

IPSN_PhDForum, 21-apr-2020		AEST
Welcome Message		8:00:00 AM
Session 1: Europe & US		8:10:00 AM
Understanding Deep Model Compression for IoT Devices, Rahim Entezari (TU Graz, Austria)		
Scheduling Tasks on Intermittently Powered Systems, Bashima Islam (University of North Carolina at Chapel Hill)		
Low-Power Wide-Area Networks: Connect, Sense and Secure, Akshay Gadre (Carnegie Mellon University)		
Virtual Coffee Break		9:10:00 AM
Session 2: Australia Part 1		9:30:00 AM
Towards Deep Learning in Signal Translation for Cross Configuration device-free WiFi Sensing, Isura Nirmal (UNSW, Australia)		
Activity Classification at the Edge, Seyedehfaezeh Hosseininoorbin (UQ and CSIRO, Australia)		
Dynamic Inference on IoT Network Traffic using Programmable Telemetry and Machine Learning, Arman Pashamokhtari (UNSW, Australia)		
Virtual Coffee Break		10:30:00 AM
Session 3: Australia Part 2		10:50:00 AM
Key Generation Scheme for LPWAN IoT Devices, Jiayao Gao (UNSW, Australia)		
Energy Harvesting based Sensing for the Batteryless IoT, Muhammad Moid Sandhu (UQ and CSIRO, Australia)		
Transforming Construction Processes Using Internet of Things and Blockchain, Ambrose Hill (UNSW and CSIRO, Australia)		
Virtual Coffee Break		11:50:00 AM
Award Announcement and Closing Remarks		12:10:00 PM

IPSN_AU, 22-apr-2020		AEST
Keynote 1		10:00:00 AM
Welcome Message and Awards		11:00:00 AM
Session 1: Localization		11:15:00 AM
Supreme: Fine-grained Radio Map Reconstruction via Spatio-Temporal Fusion Network. Kehan Li, Jiming Chen (Zhejiang University); Baosheng Yu (The University of Sydney); Zhangchong Shen, Chao Li, Shibo He (Zhejiang University)		
SateLoc: A Virtual Fingerprinting Approach to Outdoor LoRa Localization using Satellite Images. Yuxiang Lin, Wei Dong, Yi Gao (Zhejiang University); Tao Gu (RMIT University)		
VLD: Smartphone-assisted Vertical Location Detection for Vehicles in Urban Environments. Xiong Wang, Linghe Kong, Tianpeng Wei (Shanghai Jiao Tong University); Liang He (University of Colorado Denver); Guihai Chen (Shanghai Jiao Tong University); Jiangtao Wang (Lancaster University); Chenren Xu (Peking University)		
Virtual Coffee Break		12:00:00 PM
Session 2: Social/Mobile Learning		12:20:00 PM
Estimating Heart Rate and Detecting Feeding Events of Fish Using an Implantable Biologger. Yiran Shen, Brano Kusy, Reza Arablouei, Frank De Hoog, Jaques Malan, James Sharp, Sara Shouri (CSIRO); Tim Clark (Deakin University); Carine Lefevre, Frederieke Kroon, Andrea Severati (AIMS)		
E-Jacket: Posture Detection with Loose-Fitting Garment using a Novel Strain Sensor. Qi Lin, Shuhua Peng; Yuezhong Wu; Jun Liu; Wen Hu; Mahub Hassan; Aruna Seneviratne; Chun H Wang (University of New South Wales)		
No-frills Water Comfort for Developing Regions. Samar Abbas, Ahmed Ehsan, Saad Ahmed (LUMS, Pakistan); Sheraz Ali Khan (University of Ulsan, South Korea); Tariq M. Jadoon, Muhammad Hamad Alizai (LUMS, Pakistan)		
MDLdroid: a ChainSGD-reduce Approach to Mobile Deep Learning for Personal Mobile Sensing. Yu Zhang, Tao Gu, Xi Zhang (RMIT University)		
Virtual Coffee Break		1:20:00 PM
Panel: What role can blockchain play in CPS/IoT?		1:40:00 PM
Virtual Coffee Break		2:10:00 PM
Session 3: RF Comms & Sensing		2:30:00 PM

Fireworks: Channel Estimation of Parallel Backscattered Signals. Meng Jin, Yuan He (Tsinghua University); Yunhao Liu (MSU & Tsinghua University)	
Distributed Slot Scheduling for QoS Guarantee over TSCH-based IoT Networks via Adaptive Parameterization. Jinhwan Jung (KAIST, EE); Daewoo Kim (Latent Logic); Taeyoung Lee, Joohyun Kang, Namjo Ahn, Yung Yi (KAIST, EE)	
Robust Dynamic Hand Gesture Interaction using LTE Terminals. Weiyang Chen, Kai Niu (Peking University); Deng Zhao (China University of Geosciences); Rong Zheng (McMaster University); Dan Wu (Peking University); Wei Wang (Nanjing University); Leye Wang, Daqing Zhang (Peking University)	
Virtual Coffee Break	3:15:00 PM
Closing Remarks	3:30:00 PM

IPSN_EU, 23-apr-2020	CEST
Welcome Message	10:00:00 AM
Session 4: Localization/Mapping	10:15:00 AM
LOCI: Privacy-aware, Device-free, Low-power Localization of Multiple Persons using IR Sensors. Sujay Narayana; Vijay Rao; Kavya Managundi, Ajay Keshava; Venkatesha Prasad (TU Delft); TV Prabhakar (IISc); Luca Mottola (Politecnico di Milano, Italy and RI.SE SICS Sweden)	
RFMap: Generating Indoor Maps using RF Signals. Usman Mahmood Khan; Raghav Hampapur Venkatnarayan; Muhammad Shahzad (North Carolina State University)	
A Spoof-Proof GPS Receiver. Manuel Eichelberger, Ferdinand von Hagen, Roger Wattenhofer (ETH Zurich)	
Virtual Coffee Break	11:00:00 AM
Session 5: Social/Mobile/Low Power Sensing	11:15:00 AM
Group-In: Group Inference from Wireless Traces of Mobile Devices. Gurkan Solmaz, Jonathan Fuerst (NEC Laboratories Europe); Samet Aytac (Bogazici University); Fang-Jing Wu (TU Dortmund)	
TagAlong: Integration of Battery-free Sensor Tags in Standard Wireless Networks. Carlos Pérez-Penichet, Dilushi Piumwardane, Christian Rohner (Uppsala University); Thiemo Voigt (Uppsala University and RISE SICS)	
Continuous Sensing on Intermittent Power. Amjad Yousef Majid (Delft University of Technology); Patrick Schilder (Delft university of technology); Koen Langendoen (Delft University of Technology)	
Virtual Coffee Break	12:00:00 PM
Closing Remarks	12:15:00 PM

IPSN_US, 24-apr-2020	CDT
Keynote 2	10:00:00 AM
Welcome Message	11:00:00 AM
Session 6: Localization/Tracking/RF Sensing	11:15:00 AM
SolarFinder: Automatic Detection of Solar Photovoltaic Arrays. Qi Li, Yuzhou Feng, Yuyang Leng, Dong Chen (Florida International University)	
Efficient Localization of Multiple Intruders for Shared Spectrum System. Caitao Zhan (Stony Brook University); Arani Bhattacharya (KTH Royal Institute of Technology); Himanshu Gupta, Mohammad Ghaderibaneh (Stony Brook University)	
Electric Vehicle Battery Energy Information is Enough to Track You. Liuwang Kang, Haiying Shen (University of Virginia)	
Brake Data-Based Location Tracking in Usage-Based Automotive Insurance Programs. Ankur Sarker (University of Virginia); Chenxi Qiu (Rowan University); Haiying Shen, Hua Uehara, Kevin Zheng (University of Virginia)	
Virtual Coffee Break	12:15:00 PM
Session 7: Social/Mobile Sensing	12:35:00 PM
Selective Sampling for Building Sensor Type Classification. Jing Ma (University of Virginia); Dezhi Hong (UC San Diego); Hongning Wang (University of Virginia)	
Distributed Human Trajectory Sensing and Partial Similarity Queries. Haotian Wang, Jie Gao (Stony Brook University)	
OFFICE: Optimization Framework For Improved Comfort & Efficiency. Daniel Winkler, Ashish Yadav, Claudia Chitu, Alberto Cerpa (University of California, Merced)	

Quick (and Dirty) Aggregate Queries on Low-Power WANs. Akshay Gadre (Carnegie Mellon University); Fan Yi (Princeton University); Anthony Rowe, Bob Iannucci, Swarun Kumar (Carnegie Mellon University)	
Virtual Lunch Break	1:35:00 PM
Session 8: Augmented Environments/Crowdsourcing	2:00:00 PM
All that GLITTERs: Low-Power Spoof-Resilient Light Anchors for Augmented Reality. Rahul Anand Sharma, Adwait Dongare, John Miller, Nicholas Wilkerson (Carnegie Mellon University); Vyas Sekar (CMU); Prabal Dutta (UC Berkeley); Anthony Rowe (CMU)	
CollabAR: Edge-assisted Collaborative Image Recognition for Mobile Augmented Reality. Zida Liu, Guohao Lan (Duke University); Jovan Stojkovic (University of Belgrade); Yunfan Zhang (Duke University); Carlee Joe-Wong (Carnegie Mellon University); Maria Gorlatova (Duke University)	
Road Grade Estimation Using Crowd-sourced Smartphone Data. Abhishek Gupta (University at Buffalo); Shaohan Hu (IBM Research); Weida Zhong, Adel Sadek, Lu Su, Chunming Qiao (University at Buffalo)	
Virtual Coffee Break	2:45:00 PM
Closing Remarks	3:00:00 PM