# IEEE CIC Pre-Conference Tutorials Day:
## Wednesday, Oct 17, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00am-5:30pm</td>
<td>Conference Registration</td>
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<td><em>(Conference Registration Desk outside Conference Lobby)</em></td>
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<tr>
<td>8:30-10:30am</td>
<td><strong>Tutorial 1:</strong> Dr. Mudhakar Srivatsa</td>
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<tr>
<td></td>
<td><em>Distinguished Research Staff Member and Manager at the Distributed AI department, IBM T. J. Watson Research Center, USA</em></td>
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<tr>
<td></td>
<td><strong>AI @ Edge</strong></td>
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<td><em>(University II + 12)</em></td>
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<tr>
<td>10:30 – 12:30 PM</td>
<td><strong>Tutorial 2:</strong> Dr. Nathalie Baracaldo</td>
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<tr>
<td></td>
<td><em>Research Staff Member, Ph.D., AI Platforms, IBM Almaden Research Center, USA</em></td>
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<tr>
<td></td>
<td><strong>Adversarial Machine Learning: Making AI Safer</strong></td>
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<tr>
<td></td>
<td><em>(University II + 12)</em></td>
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<tr>
<td>12:30 -1:00 PM</td>
<td>Lunch <em>(on your own)</em></td>
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<tr>
<td>1:30-3:30PM</td>
<td><strong>Tutorial 3:</strong> Dr. Massimo Villari</td>
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<td></td>
<td><em>Professor, Computer Science Department, University of Messina, Italy</em></td>
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<tr>
<td></td>
<td><strong>Harmonising Cloud, Edge and IoT: The Osmotic Computing Paradigm</strong></td>
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<td></td>
<td><em>Looking at simplified bio-techniques and models for managing complex analogous systems.</em></td>
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<td><em>(University II + 12)</em></td>
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<td>3:30 – 5:30PM</td>
<td><strong>Tutorial 4:</strong> Dr. Ashish Kundu</td>
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<td><em>Master Inventor, Research Staff Member, ACM Distinguished Member, ACM</em></td>
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<td><em>Distinguished Speaker</em></td>
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<td><em>IBM T. J. Watson Research Center, USA</em></td>
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<td></td>
<td><strong>Blockchain</strong></td>
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<td><em>(University II + 12)</em></td>
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# IEEE CIC Conference Day 1: Thursday, Oct 18, 2018

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8am-5:30pm</td>
<td>Conference Registration</td>
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<td><em>(Conference Registration Desk outside Conference Lobby)</em></td>
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<tr>
<td>7:30-8:30am</td>
<td>Informal Meet &amp; Greet – Breakfast</td>
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<td></td>
<td><em>(Benjamin Franklin Combined)</em></td>
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<tr>
<td>8:30-8:45am</td>
<td>Welcome, Conference Opening Remarks</td>
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<td></td>
<td><em>(Benjamin Franklin Combined)</em></td>
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<tr>
<td>8:45-9:45am</td>
<td><strong>Keynote 1:</strong> Susan B. Davidson</td>
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<td>Weiss Professor</td>
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<td></td>
<td>University of Pennsylvania, USA</td>
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<td></td>
<td><strong>Publication in The Era of Big Data and Open Source Software</strong></td>
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<td></td>
<td><em>(Benjamin Franklin Combined)</em></td>
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<tr>
<td>9:45-10am</td>
<td>Coffee Break <em>(Benjamin Franklin Combined)</em></td>
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<tr>
<td>10am-12noon</td>
<td><strong>Session 1</strong></td>
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<td></td>
<td><strong>Security &amp; Privacy 1</strong></td>
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<tr>
<td></td>
<td><em>(University 11)</em></td>
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<td></td>
<td>Chair: Nathalie Baracaldo, IBM Almaden</td>
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<tr>
<td>10am-12noon</td>
<td><strong>Session 2</strong></td>
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<td><strong>Social Networks / Recommender Systems</strong></td>
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<td></td>
<td><em>(University 12)</em></td>
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<td></td>
<td>Chair: Latifur Khan, University of Texas, Dallas</td>
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<tr>
<td>10am-12noon</td>
<td><strong>TeC4C Workshop I</strong></td>
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<td><em>(Benjamin Franklin 3)</em></td>
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<td></td>
<td>Chair: Massimo Villari, Università degli Studi di Messina</td>
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<tr>
<td>12:00am-1:00pm</td>
<td>Lunch*(Benjamin Franklin Combined)*</td>
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<td>1:00pm-2:00pm</td>
<td><strong>Keynote 2:</strong> Arjmand Samuel</td>
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<td>Principal Program Manager, Microsoft Azure IoT, Microsoft, USA</td>
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<td></td>
<td><strong>Edge Computing – Bringing The Cloud Closer To The Edge</strong></td>
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<td><em>(Benjamin Franklin Combined)</em></td>
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<tr>
<td>2:00-3:30pm</td>
<td><strong>Session 3</strong></td>
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<td></td>
<td><strong>Cloud / Networking</strong></td>
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<td></td>
<td><em>(University 11)</em></td>
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<td></td>
<td>Chair: Ashish Kundu, IBM TJ Watson</td>
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<tr>
<td>2:00-3:30pm</td>
<td><strong>Session 4</strong></td>
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<td><strong>Application I</strong></td>
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<td><em>(University 12)</em></td>
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<td></td>
<td>Chair: Mudhakar Srivasta, IBM TJ Watson</td>
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<tr>
<td>2:00-3:30pm</td>
<td><strong>TeC4C Workshop II</strong></td>
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<td><em>(Benjamin Franklin 3)</em></td>
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<td>Chair: Michela Paolucci, Università degli Studi di Firenze</td>
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<tr>
<td>3:30pm-3:45pm</td>
<td>Coffee Break <em>(Benjamin Franklin Combined)</em></td>
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<td>3:45-5:15pm</td>
<td><strong>Session 5</strong></td>
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<td><strong>Vision I</strong></td>
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<td><em>(Benjamin Franklin Combined)</em></td>
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<td>Chair: James Joshi, University of Pittsburgh</td>
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<td>6:30 pm Onwards</td>
<td>Reception</td>
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# IEEE CIC Conference Day 2: Friday, Oct 19, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 8am-5:30pm    | Conference Registration  
                (*Conference Registration Desk at Conference Lobby*) |
| 7:30-8:30am   | Informal Meet & Greet – Breakfast  
                (*Benjamin Franklin Combined*) |
| 8:45-9:45am   | **Keynote 3:**  
                **Lixia Zhang**  
                *Jonathan B. Postel Professor,*  
                *University of California, Los Angeles, CA, USA*  
                Enabling Pervasive Collaboration from the Ground Up  
                (*Benjamin Franklin Combined*) |
| 9:45–10am     | Coffee Break (*Benjamin Franklin Combined*) |
| 10am-12noon   |  
                **Session 6: Security / Privacy II**  
                (*University 11*)  
                **Chair:** Barbara Carminati,  
                University of Insubria  
                
                **Session 7: Invited Papers**  
                (*University 12*)  
                **Chair:** Jaideep Vaidya,  
                Rutgers University  
                
                **ECiSeH Workshop I**  
                (*Benjamin Franklin 3*)  
                **Chair:** Massimo Villari,  
                Università degli Studi di Messina |
| 12noon – 1:00pm | Lunch (*Benjamin Franklin Combined*) |
| 1:00 – 2:00   |  
                **Keynote 4:**  
                **Anupam Joshi**  
                *Director, UMBC Center for Cybersecurity,*  
                *Oros Family Professor and Chair,*  
                *University of Maryland, Baltimore County, MD, USA*  
                CyberAllIntel: Extracting cybersecurity information from text  
                (*Benjamin Franklin Combined*) |
| 2:00 – 3:30   |  
                **Session 8: Collaboration**  
                (*University 11*)  
                **Chair:** Christopher Yang,  
                Drexel University  
                
                **Session 9: Application II**  
                (*University 12*)  
                **Chair:** Taieb Znati, University of Pittsburgh  
                
                **ECiSeH Workshop II**  
                (*Benjamin Franklin 3*)  
                **Chair:** Massimo Villari,  
                Università degli Studi di Messina |
| 3:30-3:45     | Coffee Break (*Benjamin Franklin Combined*) |
| 3:45-5:15pm   |  
                **Session 10: Vision II**  
                (*Benjamin Franklin Combined*)  
                **Chair:** Valerie Issarny, Inria |
| 6:30-9:30pm   | Banquet/Social Dinner & Awards Ceremony  
                (*Benjamin Franklin Combined*) |
## IEEE CIC Conference Day 3: Saturday, Oct 20, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 8am - 5pm     | Conference Registration  
 *(Conference Registration Desk at Conference Lobby)*  |
| 7:30 - 8:30am | Informal Meet & Greet – Breakfast  
 *(Benjamin Franklin Combined)*  |
| 8:45 - 9:45am | **Keynote 5:** Aameek Singh  
 *Vice President of Engineering,  
 IBM T. J. Watson, US*  
 **Reinventing Businesses with AI**  
 *(Benjamin Franklin Combined)*  |
| 9:45 – 10:45am| **Session 11**  
 **Vision III**  
 *(Benjamin Franklin Combined)*  
 **Chair:** Elisa Bertino, Purdue University  |
| 10:45 – 11am  | Coffee Break  
 *(Benjamin Franklin Combined)*  |
| 11am – 1:00pm | **Session 12**  
 **Application III**  
 *(University 11)*  
 **Chair:** Jia Zhang, Carnegie Mellon University  |
|               | **Session 13**  
 **Industry/Government**  
 *(University 12)*  
 **Chair:** Bharat Rawal, Penn State University, Abington  |
|               | **ISCBD + I-CAPCHA Workshop**  
 **Chair:** Karuna P Joshi, University of Maryland, Baltimore County  
 *(Benjamin Franklin 3)*  |
| 1:00pm – 2:00pm| **Lunch & Closing:** TBC  
 *(Benjamin Franklin Combined)*  |

<<Scroll down to see the session details>>
Session 1: Security and Privacy - I

Chair: Nathalie Baracaldo
10:00 A.M. – Noon, University11

➢ AutoBotCatcher: Blockchain-based P2P Botnet Detection for the Internet of Things
  Gokhan Sagirlar, Barbara Carminati and Elena Ferrari (University of Insubria)
➢ Blockchain-based PKI solutions for IoT
  Ankush Singla and Elisa Bertino (Purdue University)
  Haroon Rashid and Pushpendra Singh (IIIT Delhi)
➢ Securing Mobile Data Collectors by Integrating Software Attestation and Encrypted Data Repositories
  Jongho Won and Elisa Bertino (Purdue University)

Session 2: Social Networks & Recommender Systems

Chair: Latifur Khan
10:00 A.M. – Noon, University12

➢ Link-Sign Prediction in Dynamic Signed Directed Social Networks
  Quang-Vinh Dang and Claudia-Lavinia Ignat (Universite de Lorraine)
➢ Mining the Best Observational Window to Model Social Phenomena
  Chao Yan (Vanderbilt University), Zhijun Yin (Vanderbilt University), Stanley Xiang (Vanderbilt University), You Chen (Vanderbilt University), Yevgeniy Vorobeychik (Washington University in St. Louis), Daniel Fabbri (Vanderbilt University), Abel Kho (Northwestern University), David Liebovitz (University of Chicago) and Bradley Malin (Vanderbilt University)
➢ Investigating Aspects of Platform Growth on Crowdsource Driven Recommendation Services
  Julian Jarrett and M Brian Blake (Drexel University)

Session 3: Cloud/Networking

Chair: Ashish Kundu
2:00 P.M. – 3:30 P.M., University11

➢ Parallel Schedule of Live Migrations for Virtual Machine Placements
  M P Gilesh (Government Engineering College Wayanad), Sanjay Satheesh (National Institute of Technology Calicut), Athul Chandran (National Institute of Technology Calicut), S D Madhu Kumar (National Institute of Technology Calicut) and Lillykutty Jacob (National Institute of Technology Calicut)
➢ Link-Quality and Traffic-Load Aware Routing for UAV Ad Hoc Networks
  Cong Pu (Marshall University)
➢ Automatic Feedback Control for Graceful Degradation of Real-Time Services in the Face of an Attack
  Jagannadh Vempati and Ram Dantu (University of North Texas)

Session 4: Application - I

Chair: Mudhakar Srivasta
2:00 P.M. – 3:30 P.M., University12
A Decentralized Marketplace Application on The Ethereum Blockchain
Ranganthan Vishnu Prasad, Ram Dantu, Aditya Paul, Paula Mears and Kirill Morozov (University of North Texas)

A QoS framework for SDN-based Networks
Haitham Ghalwash and Chun-Hsi Huang (University of Connecticut)

Lightweight Web Services Migration Framework in Hybrid Clouds
Saadaoui Alaeddine and Stephen L. Scott (Tennessee Technological University)

Session 5: Vision-I
Chair: James Joshi
3:45 P.M. – 5:15 P.M., Benjamin Franklin Combined

Towards modernizing the Future of American Voting
LeRoy Carr III, Anthony Newtson, James Joshi (University of Pittsburgh) Invited

Collaborative and Accountable Hardware Governance using Blockchain
Ashish Kundu, Zehra Sura and Upendra Sharma (IBM T J Watson Research Center)

Blockchain as a Platform for Secure Inter-Organizational Business Processes
Barbara Carminati, Elena Ferrari and Christian Rondanini (University of Insubria)

Session 6: Security and Privacy-II
Chair: Barbara Carminati
10:00 A.M. – 12:00 P.M., University 11

RIPA: Real-time Image Privacy Alert System
Dakshak Keerthi Chandra (Missouri University of Science and Technology), Weerdhawal Chowgule (Missouri University of Science and Technology), Yanjie Fu (Missouri University of Science and Technology) and Dan Lin (University of Missouri)

Detection of Temporal Data Exfiltration Threats to Relational Databases
Asmaa Sallam and Elisa Bertino (Purdue University)

Prunable Authenticated Log and Authenticable Snapshot in Distributed Collaborative Systems
Victorien Elvinger, Gerald Oster and Francois Charoy (Universite ’de Lorraine)

Daniel Petrov and Taieb Znati (University of Pittsburgh)

Session 7: Invited Papers
Chair: Jaideep Vaidya
10:00 A.M. – 12 P.M., University 12

Alcatraz: Data Exfiltration-Resilient Corporate Network Architecture
Daniele E. Asoni (ETH Zürich), Takayuki Sasaki (NEC Corporation), Adrian Perrig (ETH Zürich)

Supporting Virtual Organizations Using Attribute-Based Encryption in Named Data Networking
Craig A. Lee (Aerospace Corporation), Zhiyi Zhang (University of California, Los Angeles), Yukai Tu (University of California, Los Angeles), Alex Afanasyev (Florida International University), Lixia Zhang (University of California, Los Angeles)

The Impact of Malicious Accounts on Political Tweet Sentiment
Session 8: Collaboration

Chair: Christopher Yang
2:00 P.M. – 3:30 P.M., University 11

➢ Facilitating Data-Centric Recommendation in Knowledge Graph
   Jia Zhang (Carnegie Mellon University), Maryam Pourreza (Carnegie Mellon University), Rahul Ramachandran (NASA/MSFC), Tsengdar J. Lee (NASA Headquarters), Patrick Gatlin (NASA/MSFC), Manil Maskey (NASA/MSFC), Amanda Marie Weigel (University of Alabama Huntsville)

➢ New Algorithms and Methods for Collaborative Co-Editing Using HTML DOM Synchronization
   Cristian Gadea, Bogdan Ionescu and Dan Ionescu (University of Ottawa)

➢ A Teacher Dashboard for Real-time Intervention
   Sebastián Hernández (Universidad de Chile), Nelson Baloian (Universidad de Chile), José Pino (Universidad de Chile), Xiaojun (Jenny) Yuan (University at Albany)

Session 9: Application – II

Chair: Taieb Znati
2:00 P.M. – 3:30 P.M., University 12

➢ Automated Threat Report Classification Over Multi-Source Data
   Gbadebo Ayoade, Swarup Chandra, Latifur Khan, Kevin Hamlen and Bhavani Thuraisingham (University of Texas Dallas)

➢ Transfer Learning of Deep Neural Networks for Visual Collaborative Maritime Asset Identification
   Nicholas Warren (Texas State University), Benjamin Garrard (Texas State University), Elliot Staudt (Mayachitra) and Jelena Tesic (Texas State University)

➢ Smart Surveillance as an Edge Network Service: from Harr-Cascade, SVM to a Lightweight CNN
   Seyed Yahya Nikouei (Binghamton University), Yu Chen (Binghamton University), Sejun Song (University of Missouri), Ronghua Xu (Binghamton University), Back-Young Choi (University of Missouri), and Timothy R. Faughnan (Binghamton University),

Session 10: Vision-II

Chair: Valerie Issarny
3:45 P.M. – 5:15 P.M., Benjamin Franklin Combined

➢ Envisioning an Information Assurance and Performance Infrastructure for the Internet of Things.
   Jamie Payton, Xiaojiang Du, Xubin He and Jie Wu (Temple University) Invited

➢ MEDUSA: Malware Detection Using Statistical Analysis of System’s Behavior
   Muhammad Ejaz Ahmed (Data61 CSIRO), Surya Nepal (Data61 CSIRO) and Hyoungshick Kim (Sungkyunkwan University)

➢ Next Generation Trustworthy Fraud Detection
   Sihong Xie (Lehigh University) and Philip S. Yu (University of Illinois at Chicago)

Session 11: Vision – III
Chair: Elisa Bertino  
9:45 A.M. – 10:45 A.M., Benjamin Franklin Combined

➢ Storage Service Orchestration with Container Elasticity  
Amit Warke (Almaden Research Center, IBM Research & Georgia Institute of Technology), Mohamed Mohamed (Almaden Research Center, IBM Research), Robert Engel (Almaden Research Center, IBM Research), Heiko Ludwig (Almaden Research Center, IBM Research), Wayne Sawdon (Almaden Research Center, IBM Research) and Ling Liu (Georgia Institute of Technology)

Christopher C. Yang (Drexel University), Ou Stella Liang (Drexel University), Santiago Ontanon (Drexel University), Weimao Ke (Drexel University), Helen Leob (Children’s Hospital of Philadelphia), and Charlie Klauer (Virginia Tech Transportation Institute)

Session 12: Application – III
Chair: Jia Zhang  
11:00 A.M. – 1:00 P.M., University11

➢ Hybrid Machine-Crowd Approach for Fake News Detection  
Shaban Shabani (University of Basel) and Maria Sokhn (University of Applied Sciences Western Switzerland)

➢ Understanding the Determinants of Enterprise Social Network Use  
Gerald Stei and Alexander Rossmann (Reutlingen University)

Session 13: Industry/Government
Chair: Bharat Rawal  
11:00 A.M. – 1:00 P.M., University12

➢ ysla: Reusable and Configurable SLAs for Large-Scale SLA Management  
Robert Engel (Almaden Research Center, IBM Research), Shashank Rajamoni (Almaden Research Center, IBM Research), Bryant Chen (Almaden Research Center, IBM Research), Heiko Ludwig (Almaden Research Center, IBM Research) and Alexander Keller (Global Technology Services)

➢ Osmotic Collaborative Computing for Machine Learning and Cybersecurity Applications in Industrial IoT Networks and Cyber Physical Systems with Gaussian Mixture Models  
Emmanuel Oyekanlu (Drexel University)

➢ Fault-Tolerant Real-Time Collaborative Network Edge Analytics for Industrial IoT and Cyber Physical Systems with Communication Network Diversity  
Emmanuel Oyekanlu (Drexel University)

➢ Open Educational Resources Platform Based on Collective Intelligence  
Marcela Ribeiro de Oliveira, Israel Barreto Sant’Anna, Guilherme Scariot Ramos, Luis Carlos Erpen De Bona, Marcos Alexandre Castilho, Marcos Didonet Del Fabro and Eduardo Todt (Federal University of Paraná)

➢ Early detection of Cybersecurity Threats using Collaborative Cognition  
Sandeep Narayanan, Ashwinkumar Ganesan, Karuna Joshi, Tim Oates, Anupam Joshi and Tim Finin (University of Maryland)

TeC4C Workshop I (Day 1)
Chair: Massimo Villari
10:00 A.M. – 12:00 P.M., Benjamin Franklin 3

➢ Knowledge Modeling and Management for Mobility and Transport Applications
  Pierfrancesco Bellini, Stefano Bilotta, Daniele Cenni, Paolo Nesi, Michela Paolucci and Mirco Soderi
  (Università degli Studi di Firenze)

➢ Joint Cost Estimation Approach for Service Provider Legacy Network Migration to Unified
  Software Defined IPv6 Network
  Babu R Dawadi (Norwegian University of Science and Technology), Danda B Rawat (Howard
  University), Shashidhar R Joshi (Trivandrum University) and Martina M Keitsch (Norwegian
  University of Science and Technology)

➢ Urban pollution monitoring based on Mobile Crowd Sensing: an osmotic computing approach
  Antonella Longo (University of Salento), Andrea De Matteis (University of Salento) and Marco
  Zappatore (Hesplora srl)

➢ Auditing and Assessment of data traffic flows in an IoT Architecture
  Paolo Nesi, Gianni Pantaleo, Michela Paolucci and Imad Zaza (University of Florence)

TeC4C Workshop II (Day 1)
Chair: Michela Paolucci
2:00 P.M. – 3:30 P.M., Benjamin Franklin 3

➢ Designing a FIWARE Cloud Solution for Making your Travel Smoother: the FLIWARE Experience
  Lorenzo Carnevale, Antonino Galletta, Maria Fazio, Antonio Celesti and Massimo Villari (University
  of Messina)

➢ Intelligent Crime Anomaly Detection in Smart Cities using Deep Learning
  Sharmila Chackravarthy, Steven Schmitt and Li Yang (University of Tennessee at Chattanooga)

➢ Assessment of an IoT Platform for Data Collection and Analysis for Medical Sensors
  João Rei, Cláudia Brito and António Sousa (Universidade do Minho)

➢ A Method for Large-Scale Resource Allocation in Smart Cities
  Hadi Hajari and Hassan Ali Karimi (University of Pittsburgh)

ECISeH Workshop I (Day 2)
Chair: Massimo Villari
10:00 A.M. – 12:00 P.M., Benjamin Franklin 3

➢ Tapping into the Use of Social Media Applications for Harnessing the Citizens’ Collective
  Intelligence in the Strategic Digital City
  Carla Cavichiolo Flores, Denis Alcides Rezende and Luisa Aguilar Lopes (Universidade Catolica do
  Parana)

➢ Visual Analytics Ontology-guided I-DE system: A case study of Head and Neck Cancer in Australia
  Ahsan Morshed (Swinburne University of Technology), Abdur Rahim Mohammad Forkan
  (Swinburne University of Technology), Tejal Shah (Newcastle University), Prem Prakash Jayaraman
  (Swinburne University of Technology), Dimitrios Georgakopoulos (Swinburne University of
  Technology) and Rajiv Ranjan (Newcastle University)

➢ Using fuzzy Geoparticipation Methods to Optimize the Spatial Development Process in a Smart
  City
  Robert Olszewski and Agnieszka Turek (Warsaw University of Technology)

➢ A Multilayer Perceptron-Based Distributed Intrusion Detection System for Internet of Vehicles
Ayesha Anzer and Mourad Elhadef (*Abu Dhabi University*)

**ECISeH Workshop II (Day 2)**

**Chair:** Massimo Villari

2:00 A.M. – 3:00 P.M., *Benjamin Franklin 3*

  Alina Buzachis, Giuseppe Massimo Bernava, Mario Busà, Giovanni Pioggia and Massimo Villari

- **Train and Equip Firefighters with Cognitive Virtual and Augmented Reality**
  Li Yang (*University of Tennessee at Chattanooga*), Yu Liang (*University of Tennessee at Chattanooga*), Dalei Wu (*University of Tennessee at Chattanooga*) and Jim Gault (*Red Bank Fire Department*)

**ISCBD + I-CAPCHA Workshop (Day 3)**

**Chair:** Karuna P Joshi

11:00 A.M. – 1:00 P.M., *Benjamin Franklin 3*

- **Semantically Rich, Context Aware Access Control for Openstack**
  Vishal Rathod, Sandeep Nair Narayanan, Sudip Mittal and Anupam Joshi (*University of Maryland*)

- **Cold-Start User-Based Weighted Collaborative Filtering for an Implicit Recommender System for Research Facilities**
  Yogesh Kale (*North Carolina A&T State University*), Samantha E. Petrie (*University of North Carolina at Chapel Hill*), Marvan Bikdash (*North Carolina A&T State University*) and Michael D. Topal (*University of North Carolina at Chapel Hill*)

- **Multi-Stakeholder Consensus Decision-Making Framework Based on Trust: A Generic Framework**
  Lina Alfantoukh, Yefeng Ruan and Arjan Durresi (*Indiana University Purdue University Indianapolis*)

- **Analyzing CDR/IPDR data to find People Network from Encrypted Messaging Services**
  Adya V. Joshi (*Howard High School*), Madan Oberoi (Special Commisssioner of Police Special Cell and Technology Cell), Ranjan Bose (*Indian Institute of Technology Delhi*)