

# 2021 CPS-IOT Week

# RTAS POSTERS/DEMOS

The demo and poster session will be held on  
Wednesday, May 19 at 2:15 p.m. CDT

Title	#
<b>Demo</b>	
<b>A Full-Blown 6TiSCH Network with Partition-based Network Resource Management for Large-Scale Real-Time Wireless Applications</b> <i>Jiachen Wang; Tianyu Zhang; Song Han; Xiaobo Sharon Hu</i>	1
<b>RT-WPCN: A Multi-hop Real-time Wireless Powered Communication Network</b> <i>Zelin Yun; Song Han</i>	24
<b>Work Already Published</b>	
<b>A schedule randomization policy to mitigate timing attacks in WirelessHART networks</b> <i>Ankita Samaddar; Arvind Easwaran; Rui Tan</i>	3
<b>Short Paper: Brief Industry Paper</b>	
<b>A Model-based Framework and Tool Support for Capturing System Verification Strategy</b> <i>Mole Li; Alan Grigg</i>	2
<b>An Edge-Based High-Definition Map Crowdsourcing Task Distribution Framework for Autonomous Driving</b> <i>Donghua Li; Jie Tang; Shaoshan Liu</i>	4
<b>An Energy-Reduction On-Chip Memory Management for Intermittent Systems</b> <i>Yu-Pei Liang; Shuo-Han Chen; Yen-Ting Chen; Tseng-Yi Chen; Yu-Ting Fang; Wei-Lin Wang; Wei-Kuan Shih; Yuan-Hao Chang</i>	5
<b>An Infrastructure-Aided High Definition Map Data Provisioning Service for Autonomous Driving</b> <i>jinliang Xie; Jie Tang; Yanzhi Wang; Qi Zhu; Shaoshan Liu</i>	6
<b>AutoToolCSU: CAN Signal Unpacking Tool for Automotive Software</b> <i>Guoqi Xie; Pingfu Xie; Bo He; Fengnan Huang; Renfa Li</i>	7
<b>AXI-Interconnect<sup>^</sup>{RT}: Towards a Real-Time AXI-Interconnect in System-on-Chips</b> <i>Zhe Jiang; Neil Audsley; Dayu Shi; Kecheng Yang; Nathan Fisher; Zheng Dong;</i>	8
<b>Catching IoT Malware in The Wild Using HoneyIoT</b> <i>Yiwen Xu; Yu Jiang; Lu Yu; Juan Li</i>	9
<b>Digital Twin for Dependable Multi-Core Real-Time Systems --- Requirements and Open Challenges</b> <i>Xiaotian Dai; Shuai Zhao; Iain Bate; Alan Burns; Xing Guo; Wanli Chang</i>	10
<b>Dissecting the QNX Adaptive Partitioning Scheduler</b> <i>Dakshina Dasari; Arne Hamann; Holger Broede; Michael Pressler; Dirk Ziegenbein; Dakshina Dasari</i>	11
<b>HDAD: Hyperdimensional Computing-based Anomaly Detection for Automotive Sensor Attacks</b> <i>Ruixuan Wang; Fanxin Kong; Hasshi Sudler; Xun Jiao</i>	13
<b>Identifying Unexpected Inter-core Interference Induced by Shared Cache</b> <i>Denis Hoornaert; Shahin Roozkhosh; Renato Mancuso; Marco Caccamo</i>	15
<b>LiteOS: Managing Sleep for Low-energy IoT</b> <i>Chuancai Gu; Tao Yang; Qiulin Chen; Mingsong Lyu</i>	16
<b>Modeling and Verification of Descent Guidance Control of Mars Lander</b> <i>Bohua Zhan; Bin Gu; Xiong Xu; Xiangyu Jin; Shuling Wang; Bai Xue; Xiaofeng Li; Yao Chen; Mengfei Yang; Naijun Zhan</i>	18
<b>Optimizing Memory Efficiency of Graph Neural Networks on Edge Computing Platforms</b> <i>Ao Zhou; Jianlei Yang; Yeqi Gao; Tong Qiao; Yingjie Qi; Xiaoyi Wang; Yunli Chen; Pengcheng Dai; Weisheng Zhao; Chunming Hu</i>	20
<b>SylixOS: A Secure and Compatible RTOS with Constant Scheduling on SMP</b> <i>Yuanhai Zhang; Hui Han; Jinxing Jiao; Guizhou Xu; Gang Chen; Kai Huang</i>	25
<b>Tenma: A Real-time LibOS Developed for Industry Embedded Systems</b> <i>Zhihui Gao; Hui Chen; Wei Ren; Jianhui Huang; Lei Dai; Zichang Lin</i>	26
<b>The Matter of Time: A General and Efficient System for Precise Sensor Synchronization in Robotic Computing</b> <i>Shaoshan Liu; Bo Yu; Yahui Liu; Kunai Zhang; Yisong Qiao; Thomas Yuang Li; Jie Tang; Yuhao Zhu</i>	27
<b>Towards Real-Time 3D Object Detection for Autonomous Vehicles with Pruning Search</b> <i>PU ZHAO; Wei Niu; Geng Yuan; Yuxuan Cai; Hsin-Hsuan Sung; Shaoshan Liu; Sijia Liu; Xipeng Shen; Bin Ren; Yanzhi Wang; Xue Lin</i>	29
<b>Workload-Aware GPU Performance Estimation in the Airborne Embedded System</b> <i>Yuan Yao; Sikai Wu; Shuangyang Liu; Qingshuang Sun; Gang Yang; Yujiao Hu; Yu Zhang; Huixia Liu; Xinyu Tian</i>	30

Title	#
<b>Short Paper: Work in Progress</b>	
<b>Fault Tolerance in a Two-State Regularity-Based Checkpointing System</b> <i>Elena Torre; Albert M. K. Cheng; Guangli Dai; Pavan Kumar Paluri;</i>	12
<b>Heart Disease Detection Methodology using E-Stethoscope</b> <i>Sayeda Farzana Aktar; Stefan Andrei; Albert M.K. Cheng</i>	14
<b>Identifying Unexpected Inter-core Interference Induced by Shared Cache</b> <i>Denis Hoornaert; Shahin Roozkhosh; Renato Mancuso; Marco Caccamo</i>	15
<b>Mobile or FPGA? A Comprehensive Evaluation on Energy Efficiency and a Unified Optimization Framework</b> <i>Geng Yuan; Peiyan Dong; Mengshu Sun; Wei Niu; Zhengang Li; Yuxuan Cai; Jun Liu; Weiwen Jiang; Xue Lin; Bin Ren; Xulong Tang; Yanzhi Wang</i>	17
<b>Network Attack Detection Towards Smart Factory</b> <i>Dan Tang; Dongshuo Zhang; Huan Zhao; Dashun Liu; Yudong Yan; Jingwen Chen</i>	19
<b>Path-based Graph Partition for Parallel Hardware-accelerated Functional Verification</b> <i>Peiyong Lin; Kenli Li; Siyang Yu; Zheng Xiao; Cen Chen</i>	21
<b>Power-aware Scheduling Strategy for Multiple DAGs in the Heterogeneous Cloud</b> <i>Hui Zhao; Shangshu Li; Quan Wang; Jing Wang</i>	22
<b>Role-based Deep Reinforcement Learning with Information Sharing for Intelligent Unmanned Systems</b> <i>Qingshuang Sun; Yuan Yao; Peng Yi; Xingshe Zhou; Gang Yang</i>	23
<b>Topology-based Multilevel Algorithm for Large-scale Task Scheduling in Clouds</b> <i>Minjia Li; Yikun Hu; Cen Chen; Zheng Xiao; Chubo Liu; Kenli Li</i>	28

# 2021 CPS-IOT Week

# HSCC/ICCPs/SRC Comp. POSTERS/DEMOS

The demo and poster session will be held on  
Wednesday, May 19 at 2:15 p.m. CDT

Title	#
<b>HSCC Poster</b>	
<b>Adaptive Strategies for rLTL Game</b> <i>Satya Prakash Nayak, Daniel Neider, and Martin Zimmermann</i>	31
<b>Epidemic Overdispersion Strengthens the Effectiveness of Mobility Restrictions</b> <i>Gerrit Grossmann, Michael Backenköhler, and Verena Wolf</i>	32
<b>Estimating Infinitesimal Generators of Stochastic Systems with Formal Error Bounds: A Data-Driven Approach</b> <i>Abolfazl Lavaei, Ameneh Nejati, Sadegh Soudjani, and Majid Zamani</i>	33
<b>Filtering over Networks with Random Communication</b> <i>Aneel Tanwani</i>	34
<b>Formal Safety Verification of Unknown Continuous-Time Systems: A Data-Driven Approach</b> <i>Abolfazl Lavaei, Ameneh Abolfazl Lavaei, Ameneh Nejati, Pushpak Jagtap, and Majid Zamani</i>	35
<b>Interval Observer Design of Dynamical Systems With Neural Network</b> <i>Weiming Xiang</i>	36
<b>OmegaThreads: Symbolic Controller Design for <math>\omega</math>-regular Objectives</b> <i>Mahmoud Khaled and Majid Zamani</i>	37
<b>On-The-Fly, Data-Driven Reachability Analysis and Control of Unknown Systems: An F-16 Aircraft Case Study</b> <i>Franck Djeumou and Aditya Zutshi</i>	38
<b>ICCPs WIP/Poster</b>	
<b>Machine Learning Assisted Propeller Design</b> <i>Harsh Vardhan, Peter Volgyesi and Janos Sztipanovits</i>	39
<b>Plug-in Electric Vehicles Demand Modeling in Smart Grids: A Deep Learning-based Approach</b> <i>Hamidreza Jahangir and Charalambos Konstantinou</i>	40
<b>Robust Out-of-distribution Motion Detection and Localization in Autonomous CPS</b> <i>Yeli Feng and Arvind Easwaran</i>	41
<b>Safer Adaptive Cruise Control for Traffic Wave Dampening</b> <i>Emily Baschab, Savannah Ball, Audrey Vazzana and Jonathan Sprinkle</i>	42
<b>A Smart City Simulation Platform with Uncertainty</b> <i>Shuyang Dong, Meiyi Ma and Lu Feng</i>	44
<b>ICCPs Demo</b>	
<b>Porting and Execution of Machine Learning Classifiers on MCU-based IoT Devices</b> <i>Bharath Sudharsan, Pankesh Patel, John G Breslin and Muhammad Intizar Ali</i>	
<b>SRC Comp. Poster</b>	
<b>ADAS-RL: Adaptive Vector Scaling Reinforcement Learning For Human-in-the-Loop Lane Departure Warning</b> <i>Armand Ahadi-Sarkani (University of California, Irvine)</i>	45
<b>Moonshine: An Online Randomness Distiller for Zero-Involvement Authentication</b> <i>Jack West (Loyola University Chicago)</i>	46
<b>Provably Safe Reinforcement Learning: An Abstraction-Based Approach</b> <i>Xiaowu Sun (University of California, Irvine)</i>	47
<b>Safer Adaptive Cruise Control for Traffic Wave Dampening</b> <i>Emily Baschab (University of Alabama), Savannah Ball (Monmouth College), and Audrey Vazzana (Rose-Hulman Institute of Technology)</i>	48
<b>Symmetry abstraction-refinement algorithm for faster scenario verification</b> <i>Hussein Sibai (University of Illinois at Urbana-Champaign)</i>	49
<b>Towards Reliable Automatic Learning Systems: (Im)proving the Safety of Learning-enabled Systems</b> <i>Jiameng Fan (Boston University)</i>	50
<b>Vibration Intelligence: Bringing Machine Perception Beyond the Human-Like</b> <i>Wenqiang Chen (University of Virginia)</i>	51
<b>An Energy-Aware Scheduling Framework for Energy Harvesting-based Sensing</b> <i>Muhammad Moid Sandhu (The University of Queensland)</i>	52
<b>Interpretable Remote Sensing using Satellite Imagery for Humanitarian Relief after Natural Disasters</b> <i>Thomas Y. Chen (Academy for Mathematics, Science, and Engineering)</i>	53
<b>Sensing behaviors in public spaces</b> <i>Andrew Xu (University of Pittsburgh)</i>	54

# 2021 CPS-IOT Week

## IPSN/IOTDI POSTERS/DEMOS

The demo and poster session will be held on  
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Title	#
<b>IPSN Poster</b>	
<b>A Multi-source Unsupervised Domain Adaptation Method for Wearable Sensor based Human Activity Recognition</b> <i>Baiqiang Zhang (Harbin Institute of Technology), Rong Zheng (McMaster University), and Jie Liu (Harbin Institute of Technology (Shenzhen))</i>	55
<b>Are Android Malware Detection Models Adversarially Robust?</b> <i>Hemant Rathore (Birla Institute of Technology and Science, Pilani, India), Sanjay K. Sahay (Birla Institute of Technology and Science, Pilani, India), and Mohit Sewak (Security and Compliance Research, Microsoft R &amp; D, India)</i>	57
<b>Detecting Human-Induced Changes in Powerline Signals: A Human Sensing System Design</b> <i>Tian Zhou (Tsinghua University) and Lin Zhang (Tsinghua University)</i>	58
<b>Game-Theoretic Optimization of the TSCH Scheduling Function for Low-Power IoT Networks</b> <i>Omid Tavallaie (The University of Sydney), Javid Taheri (Karlstad University), Albert Zomaya (The University of Sydney), and Javid Taheri (javid.taheri@kau.se)</i>	60
<b>Improving Acoustic Detection and Classification in Mobile and Embedded Platforms</b> <i>Stephen Xia (Columbia University), Xiaofan Jiang (Columbia University), and Stephen Xia (Columbia University)</i>	62
<b>Low-Cost, Perspective Invariant and Personalized Thermal Comfort Estimation</b> <i>Peter Wei (Columbia University), Yanchen Liu (Columbia University), and Xiaofan Jiang (Columbia University)</i>	63
<b>Multiple Event Detection using Minimum Inputs</b> <i>Shashini Wanniarachchi (University of Bremen, Germany), Jens Dede (University of Bremen, Germany), Anna Forster (University of Bremen, Germany), and Shashini Wanniarachchi (university of bremen)</i>	64
<b>Non-parametric Bayesian Learning for Newcomer Detection using Footstep-Induced Floor Vibration</b> <i>Yiwen Dong (Stanford University), Jonathon Fagert (Carnegie Mellon University), Pei Zhang (University of Michigan), and Hae Young Noh (Stanford University)</i>	65
<b>Protecting User Data Privacy with Adversarial Perturbations</b> <i>Ziqi Wang (University of California, Los Angeles), Brian Wang (University of California, Los Angeles), and Mani Srivastava (University of California, Los Angeles)</i>	66
<b>User Identification Across Multiple Smart Pill Bottle Systems</b> <i>Murtadha Aldeer (WINLAB, Rutgers University), Richard Howard (WINLAB, Rutgers University), Richard P. Martin (WINLAB, Rutgers University), and Jorge Ortiz (WINLAB, Rutgers University)</i>	67
<b>IPSN Demo</b>	
<b>A Novel Architecture for Semi-Active Wake-Up Radios Attaining Sensitivity Beyond -70 dBm</b> <i>Giannis Kazdaridis (University of Thessaly), Nikos Sidiropoulos (University of Thessaly), Ioannis Zografopoulos (University of Thessaly), and Thanasis Korakis (University of Thessaly)</i>	56
<b>Distributed Virtual CPS Environment for K12</b> <i>Gordon Stein (Vanderbilt University), Devin Jean (Vanderbilt University), and Akos Ledecz (Vanderbilt University)</i>	59
<b>Hands-On IoT Education with Mobile Devices</b> <i>Devin Jean (Vanderbilt University), Gordon Stein (Vanderbilt University), and Akos Ledecz (Vanderbilt University)</i>	61
<b>VoiSense: Harnessing Voice Interaction on a Smartwatch to Collect Sensor Data</b> <i>Sirat Samyoun (University of Virginia) and John Stankovic (University of Virginia)</i>	68
<b>IoTDI Poster</b>	
<b>A Transfer Learning Framework for IoT-enabled Environments</b> <i>Amin Anjomshoaa (Lero - the Irish Software Research Centre, National University of Ireland); Edward Curry (Insight Centre for Data Analytic, National University of Ireland)</i>	69
<b>Accurate and Fast Detection of Tag Antenna Damage for RFID Sensing</b> <i>Yinan Zhu, Chunhui Duan, Xuan Ding (Tsinghua University)</i>	70
<b>Benefits of GPU-CPU Task Replacement for Edge Device and Platform</b> <i>Cheng-You Lin, Chao Wang (National Taiwan Normal University)</i>	71
<b>Configuration Tuning for Distributed IoT Message Systems Using Deep Reinforcement Learning</b> <i>Zhuangwei Kang, Yogesh Barve, Shunxing Bao, Abhishek Dubey, Aniruddha Gokhale (Vanderbilt University)</i>	72
<b>Design of an Energy-Efficient End-to-End Messaging Protocol for Smart Cities</b> <i>Shang Chih Chung, Chao Wang (National Taiwan Normal University)</i>	73
<b>Enabling a Flexible and Sustainable Smart Campus Networking Backbone Using LoRaWAN</b> <i>Cheng-En Yu, Chao Wang (National Taiwan Normal University)</i>	74

<b>Energy Efficiency and Timeliness in Model Training for Internet-of-Things Applications</b> <i>Chih-Shuo Mei, Chao Wang (National Taiwan Normal University)</i>	75
<b>Improving Security Performance of Dual UAVs System with Unknown Eavesdropper Location</b> <i>Jianwei Sun, Heng Zhang, Weiwei Xu, Hongran Li, Jian Zhang, Jiacheng Ke, Hao Yan (Jiangsu Ocean University)</i>	76
<b>Indoor Height Recovery by Cellular Signal Data</b> <i>Weixiong Rao, Jinhua Lv, Yige Zhang, Erwu Liu, Rui Wang (Tongji University); Zhao Dong (China Mobile); Zhiren Fu (China Telecom); Yanfen Chen (China Unicom)</i>	77
<b>Online Energy Management under Uncertainty for Net-Zero Energy Ecosystems</b> <i>Chunqiu Xia, Wei Li, Xiaomin Chang, Albert Zomaya (The University of Sydney)</i>	78
<b>Optimal Distributed Bandwidth Allocation in NB-IoT Networks</b> <i>Hongde Wu, Zhengyong Chen, Noel E. O'Connor, Mingming Liu (School of Electronic Engineering, Dublin City University)</i>	79
<b>Third Party Authorization of LwM2M Clients</b> <i>Leandro Lanzieri, Peter Kietzmann, Thomas C. Schmidt (HAW Hamburg); Matthias Wählisch (Freie Universität Berlin)</i>	82
<b>Vibration-based Indoor Occupant Gait Monitoring with Robot Vacuum Cleaners</b> <i>Zhizhang Hu, Yue Zhang, Shijia Pan (University of California Merced)</i>	83
<b>IoT Demo</b>	
<b>Porting and Execution of Anomalies Detection Models on Embedded Systems in IoT</b> <i>Bharath Sudharsan, Pankesh Patel, Abdul Wahid, Muhammad Yahya, John G. Breslin (National University of Ireland Galway); Muhammad Intizar Ali (Dublin City University)</i>	80
<b>SmartParcels - A What-If Analysis and Planning Tool for IoT-Enabled Smart Communities</b> <i>Tung-Chun Chang (University of California, Irvine, USA); Georgios Bouloukakis (Télécom SudParis, France); Chia-Ying Hsieh, Cheng-Hsin Hsu (National Tsing Hua University, Taiwan); Nalini Venkatasubramanian (University of California, Irvine, USA)</i>	81