

5th IEEE International Conference on Smart Computing (SMARTCOMP 2019)

Submitted by KNEW on Thu, 01/17/2019 - 10:56am

[Jun 12, 2019 8:00 am - Jun 15, 2019 8:00 pm EDT](#)

Call for Papers

5th IEEE International Conference on Smart Computing (SMARTCOMP 2019)

12-14 June 2019 | Residence Inn Arlington Pentagon City, Arlington, VA | <http://www.smart-comp.org/>

SMARTCOMP is the premier conference on smart computing. Smart computing is based on the synergistic combination of advances in Sensor-based technologies, the Internet of Things (IoT), Cyber-Physical Systems, Edge computing, Big Data analytics, Machine Learning, Cognitive Computing, and Artificial Intelligence.

Smart computing is a multidisciplinary domain. Applications of smart computing can be found in different societal domains including, but not limited to, transportation, energy, environmental protection, smart and connected communities, healthcare, banking, entertainment, and social media. Algorithmic and system advancements of cloud computing, mobile/pervasive computing, cyber-physical systems, sensor networking and social computing are taking smart computing to a new dimension and improving our ways of living.

The IEEE International Conference on Smart Computing (SMARTCOMP) celebrates this year its 5th edition in Washington D.C., USA, on June 12-14. Over the years, SMARTCOMP has become one of the premier conferences in the field of smart computing.

TECHNICAL PROGRAM HIGHLIGHTS

This year's program includes two keynote talks by Dinesh Verma (IBM) and Dr. Wendy Nilsen (NSF) on cutting-edge smart computing research

- 34 high-quality papers on hot topics related to Smart Computing
- 2 keynotes by renowned top scientists:
 - Dr. Dinesh Verma, IBM T. J. Watson
 - Dr. Wendy Nilsen, NSF Program Director on Smart and Connected Health
- Panel on key SMARTCOMP topics:
 - Moderator and Participants:

- Dr. Gurdip Singh, Syracuse University
 - Dr. Nalini Venkatasubramanian, UC Irvine
 - Dr. Ben Levine, Metrolab Network
 - Dr. Meghan Houghton, NSF
 - Dr. Antonio Puliafito, University of Messina
- 5 workshops on cutting-edge topics
- Keynotes:
 - Keynote #1: Thursday 13th June 9:00 a.m. - 10:00 a.m.
 - Dr. Dinesh Verma, IBM Fellow, Distributed AI
 - Topic: Distributed AI for Intelligence at the Edge
 - Keynote #2: Friday 14th June 9:00 a.m. - 10:00 a.m.
 - Dr. Wendy Nilsen, Program Director, Smart and Connected Health, NSF
 - Topic: With so many trained professionals and so much money, why can't medicine and healthcare be smarter?
- Panel: Wednesday, 12th June 3:30 p.m. - 5:00 p.m.
 - Topic: How to Build Smart and Connected Communities: Challenges and Approaches
 - Organizer and Moderator - Dr. Gurdip Singh, Syracuse University
 - Panelists (confirmed):
 - Dr. Nalinka Venkatasubramanian, UC Irvine
 - Dr. Ben Levine, Metrolab Network
 - Dr. Meghan Houghton, NSF
 - Dr. Antonio Puliafito, University of Messina, Italy
- Industry Track: Friday, 15th June 1 p.m. - 3:00 p.m.
 - Topic: How to Build Smart and Connected Communities: Challenges and Approaches
 - Invited Talk by Dr. Julien Stamatakis, Title: The Power of the Internet of Things: Harnessing IoT for Building Efficiency (1:00-1:30)
 - Invited Talk by Prof. Jonathan Fink, Title: Digital City Testbed Center: Using campus testbeds to help cities, companies and residents assess smart city innovation (1:30-2:00)
- Other Talks:
 - Seraphin Calo, Maroun Touma, Franck Le, Douglas Freimuth, Erich Nahum and Dinesh Verma. A Smart System for Characterizing IoT Devices on Enterprise Networks
 - Sm Hasan, Stanislava Soro, David Davenport and Matthew Pekarske. Multi Frequency Protocol with Adaptive Frequency Hopping for Reliable Wireless Patient Monitoring
 - Nachiket Tapas, Giovanni Merlino, Francesco Longo and Antonio Puliafito. Blockchain-based Publicly Verifiable Cloud Storage
 - Urjaswala Vora, Peeyush Chomal and Avani Vakharwala. Precept-Based Framework for Using Crowdsourcing in IoT-based Systems
- Demo, Work-in-Progress, PhD, and hot-topic panel sessions complete this year's technical program

IEEE SMARTCOMP 2019 also features four workshops that will be held on June 12:

- BITS 2019: Third IEEE Workshop on Big Data and IoT Security in Smart Computing
- DAIS 2019: First IEEE Workshop on Distributed Analytics Infrastructure and Algorithms for Multi-Organization Federations
- SmartSys 2019: Fourth IEEE Workshop on Smart Service Systems
- SSC 2019: Fifth IEEE Workshop on Sensors and Smart Cities
- SmartStudents 2019: First IEEE Students' Workshop on Smart Computing

The conference also provides a high quality social events program, including a welcome reception and a gala dinner on cruise.

This year SMARTCOMP will take place at the Residence Inn by Marriott Arlington Pentagon City, conveniently located close to the main landmarks of the U.S. Capital.

Detailed Program: <http://www.smart-comp.org/technical-program.html>

Registration: <http://www.smart-comp.org/registration.html>

We look forward to seeing you in Washington D.C.!

For any additional information feel free to contact the General Chairs at gangopad <at> [umbc.edu](mailto:gangopad@umbc.edu) and apuliafita <at> [unime.it](mailto:apuliafita@unime.it)

TOPICS:

- Future Smart Computing Paradigms
- Models of Smart Environments
- Algorithms for Smart Computing
- AI and Machine Learning in Smart Computing
- Edge computing platforms and algorithms
- Security, Privacy, and Economics in Smart Environments
- Cyber-physical System Platforms for Smart Environments
- Middleware Platforms for Smart Environments
- Mobile and Ubiquitous Platforms for Smart Environments
- Smart Precision Agriculture
- Smart Transportation
- Smart FinTech
- Smart Food-Energy-Water Nexus/Life-cycle analysis
- Smart Health
- Smart Communities
- Smart Human Environments, Entertainment, and Social Activities
- Smart Energy Management and Analytics

IMPORTANT DATES

- Paper Registration Deadline: ~~14 January 2019~~ **28 January 2019**
- Paper Submission Deadline: ~~28 January 2019~~ **11 February 2019**
- Acceptance Notification: 29 March 2019
- Camera Ready Deadline: 28 April 2019

ORGANIZING COMMITTEE:

- **General Chairs**
 - Aryya Gangopadhyay (UMBC)
 - Antonio Puliafita (U. Messina)
- **TPC Chairs:**
 - Raghu Ganti (IBM Watson)

- Julie McCann (Imperial College)

SMARTCOMP 2019 will include smart computing innovations pertaining to pervasive/ubiquitous computing, cloud computing, sensor networks, internet of things, big data analytics, security and privacy, social computing, cognitive computing, cyber-physical systems and their application and validation within smart computing environments. We invite high quality submissions in these topics. All submitted papers will be subject to peer reviews by Technical Program Committee members and other experts in the field. All presented papers will be published in the conference proceedings and submitted to the IEEE Xplore Digital Library.

Event Details

Location: Washington, DC

[Sync this event to your calendar](#)



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