

PerCom 2025 Full Program

Monday, March 17

07:30 – 08:30 Registration (Room 151 A/B Foyer); Coffee (Room 150 A/B)

08:30 – 10:00 Workshops + Tutorials

PerConAI: 8:30 am – 5:00 pm, Full Day: Room 151 A

PerFail: 8:30 am – 5:00 pm, Full Day: Room 151 B

TELMED: 8:30 am – 5:00 pm, Full Day: Room 152 A

SPT-IoT: 8:30 am – 5:00 pm, Full Day: Room 152 B

CoMoRea: 8:30 am – 12:00, Half Day / **CARD:** 1:30 – 5:00 pm, Half Day: Room 154 B

HCCS: 8:30 am – 12:00, Half Day / **I-trust-U** 1:30 – 5:00 pm, Half Day: Room 149 A

Tutorial: From Automation to Orchestration: The New Frontiers of Network Softwarization

Chair: Georgios Bouloukakis, Télécom SudParis / IP Paris, France

Speakers: Gianluca Davoli, Domenico Scotece, Luca Foschini and Walter Cerroni

9:00 am – 12:00 pm, Room 147 A

10:00 – 10:30 Coffee Break (Room 150 A/B)

10:30 – 12:00 Workshops + Tutorials

12:00 – 13:30 Lunch Break (Room 150 A/B)

1:30 – 3:00 Workshops + Tutorials

PhD Forum Mentoring Session: 1:30 to 3:00 pm and 3:30 - 5:00 pm, Room 154 A

Tutorial: From Smart Sensing to Smart Living: The Era of IoT, AI/ML and Data Science

Chair: Roberto Yus, University of Maryland, Baltimore County, USA

Speaker: Sajal Das, 2:00 pm – 5:00 pm, Room 147 B

3:00 – 3:30 Coffee Break (Room 150 A/B)

3:30 – 5:00 Workshops + Tutorials

Tuesday, March 18

07:30 – 08:30 Registration (Room 151 A/B Foyer); Coffee (Room 150 A/B)

08:30 – 09:00 Opening Ceremony (Room 151 A/B)

09:00 – 10:00 Keynote 1 (Room 151 A/B)

Title: Exploring New Frontiers for Pervasive Wireless

Swarun Kumar, Carnegie Mellon University, USA

Chair: Sajal K. Das, Missouri University of Science and Technology, USA

10:00 – 10:30 Coffee Break (Room 150 A/B)

10:30 – 12:00 Session 1: **Human Activity Recognition and Sensing** (Room 151 A/B)

Chair: Sandip Chakraborty, Indian Institute of Technology, Kharagpur

- Stefan Gerd Fritsch, Cennet Oguz, Vitor Fortes Rey, Lala Ray, Maximilian Kiefer-Emmanouilidis and Paul Lukowicz **MuJo: Multimodal Joint Feature Space Learning for Human Activity Recognition – FULL**
- Yiqing Zhang and Takuya Maekawa **InterHandNet: Capturing Two-hand Interaction for Robust Hand-washing Activity Recognition – FULL**
- Anlan Yu, Xuanzhi Wang, Pei Wang, Jinkun Li, Xujun Ma, Zhiqing Hong, Haotian Wang, Yi Ding and Daqing Zhang **FineSat: Enhancing GNSS Signals for High-precision Sensing – FULL**

12:00 – 13:30 Lunch Break (Room 150 A/B)

12:00 – 13:30 Women@PerCom (Room 147)

13:30 – 15:00 Session 2: **Smart Environments & Devices** (Room 151 A/B)

Chair: Dong Li, University of Maryland, Baltimore County

- Manoj Lenka and Ayon Chakraborty **EcoVis: Towards Energy and Connectivity Optimized Visual Surveillance – FULL**
- Christian Badolato, Kaur Kullman, Nikolaos Papadakis, Manav Bhatt, Georgios Bouloukakis, Don Engel and Roberto Yus **Your Smart Home Exchanged 3M Messages: Defining and Analyzing Smart Device Passive Mode – FULL**
- Qianru Liao, Jinyu Lin, Yongzhi Huang, Zijun Gong and Kaishun Wu **CamFirm: A pair of headphones could guide you to the spy camera – FULL**

15:00 – 15:30 Teaser Madness (Room 151 A/B)

PhD Forum & Demo Teaser Madness Chairs:

PhD Forum Chairs: Kasthuri Jayarajah, New Jersey Institute of Technology, USA and Shahriar Nirjon, University of North Carolina at Chapel Hill, USA

Demo Chairs: Simone Silvestri, University of Kentucky, USA and Fenglong Ma, Pennsylvania State University, USA

15:30 – 18:30 Welcome Reception – PhD Poster & Demos with Poster (Room 152 A/B)

Phd Forum: Session Chairs: Kasthuri Jayarajah (NJIT, USA) & Shahriar Nirjon (UNC Chapel Hill, USA)

F1: Large Language Models as a Cyber Threat: Towards Countering LLM-based Spam Attacks
Malte Josten (University of Duisburg-Essen)

F2: AI-Driven Distributed Adaptive Security in 6G Networks for Digital Healthcare
Ijaz Ahmad (University of Oulu), Ijaz Ahmad (VTT Technical Research Centre of Finland), Erkki Harjula (University of Oulu)

F3: Exploring Real-Life Psychophysiological States with Self-Supervised Learning
Dominika Kunc (Wrocław University of Science and Technology)

F4: Tiny Neural Networks for Tiny IoT Devices Large Language Models for Human Activity Recognition in Smart-Home
Alberto Ancilotto (Fondazione Bruno Kessler), Elisabetta Farella (Fondazione Bruno Kessler)

F5: Large Language Models for Human Activity Recognition in Smart-Home
Michele Fiori (University of Milan)

F6: A Defense-in-Depth Framework for IoT/CPS Ransomware Protection
Farhad Mofidi (University of Colorado)

F7: XTRTimeS — eXplainable Transformer for Robust Time Series Forecasting
Malte Singerhoff (University of Duisburg-Essen)

F8: Enabling Meaningful Communication Through Personalization
Matthew Clark (University of Virginia)

F9: PPG-to-ECG Signal Translation Using Wearable Data in Affective Computing Joanna Komoszyńska (Wrocław University of Science and Technology)

F10: LLM as Personable Decision-Making Model for Smart Home Simulation Haruki Yonekura (Osaka University), Hirozumi Yamaguchi (Osaka University)

F11: Hardware-Aware Neural Architecture Search with Mixed-Precision Quantization Natalie Maman (University Duisburg Essen)

Demos with Posters:

Demo Chairs: Simone Silvestri, University of Kentucky, USA and Fenglong Ma, Pennsylvania State University, USA

D1: HarmonicThreads – An Interface that Supports Accessibility in Musical Interaction. Ellie Nguyen (Chapman University, United States), Miyuki Weldon (Chapman University, United States) and Franceli Cibrian (Chapman University, United States).

D2: Learning Ball Juggling in Mixed Reality with Haptic Feedback. Volodymyr Bondarenko (Dresden Technical University, Germany), Hans Winger (Dresden Technical University, Germany), Robert Rosenkranz (Dresden Technical University, Germany), Ercan Altinsoy (Dresden Technical University, Germany), Giang Nguyen (Dresden Technical University, Germany) and Frank Fitzek (Dresden Technical University, Germany).

D3: U-FLOC: Underwater Fresnel Lens based Optical Communication System. Qiwei Wang (Dalian University of Technology, China), Chi Lin (Dalian University of Technology, China), Qing Zhang (Dalian University of Technology, China), Yu Zhang (Dalian University of Technology, China), Xin Fan (Dalian University of Technology, China) and Zhongxuan Luo (Dalian University of Technology, China).

D4: DanZens: A Toolkit for Sensing, Labeling and Visualizing Dance Movements. Yanelly Mego (Fowler School of Engineering, Chapman University, United States), Concepción Valdez (Department of Computer Science, CICESE, Mexico), Hector M. Camarillo-Abad (Computer Science, Occidental College, United States) and Franceli L. Cibrian (Fowler School of Engineering, Chapman University, United States).

D5: ScooterLab: A Programmable and Participatory Sensing Research Testbed using Micromobility Vehicles. Ubaidullah Khan (University of Texas at San Antonio, United States), Raveen Wijewickrama (University of Texas at San Antonio, United States), Buddhi Ashan M.K. (University of Texas at San Antonio, United States), A.H.M Nazmus Sakib (University of Texas at San Antonio, United States), Khoi Trinh (University of Oklahoma, United States), Christina Duthie (University of Texas at San Antonio, United States), Nima Najafian (University of Oklahoma, United States), Ahmer Patel (University of Texas at San Antonio, United States), R.N. Molina (University of

Texas at San Antonio, United States), Anindya Maiti (University of Oklahoma, United States), Sushil K. Prasad (University of Texas at San Antonio, United States), Greg P. Griffin (Oregon Department of Transportation, United States) and Murtuza Jadliwala (University of Texas at San Antonio, United States).

D6: iCrop+: An Edge-boosted Crop Disease Detection System via TinyML and LoRa Communication.

Xu Tao (University of Kentucky, United States), Jackson Butcher (University of Kentucky, United States), Simone Silvestri (University of Kentucky, United States) and Sajal K Das (Missouri University of Science and Technology, United States).

D7: DeePet: A Deep Learning Based Pet Comforting and Feeding System Using Internet of Things Technologies.

Lien-Wu Chen (Feng Chia University, Taiwan) and Ming-Yuan Wu (Feng Chia University, Taiwan).

D8: Ambient Intelligence-Based Continuous Authentication: A Testbed Implementation.

Ashish Nanda (Deakin University, Australia), Robin Doss (Deakin University, Australia), Adnan Anwar (Deakin University, Australia), Haftu Reda (Deakin University, Australia), Zubair Baig (Deakin University, Australia), Frank Jiang (Deakin University, Australia), Praveen Gauravaram (Tata Consulting Services, Australia), Debi Prasad Pati (Tata Consulting Services, India), Salil Kanhere (University of New South Wales, Australia) and Mohan Baruwala Chhetri (Data61, Australia).

D9: Low-Cost Sensor-based Error Detection System for Coffee Preparation: A Demonstration.

Florian Wagner (University of Greifswald, Germany), Teodor Stoev (University of Greifswald, Germany) and Kristina Yordanova (University of Greifswald, Germany).

D10: BL(u)E CRAB: A User-Centric Framework for Identifying Suspicious Bluetooth Trackers.

Dylan Conklin (Portland State University, United States), Primal Pappachan (Portland State University, United States) and Roberto Yus (University of Maryland, Baltimore County, United States).

D11: LOADS: LiDAR-based Privacy-Preserving Queue Monitoring and Analysis.

Saisricharan Malkireddy (University of Maryland, Baltimore County, United States), Sumedh Kane (University of Maryland, Baltimore County, United States), Sourimitra Medepalli (University of Maryland, Baltimore County, United States), Satvik Racharla (University of Maryland, Baltimore County, United States), Bharg Barot (University of Maryland, Baltimore County, United States), Christian Badolato (University of Maryland, Baltimore County, United States) and Roberto Yus (University of Maryland, Baltimore County, United States).

Wednesday, March 19

07:30 – 08:30 Registration; Coffee (Room 150 A/B)

08:30 – 09:00 Announcements (Room 151 A/B)

09:00 – 10:00 Keynote 2 (Room 151 A/B)

Title: Collaborative Edge Computing for Ubiquitous AI

Giannong Cao, The Hong Kong Polytechnic University, Hong Kong

Chair: Christian Becker, Universität Mannheim, Germany

10:00 – 10:30 Coffee Break (Room 150 A/B)

10:30 – 12:00 Session 3: **Best Paper Candidates**

Chair: Delphine Reinhardt, University of Göttingen, Germany

- Yang Liu, Kayla-Jade Butkow, Jake Stuchbury-Wass, Adam Pullin, Dong Ma and Cecilia Mascolo **RespEar: Earable-Based Robust Respiratory Rate Monitoring – FULL**
- Evan King, Haoxiang Yu, Sahil Vartak, Jenna Jacob, Sangsu Lee and Christine Julien **Teaching Things To Think: Bootstrapping Local Reasoning for Smart(er) Devices – FULL**
- Quan Wan, Ziyu Wu, Xiaohui Cai, Mengting Niu and Fangting Xie **In-bed Pressure Image-supported Diffusion for 3D Human Mesh Recovery – FULL**

12:00 – 13:00 Lunch Break (Room 150 A/B)

13:00 – 14:20 Session 4: **Wearable & Body Area Sensing** (Room 151 A/B)

Chair: Meera Radhakrishnan, University of Technology, Sydney

- Jake Stuchbury-Wass, Yang Liu, Kayla-Jade Butkow, Josh Carter, Qiang Yang, Mathias Ciliberto, Ezio Preatoni, Dong Ma and Cecilia Mascolo **WalkEar: Holistic Gait Monitoring using Earables – FULL**
- Chugh Garvit, Indrajeet Ghosh, Sandip Chakraborty and Suchetana Chakraborty **BiteSense: Earable-Based Inertial Sensing for Eating Behaviour Assessment – FULL**
- Mengyao Liu, Jonathan Oostvogels, Bingwu Fang, Sam Michiels, Haoxiang Ma, Yang Yang and Danny Hughes **ENOCH: ENabling On-body network Contention Handling – SHORT**

2:20 – 2:50 Teaser Madness (Work-in-Progress) (Room 151 A/B)

Teaser Madness WiP Chairs: Brent Lagesse, University of Washington – Bothell, USA and Stephen Lee, University of Pittsburgh, USA

2:50 – 16:00 Coffee break and WIP posters (Room 152 A/B)

Session Chairs: Brent Lagesse, University of Washington – Bothell, USA and Stephen Lee, University of Pittsburgh, USA

W1: AquaCam: An ML-enhanced Low-Cost, Deploy-Anywhere Water Level Detection Sensor
Jacob Latham (Tennessee Technological University, United States), Grace Dadzie (Tennessee Technological University, United States), Susmit Shannigrahi (Tennessee Technological University, United States), Alfred Kalyanapu (Tennessee Technological University, United States)

W2: Can Vehicles Foresee Communication Disruptions?: Feasibility of V2X Network Digital Twin
Takamasa Higuchi (Toyota Motor Corporation, Japan), Masaki Takanashi (Toyota Central R&D Labs., Inc., Japan), Kengo Sasaki (Toyota Central R&D Labs., Inc., Japan), Yuma Taguchi (Toyota Central R&D Labs., Inc., Japan), Katsushi Sanda (Toyota Central R&D Labs., Inc., Japan)

W3: Representation learning enables uncovering psychophysiological states from wearable data
Dominika Kunc (Wrocław University of Science and Technology, Poland), Stanislaw Saganowski (Wrocław University of Science and Technology, Poland)

W4: Supporting Multi-Purpose Satellite with TZ2C Onboard Processing Capabilities
Fanjiang Xu (Institute of Software, Chinese Academy of Sciences, China), Ming Wang (Institute of Software, Chinese Academy of Sciences, China), Youmei Pan (Institute of Software, Chinese Academy of Sciences, China), Jing Sun (Institute of Software, Chinese Academy of Sciences, China), Jinwen Li (Institute of Software, Chinese Academy of Sciences, China), Peng Wang (Institute of Software, Chinese Academy of Sciences, China)

W5: Tracking Ephemeral and Residual Emotions via Earable Inertial Sensing During Media Consumption
Sameeran Ravishankar Zingre (Department of Computer Science and Engineering, Indian Institute of Technology Jodhpur, India), Garvit Chugh (Department of Computer Science and Engineering, Indian Institute of Technology Jodhpur, India), Suchetana Chakraborty (Department of Computer Science and Engineering, Indian Institute of Technology Jodhpur, India)

W6: SiTies: A Platform for Enhancing IoT System Security in Smart Cities
Mariusz Głabowski (Poznan University of Technology, Poland), Michał Weissenberg (Poznan University of Technology, Poland), Maciej Sobieraj (Poznan University of Technology, Poland),

Marek Fechner (Poznan University of Technology,Poland), Jakub Grzelski (Poznan University of Technology,Poland), Maja Maćkowiak (Poznan University of Technology,Poland)”

W7: mmTraffic : Live In-car Traffic Monitoring using mmWave Sensing

Rajib Sarkar (Indian Institute of Technology Kharagpur,India), Argha Sen (Indian Institute of Technology Kharagpur,India), Sandip Chakraborty (Indian Institute of Technology Kharagpur,India)

W8: Towards Multi-dimensional Elasticity for Pervasive Stream Processing Services

Boris Sedlak (TU Wien,Austria), Andrea Morichetta (TU Wien,Austria), Phillipp Raith (TU Wien,Austria), Víctor Casamayor Pujol (DISL – UPF,Spain), Schahram Dustdar (TU Wien,Austria)

W9: Radio Resource Optimization in LoRa IoT Networks for Smart Cities: An Approach Based on the Firefly Algorithm

Rayane Seraphim (UFG,Brazil), Antonio Oliveira-Jr (UFG,Brazil), Waldir Moreira (Fraunhofer AICOS,Portugal)

W10: Power PUFs: Strengthening SRAM PUFs Against Fault Injection on Low-Cost IoT

Devices Abhinav Komanduri (University of Arkansas,United States), Alexander Nelson (University of Arkansas,United States)

W11: Efficient Privacy-Preserving Data Annotation via Active PrivBayes Synthetic Data Generation

Osamu Saisho (NTT,Japan), Takayuki Miura (NTT,Japan), Kazuki Iwahana (NTT,Japan), Masanobu Kii (NTT,Japan), Rina Okada (NTT,Japan)

W12: Participatory Crowdsensing for the Collection of Pickup and Delivery Data

Victoria Lee (Wellesley College,United States), Amelia Zhang (Wellesley College,United States), Christine Bassem (Wellesley College,United States)

W13: On-Device Emotion Recognition from Spoken Language in Embedded Devices

Neeraj Boddeda (IIT Kharagpur, India), Sharvari Wanjari (IIT Kharagpur,India), Shashank Goud Boorgu (IIT Kharagpur,India), Prasenjit Karmakar (IIT Kharagpur,India), Sandip Chakraborty (Indian Institute of Technology Kharagpur,India)

W14: Exploring Large Language Models in Active Learning for Annotating Physical Sensing Data

Aritra Hota (IIT Kharagpur,India), Soumyajit Chatterjee (Nokia Bell Labs, Cambridge,United Kingdom), Sandip Chakraborty (Indian Institute of Technology Kharagpur,India)

W15: Initial Findings on Sensor based Open Vocabulary Activity Recognition via Text Embedding Inversion

Lala Shakti Swarup Ray (DFKI Kaiserslautern,Germany), Bo Zhou (DFKI & RPTU

Kaiserslautern,Germany), Sungho Suh (DFKI & RPTU Kaiserslautern,Germany), Paul Lukowicz (DFKI & RPTU Kaiserslautern,Germany)

W16: SandDune: Single ANtenna Device for Detecting User's Natural Eating Habits
Shreyans Jain (BITS Pilani Goa Campus, India), Yash Bhisikar (BITS Pilani Goa Campus, India), Surjya Ghosh (BITS Pilani Goa Campus, India), Timothy Pierson (Dartmouth College,United States), Sougata Sen (BITS Pilani Goa Campus, India)

16:00 – 17:30 Session 5: **Edge and Battery-less Systems** (Room 151 A/B)

Chair: Georgios Bouloukakis, Télécom SudParis / IP Paris, France

- Thanh-Tung Nguyen, Lucas Liebe, Nhat-Quang Tau, Yuheng Wu, Jinghan Cheng and Dongman Lee **OCTOPINF: Workload-Aware Real-Time Inference Serving for Edge Video Analytics – FULL**
- Vishak Narayanan, Mahmoud Gshash, Vishal Deep, Mathew L Wymore, Daji Qiao, Nathan M Neihart and Henry Duwe **PAIL: Predictable and Adaptive Intermittent Lifecycling for Robust Coordination between Batteryless Systems – SHORT**
- Kosta Dakic, Kanchana Thilakarathna, Rodrigo Calheiros and Teng Joon Lim **Resource-Efficient Multiview Perception: Integrating Semantic Masking with Masked Autoencoders – SHORT**
- Mohammed Ayyat and Tamer Nadeem **RACENet: Real-time Adaptive Class-aware Early-exit Networks for Edge Devices – SHORT**

6:30 – 11:00 Gala Dinner

National Press Club, Washington DC

Thursday, March 20

07:30 – 08:30 Registration (Room 151 A/B Foyer); Coffee (Room 150 A/B)

08:30 – 10:00 Industry Track (Room 151 A/B)

Chair: Dr. Arpan Pal, Tata Consultancy Services, India

- **Designing Silver Conductive Ink S-Curve Interconnects for Bio-potential Monitoring E-Textiles via Material Deposition Fabrication**
Sonya Patel (Humber Polytechnic), Vlad Porcila (Humber Polytechnic), Alfonso Miguel Alvaran (Humber Polytechnic), Jeremy Nugara (Humber Polytechnic), Ahsan Abdullah (Humber Polytechnic), Adriana Ieraci (Toronto Metropolitan University), Sharon Gabison

(University of Toronto), Jane Batt (Unity Health Toronto), Alireza Sadeghian (Toronto Metropolitan University), and Maryam Davoudpour (Humber Polytechnic)

- **Echoes Unveiled: Identifying Synthetic Voices**
Daniel Pluth (Vail Systems), Jordan Hosier (Vail Systems), Yu Zhou (Vail Systems), and Vijay Gurbani (Vail Systems)
- **Indoor Trajectory Estimation with Passerby Data without GPS nor WiFi Signals**
Hidehito Gomi (LY Corporation), Kota Tsubouchi (LY Corporation), and Teruhiko Teraoka (LY Corporation)
- **Real Time English to British Sign Language Translation for Accessible Banking**
Abhishek Bharadwaj Varanasi (Tata Consultancy Services), Manjira Sinha (Tata Consultancy Services), Tirthankar Dasgupta (Tata Consultancy Services), and Charudatta Jadhav (Tata Consultancy Services)
- **Digital Twin for Networks – Emulation as a Service (EaaS)**
Garima Mishra (Tata Consultancy Services), Muskan Rana (Tata Consultancy Services), Hemant Rath (Tata Consultancy Services), Shameemraj Nadaf (Tata Consultancy Services), and Muralidharn Menon (Tata Consultancy Services)

10:00 – 10:30 Coffee Break (Room 150 A/B)

10:30 – 12:00 Panel (Room 151 A/B)

Topic: AI Strategy for Pervasive Systems: Radical Redesign or Incremental Integration

Moderator: Dr. Gurdip Singh, George Mason University

Panelists:

Dr. Tarek Abdelzaher, University of Illinois Urbana-Champaign

Dr. Yiran Chen, Duke University

Dr. Dinesh Manocha, University of Maryland, College Park

Dr. Adrienne Raglin, Army Research Lab

Dr. Walid Saad, Virginia Tech

12:00 – 13:30 Lunch Break (Room 150 A/B)

13:30 – 15:10 Session 6: **Learning and Activity Recognition** (Room 151 A/B)

Chair: Daniela Nicklas, University of Bamberg, Germany

- Jaime Morales, Qingxin Xia, Naoya Yoshimura, Hirotomo Oshima, Masamitsu Fukuda, Yasuo Namioka and Takuya Maekawa **Multilevel Transfer Learning for Complex Work Activity Recognition in Logistic Domain – FULL**
- Abdelwahed Khamis and Sara Khalifa **NeuralPrefix: A Zero-shot Sensory Data Imputation Plugin – FULL**
- Han Lin, Atsushi Nomura, Kota Tsubouchi, Nobuhiko Nishio and Masamichi Shimosaka **The Power of Periodicity: Exploiting Periodic UWB CIRs for Robust Activity Recognition with Attention-aware Multi-level Wavelet – SHORT**
- Wen Ge, Guanyi Mou, Emmanuel Agu and Kyumin Lee **Semantically Encoding Activity Labels for Context-Aware Human Activity Recognition – SHORT**

15:10 – 15:30 Coffee Break (Room 150 A/B)

15:30 – 17:00 Session 7: **Localization & IoT Systems** (Room 151 A/B)

Chair: Roberto Yus, University of Maryland, Baltimore County

- Yeawon You, Jinyi Yoon, Dayeon Kang, Jeewoon Kim and HyungJune Lee **CollageMap: Tailoring Generative Fingerprint Map via Obstacle-Aware Adaptation for Site-Survey-Free Indoor Localization – FULL**
- Zhouyu Li, Pinxiang Wang, Xiaochun Liang, Xuanhao Luo, Yuchen Liu, Xiaojian Wang, Huayue Gu and Ruozhou Yu **AdaOrb: Adapting In-Orbit Analytics Models for Location-aware Earth Observation Tasks – SHORT**
- Rajib Sarkar, Argha Sen and Sandip Chakraborty **CarVision: Vehicle Ranging and Tracking Using mmWave Radar for Enhanced Driver Safety – SHORT**
- Yuanhao Feng, Donghui Dai, Xiaopeng Zhao, Jingyu Tong, Zheng Gong and Lei Yang **Deciphering Micro-Scale, Sub-Hertz Mechanical Vibrations in Industry 4.0: A Battery-Free Sensing Approach – SHORT**

17:00 – 18:30 Townhall Meeting (Room 151 A/B)

Friday, March 21

07:30 – 08:30 Registration (Room 151 A/B Foyer); Coffee (Room 150 A/B)

08:30 – 10:00 Workshops + Tutorials

BRAIN: 8:30 am – 5:00 pm, Full Day: Room 151 A

DIGITA: 8:30 am – 5:00 pm, Full Day: Room 151 B

PerVehicle: 8:30 am – 5:00 pm, Full Day: Room 154 A

WiSense: 8:30 am – 5:00 pm, Full Day: Room 154 B

TRUST-SENSE: 8:30 am – 5:00 pm, Full Day: Room 149 A

EDGE-WELL: 8:30 am – 12:00 pm, Half Day: Room 149 B

Tutorial: Dynamic Architectural Adaptations for Resource-Efficient Generative AI in IoT Systems

Chair: Vaskar Raychoudhury, Miami University

Speakers: Divya Saxena, Jiannong Cao,
9:00 am – 12:00 pm; Room 147 A

10:00 – 10:30 Coffee Break (Room 150 A/B)

10:30 – 12:00 Workshops + Tutorials

12:00 – 1:30 Lunch (Room 150 A/B)

1:30 – 3:00 Workshops + Tutorials

Tutorial: Tracking Human Activities in an Interactive Space: Unveiling the Potential of mmWave Sensing

Chair: Roberto Yus, University of Maryland, Baltimore County, USA

Speakers: Argha Sen, Sandip Chakraborty and Swadhin Pradhan
2:00 pm – 3:30 pm; Room 147 B

3:00 – 3:30 Coffee Break (Room 150 A/B)

3:30 – 5:00 Workshops + Tutorials
