



[Conference](#) »Program

[2022 IEEE International Conference on Smart Computing \(SMARTCOMP 2022\) Program](#)

Tuesday, June 21

Tuesday, June 21 10:30 - 11:45 (Europe/Helsinki)

S1: Machine Learning for Smart Computing

10:30 Knowledge Infusion for Context-Aware Sensor-Based Human Activity Recognition

[Luca Arrotta](#) and [Gabriele Civitarese](#) (University of Milan, Italy); [Claudio Bettini](#) (Università degli Studi di Milano, Italy)

10:50 CoDEm: Conditional Domain Embeddings for Scalable Human Activity Recognition

[Abu Zaher Md Faridee](#), [Avijoy Chakma](#), [Zahid Hasan](#) and [Nirmalya Roy](#) (University of Maryland Baltimore County, USA); [Archan Misra](#) (Singapore Management University, Singapore)

11:10 Generalised Zero-shot Learning for Entailment-based Text Classification with External Knowledge

[Yuqi Wang](#), [Wei Wang](#), [Qi Chen](#) and [Kaizhu Huang](#) (Xi'an Jiaotong Liverpool University, China); [Anh Nguyen](#) (University of Liverpool, United Kingdom (Great Britain)); [Suparna De](#) (University of Surrey, United Kingdom (Great Britain))

11:30 AmicroN: Framework for Generating Micro-Activity Annotations for Human Activity Recognition

[Soumyajit Chatterjee](#) and [Bivas Mitra](#) (IIT Kharagpur, India); [Sandip Chakraborty](#) (Indian Institute of Technology Kharagpur, India)

Tuesday, June 21 13:30 - 14:45 (Europe/Helsinki)

S2: Smart City Applications

13:30 CitySpec: An Intelligent Assistant System for Requirement Specification in Smart Cities

[Zirong Chen](#) (Vanderbilt University, USA); [Isaac Li](#) (University of Virginia, USA); [Haoliang Zhang](#) (Columbia University, USA); [Sarah Preum](#) (Dartmouth College, USA); [John Stankovic](#) (University of Virginia, USA); [Meiyi Ma](#) (Vanderbilt University, USA)

13:50 *Smart Edge-Enabled Traffic Light Control: Improving Reward-Communication Trade-off with Federated Reinforcement Learning*

[Nathaniel Hudson](#) (University of Kentucky, USA); [Pratham Oza](#) (Virginia Tech, USA); [Hana Khamfroush](#) (University of Kentucky, USA); [Thidapat Chantem](#) (Virginia Tech, USA)

14:10 *SmartWaterSens: A Crowdsensing-based Approach to Groundwater Contamination Estimation*

[Lanyu Shang](#) (University of Illinois at Urbana-Champaign, USA); [Yang Zhang](#) (University of Notre Dame, USA); [Quanhui Ye, Na Wei](#) and [Dong Wang](#) (University of Illinois at Urbana-Champaign, USA)

14:30 *Neural Architecture and Feature Search for Predicting the Ridership of Public Transportation Routes*

[Afiya Ayman](#) (University of Houston, USA); [Juan Martinez](#) (Vanderbilt University, USA); [Philip Pugliese](#) (Chattanooga Area Regional Transportation Authority, USA); [Abhishek Dubey](#) (Vanderbilt University, USA); [Aron Laszka](#) (University of Houston, USA)

Wednesday, June 22

Wednesday, June 22 13:00 - 14:15 (Europe/Helsinki)

S3: Smart Computing at the Edge

13:00 *Stateless or stateful FaaS? I'll take both!*

[Carlo Puliafito](#) (University of Pisa, Italy); [Claudio Cicconetti](#) and [Marco Conti](#) (IIT-CNR, Italy); [Enzo Mingozzi](#) (University of Pisa, Italy); [Andrea Passarella](#) (IIT-CNR, Italy)

13:20 *Chimera: Context-Aware Splittable Deep Multitasking Models for Edge Intelligence*

[Sumaiya Tabassum Nimi](#) and [Md Adnan Arefeen](#) (University of Missouri Kansas City, USA); [Md Yusuf Sarwar Uddin](#) (University of Missouri-Kansas City, USA); [Biplob Debnath](#) (NEC Labs America, USA); [Srimat Chakradhar](#) (NEC Research Labs, USA)

13:40 Scheduling Continuous Operators for IoT Edge Analytics with Time Constraints

[Patient Ntumba wa Ntumba](#) and [Nikolaos Georgantas](#) (INRIA, France); [Vassilis Christophides](#) (ENSEA, France)

14:00 Federated Continual Learning through distillation in pervasive computing

[Anastasiia Usmanova](#) (UGA, France); [François Portet](#) (Laboratory LIG, UMR CNRS/INPG/UJF 5217, Team GETALP, France); [Philippe Lalanda](#) (Grenoble University, France); [German Vega](#) (LIG, France)

Wednesday, June 22 16:00 - 16:40 (Europe/Helsinki)

S4: Smart Health**16:00 RhythmEdge: Enabling Contactless Heart Rate Estimation on the Edge**

[Zahid Hasan](#), [Nirmalya Roy](#) and [Sreenivasan Ramasamy Ramamurthy](#) (University of Maryland Baltimore County, USA); [Emon Dey](#) (University of Maryland, Baltimore County, USA); [Archan Misra](#) (Singapore Management University, Singapore)

16:20 L3-Net Deep Audio Embeddings to Improve COVID-19 Detection from Smartphone Data

[Mattia G Campana](#) (IIT-CNR, Italy); [Andrea Rovati](#) (University of Milano, Italy); [Franca Delmastro](#) (IIT-CNR, Italy); [Elena Pagani](#) (Università degli Studi di Milano & Institute of Informatics and Telematics - National Research Council, Italy)

Wednesday, June 22 16:40 - 17:20 (Europe/Helsinki)

S5: Security & Privacy**16:40 Look-Up Table based FHE System for Privacy Preserving Anomaly Detection in Smart Grids**

[Ruixiao Li](#) (Waseda University, Japan); [Shameek Bhattacharjee](#) (Western Michigan University, USA); [Sajal K. Das](#) (Missouri University of Science and Technology, USA); [Hayato Yamana](#) (Waseda University, Japan)

17:00 Bringing Energy into Utility-Privacy Tradeoff in IoT

[Henrique Potter](#), [Daniel Mosse](#) and [Stephen Lee](#) (University of Pittsburgh, USA)

Thursday, June 23

Thursday, June 23 14:00 - 15:00 (Europe/Helsinki)

S6: Emerging Topics in Smart Computing

14:00 *Resource Allocation in Quantum Networks for Distributed Quantum Computing*

[Claudio Cicconetti](#), [Marco Conti](#) and [Andrea Passarella](#) (IIT-CNR, Italy)

14:20 *Human Experiences in Teaching Robots: Understanding Agent Expressivity and Learning Effects through a Virtual Robot Arm*

[Aviv Elor](#) (University of California - Santa Cruz, USA); [Sri Kurniawan](#) (UC Santa Cruz, USA); [Leila Takayama](#) (University of California, Santa Cruz, USA)

14:40 *Wireless Crowd Charging with Battery Aging Mitigation*

[Tamoghna Ojha](#), [Theofanis P. Raptis](#), [Marco Conti](#) and [Andrea Passarella](#) (IIT-CNR, Italy)

EDAS at delta for 2a00:1620:c0:60:80ff:d425:2ddb:703d (Tue, 24 May 2022 17:18:52 +0200 CEST) [User 194198 using macOS:Chrome 101.0.0.178/1.236 s] [Request help](#)