look forward to your contributions!

### Short biography of Workshop Organizers

**Dr. Lei Chen** received his B.Eng. degree in Computer Science from Nanjing University of Technology, China, in 2000, and Ph.D. degree in Computer Science from Auburn University, USA, in Aug. 2007. He was with Sam Houston State University as an Assistant and tenured Associate Professor in Computer Science between 2007 and August 2015. Dr. Chen is currently an Associate Professor at Georgia Southern University in Stateboro, GA. Dr. Chen has been actively working in research in computer networks, network security, and wireless and multimedia networking. In the last two years he had eighteen publications in these areas. He also serves in the editorial advisory/review board and the Technical Program Committee (TPC) of a number of books, journals and conferences.

**Dr. Narasimha Shashidhar** received the B.E. degree in Electronics and Communication Engineering from The University of Madras in 2001, and the M.S. and Ph.D. degrees in Computer Science and Engineering from The University of Connecticut in 2004 and 2010, respectively. He is currently an Assistant Professor in the Computer Science Department at Sam Houston State University, Huntsville, TX. His research interests include Cryptography, Information Hiding, Steganography, Electronic Voting and Security, Peer-to-Peer/Sensor Networks and Context-aware pervasive communication. He was a part of the Voting Technology and Research Center (VoTeR) at the University of Connecticut where he advised the State of CT on the security and deployment of electronic voting machines. He has over 25 conference/journal publications and also serves in the editorial advisory/review board and the Technical Program Committee (TPC) of a number of books, journals and conferences.

### Planned Format for the Full-Day Workshop

Time	Schedule
9:00 am	Introduction to the workshop Workshop goals and process Introduction of participants
9:15 am	Invited Keynote Speaker
9:45 am	Session 1 (2/3 presentations – Sensor Networks)
11:00 am	Coffee break
11:15 am	Session 2 (2/3 presentations – P2P Networks)
12:30 pm	Lunch Break
1:30 pm	Session 3 (2/3 presentations – Social Networks)
3:00 pm	Coffee break
3:20 pm	Small group discussions and feedback
4:00 pm	Closing comments from organizers
4:30 pm	Adjournment