

# IEEE PCom 2020

## The 18th IEEE Int'l Conference on Pervasive Intelligence and Computing

June 22 - 26, 2020, Calgary, Canada

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### IMPORTANT DATES

**Regular Paper Submission Due:** March 10, 2020  
**Wksp/SS/Poster Paper Due:** April 02, 2020  
**Authors Notification:** April 20, 2020  
**Camera-ready Submission:** May 31, 2020

### Computational Intelligence for Pervasive Systems

Over the last fifty years, computational intelligence has evolved from artificial intelligence, nature-inspired computing, and social-oriented technology to cyber-physical integrated ubiquitous intelligence towards Pervasive Intelligence (PI). The IEEE International Conference on Pervasive Intelligence and Computing is intended to cover all kinds of these intelligent paradigms as well as their applications in various pervasive computing domains.

PCom-2020 is the conference on Pervasive Intelligence and Computing, previously held as PCC (Las Vegas, USA, 2003 and 2004), PSC (Las Vegas, USA, 2005), PCAC (Vienna, Austria, 2006, and Niagara Falls, Canada, 2007), IPC-2007 (Jeju, Korea, December 2007), IPC-2008 (Sydney, Australia, December 2008), and since 2009 as the name PCom. It aims to bring together computer scientists and engineers, to discuss and exchange experimental and theoretical results, work-in-progress, novel designs, and test-environments or testbeds in the important areas of Pervasive Intelligence and Computing.

### IEEE PCom 2020 Tracks and Topics

#### Track 1: Computational Intelligence and Cognitive Computing

- ✧ Deep Learning and Deep Computation
- ✧ Brain-/Nature-inspired Computing
- ✧ Machine Learning and Big/Smart Data
- ✧ Agent-based Computing and DAI
- ✧ Crowdsourcing and Cognitive Computing
- ✧ Ubiquitous Data Mining and Fusion
- ✧ Intelligent Privacy, Security and Trust
- ✧ Context Modeling and Recognition

#### Track 2: Intelligent Networks, Middleware and Applications

- ✧ Intelligent Networking/SDN Technology
- ✧ Pervasive/Ubiquitous Intelligence
- ✧ Intelligent Cyber-Physical Systems
- ✧ Edge and Fog Computing
- ✧ Cloud of Things and Cloud of Sensors
- ✧ Middleware for Pervasive Computing
- ✧ Autonomous System Management
- ✧ Device/Thing Abstraction & Virtualization

#### Track 3: Pervasive Computing, Sensing and Services

- ✧ Crowdsourcing and Social Computing
- ✧ Pervasive Devices and RFIDs
- ✧ Embedded Hardware, Software & System
- ✧ Sensors and Sensor Networks
- ✧ Pervasive Service & Ubiquitous Intelligence
- ✧ HCI for Pervasive Computing
- ✧ Mobile/Wearable Computing
- ✧ Behavior Data Sensing and Cleansing
- ✧ Activity/Affect Detection and Recognition

#### Track 4: Smart Objects, Environments, Systems and Cities

- ✧ AI@Edge/@Fog/@Cloud/@Blockchain
- ✧ Smart Homes, Grids, Systems and Cities
- ✧ Smart Manufacturing (Industry 4.0)
- ✧ Smart Medicine and Healthcare
- ✧ Intelligent/Smart IoT
- ✧ Smart Agriculture and Aquaculture
- ✧ Smart/Intelligent Transportation
- ✧ Smart Learning and Education
- ✧ Smart Sensing, System and Service

### PCom 2020 Submissions and Publications

IEEE PCom 2020 Calls for original papers, posters, as well as workshop and special session proposals focusing on specific subjects related to pervasive and intelligent systems & applications.

All accepted conference, workshop, special session, and poster papers will be published by IEEE in Conference Proceedings (IEEE-DL and EI indexed). Selected high quality papers will be recommended to prestige journal special issues.

More information in the conference website: <http://cyber-science.org/2020/picom/>

### Three Co-located IEEE International Conferences

- ◆ The 18th IEEE Int'l Conf. on Dependable, Autonomic & Secure Computing (**DASC 2020**)
- ◆ The 5th IEEE Cyber Science and Technology Congress (**CyberSciTech 2020**)
- ◆ The 6th IEEE Int'l Conf. on Cloud and Big Data Computing (**CBDCom 2020**)

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