		Room 302	Room 301
August 30 Wed	9:00	Opening and Keynote	
	10:30	Break	
	11:00	Session 1: Best Paper Candidates	NVMSA 1: Solid-State Drive
	12:30	Lunch Break	
	13:30	Session 2: Real-Time Systems 1	NVMSA 2: Security and Isolation (14:00-)
	15:00	Break	
	15:30	Session 3: Embedded Systems 1	NVMSA 3: Invited Talk (15:20-)
	17:30	Welcome Reception & Poster Presentations (Room 201)	
August 31 Thu	9:30	NVMSA Keynote	
	10:30	Break	
	11:00	Session 4: IoT, CPS, and Emerging Applications 1	NVMSA 4: Machine Learning in Memory
	12:30	Lunch Break	
	14:00	Sponsor Talk	
	15:00	Break	
	15:30	Session 5A: Real-Time Systems 2	Session 5B: Embedded Systems 2
	18:00	Banquet (Crowne Plaza - ANA Niigata, 15 min walk from TOKI MESSE)	
September 1 Fri	9:00	Session 6: Real-Time Systems 3	NVMSA 6: Tool and System Software (9:30-)
	10:30	Break	
	11:00	Session 7A: IoT, CPS, and Emerging Applications 2	Session 7B: Short Presentations
	12:15	Closing	

August 30 (Wed) 9:00 - 10:30, Room 302 Opening and Keynote

 Personalized Predictions of Clinical Outcomes and Treatment Response with Wearables and Machine Learning Chenyang Lu (AIM Institute, Washington University in St. Louis)

August 30 (Wed) 11:00 - 12:30, Room 302

Session 1: Best Paper Candidates

Chairs: Nan Guan (City University of Hong Kong) and Hiroyuki Tomiyama (Ritsumeikan University)

- Timing Analysis of Embedded Software Updates
 Ahmed El Yaacoub (Uppsala University), Luca Mottola (Politecnico di Milano & Uppsala University), Thiemo Voigt (Uppsala University & RISE), Philipp Rümmer (University of Regensburg & Uppsala University)
- PELSI: Power-Efficient Layer-Switched Inference
 Ehsan Aghapour (University of Amsterdam), Dolly Sapra (University of Amsterdam), Andy D. Pimentel (University of Amsterdam), Anuj Pathania (University of Amsterdam)
- Self-supervised multi-LiDAR object view generation using single LiDAR
 Yi-Hung Kuo (National Taiwan University, Taiwan), Chi-Sheng Shih (National Taiwan University, Taiwan), Hsiang-Jui Lin (National Taiwan University, Taiwan), Shih-Hao Hung (National Taiwan University, Taiwan; Mohamed bin Zayed University of Artificial Intelligence, Abu Dhabi)

August 30 (Wed) 13:30 - 15:00, Room 302

Session 2: Real-Time Systems 1

Chair: Pablo Gutiérrez Peón (TTTech Auto AG)

- Hardware Acceleration with Zero-Copy Memory Management for Heterogeneous Computing
 Oren Bell (Washington University at St Louis, USA), Chris Gill (Washington University at St Louis, USA), Xuan Zhang (Washington University
 at St Louis, USA)
- BandWatch: A System-Wide Memory Bandwidth Regulation System for Heterogeneous Multicore
 Eric Seals (University of Kansas), Michael Bechtel (University of Kansas), Heechul Yun (University of Kansas)
- IRQ Coloring and the Subtle Art of Mitigating Interrupt-generated Interference
 Diogo Costa (Universidade do Minho, Portugal), Luca Cuomo (Huawei Pisa Research Center, Italy), Daniel Oliveira (Universidade do Minho,
 Portugal), Ida Maria Savino (Huawei Pisa Research Center, Italy), Bruno Morelli (Huawei Pisa Research Center, Italy), José Martins
 (Universidade do Minho, Portugal), Alessandro Biasci (Huawei Pisa Research Center, Italy), Sandro Pinto (Universidade do Minho, Portugal)

August 30 (Wed) 15:30 - 17:00, Room 302

Session 3: Embedded Systems 1

Chair: Shuo-Han Chen (National Taipei University of Technology)

- Memory-Aware DVFS Governing Policy for Improved Energy-Saving in the Linux Kernel
 Philkyue Shin (Seoul National University, Republic of Korea), Dahun Kim (Seoul National University, Republic of Korea), Seongsoo Hong
 (Seoul National University, Republic of Korea)
- TEEVseL4: Trusted Execution Environment for Virtualized seL4-based Systems
 Borna Blazevic (Technical University of Munich), Michael Peter (NIO GmbH), Mohammad Hamad (Technical University of Munich), Sebastian Steinhorst (Technical University of Munich)
- Improving Read Performance for LDPC-Based SSDs with Adaptive Bit Labeling on Vth States
 Jia-Xin Hou (National Yang Ming Chiao Tung University, Taiwan), Li-Pin Chang (National Yang Ming Chiao Tung University, Taiwan)

August 30 (Wed) 17:30-19:30, Room 201

Poster Presentations

- Parameter Optimization for EDF-Like Scheduling of Self-Suspending Tasks
 Mario Günzel (TU Dortmund University), Jian-Jia Chen (TU Dortmund University)
- Response-time Analysis of Fault-Tolerant Hard Real-Time Systems under Global Scheduling
 Pourya Gohari (Eindhoven University of Technology (TU/e), The Netherlands), Jeroen Voeten (Eindhoven University of Technology (TU/e),
 The Netherlands), Mitra Nasri (Eindhoven University of Technology (TU/e), The Netherlands)
- Investigating Requirements and Expectations of Wearable Telexistence Robotic Systems
 Abdullah Iskandar (Waseda University, Japan), Mohammed Al-Sada (Qatar University, Qatar), Osama Halabi (Qatar University, Qatar), Tatsuo Nakajima (Waseda University, Japan)
- Designing a 3D Human Pose Estimation-based VR Tennis Training System Yuichiro Hiramoto (Waseda University, Japan), Mohammed Al-Sada (Qator University, Qatar), Tatsuo Nakajima (Waseda University, Japan)
- Visualization System Using Virtual Reality for Work Improvement in Small and Medium Manufacturing Industries
 Shogo Ogihara (Toyama Prefectural University, Japan), Tetsuro Kato (IoTry, Inc., Japan), Takafumi Kawasaki (Toyama Prefectural University, Japan), Yuki Okura (Toyama Prefectural University, Japan)
- A Robot Arm-based Haptic Feedback System for Augmented Reality Applications
 Daichi Watanabe (Waseda University, Japan), Mohammed Al-Sada (Qatar University, Qatar), Kodai Fuchino (Waseda University, Japan),
 Tatsuo Nakajima (Waseda University, Japan)
- Make PLOR Real-time and Fairly Decentralized Tung Nguyen (Keio University, Japan), Hideyuki Kawashima (Keio University, Japan)
- T2Remoter: a Remote Table Tennis Coaching System Combining VR and Robotics Kodai Fuchino (Waseda University, Japan), Mohammed Al-Sada (Qatar University, Qatar), Tatsuo Nakajima (Waseda University, Japan)
- Extending ROS Transform Library for Massive Autonomous Robots Yushi Ogiwara (Keio University), Hideyuki Kawashima (Keio University)
- Analyzing Digital Services across the Compute Continuum using iFogSim
 Saeedeh Baneshi (University of Amsterdam, The Netherlands), Ana Lucia Varbanescu (University of Amsterdam, The Netherlands), Anuj
 Pathania (University of Amsterdam, The Netherlands), Benny Akesson (University of Amsterdam; TNO-ESI, The Netherlands), Andy Pimentel
 (University of Amsterdam, The Netherlands)
- ILP based Mapping for Elastic CGRAs
 Makoto Saito (The University of Tokyo, Japan), Takuya Kojima (The University of Tokyo, Japan), Hideki Takase (The University of Tokyo, Japan),
 Hiroshi Nakamura (The University of Tokyo, Japan)

August 31 (Thu) 11:00 - 12:30, Room 302

Session 4: IoT, CPS, and Emerging Applications 1

Chair: Tadaaki Tanimoto (Sony Semiconductor Solutions)

- Shared Dictionary Compression for Efficient Mobile Software Distribution
 Jinheng Li (City University of Hong Kong, China), Qiao Li (Xiamen University, China), Qingan Li (Wuhan University, China), Chun Jason Xue
 (City University of Hong Kong, China)
- A Comparison of Transformer and AR-SI Oracle For Control-CPS Software Fault Localization
 Shiyu Zhang (The Hong Kong Polytechnic University, China), Wenxia Liu (Nanjing University, China), Qixin Wang (The Hong Kong Polytechnic University, China), Lei Bu (Nanjing University, China), Yu Pei (The Hong Kong Polytechnic University, China)
- Accelerating Scan Transaction with Node Locking Kodai Doki (Keio University), Takashi Hoshino (Cybozu Labs, Inc.), Hideyuki Kawashima (Keio University)

August 31 (Thu) 14:00 - 15:00, Room 302 Sponsor Talk

 The Future of Computing - bits/neurons/qubits -Shintaro Yamamichi (IBM Research Semiconductors, IBM Japan Ltd.)

August 31 (Thu) 15:30 - 17:00, Room 302 Session 5A: Real-Time Systems 2

Chair: Mario Guenzel (TU Dortmund)

- LAG-based Analysis for Preemptive Global Scheduling with Dynamic Cache Allocation Yuhan Lin (Northeastern University, China), Jinghao Sun (Dalian University of Technology, China), Qingxu Deng (Northeastern University, China), Meiling Han (Nanjing University of Posts and Telecommunications, China), Shumo Wang (Northeastern University, China)
- Reducing Response-Time Bounds via Global Fixed Preemption Point EDF-like Scheduling
 Joseph Goh (University of North Carolina at Chapel Hill, USA), James H. Anderson (University of North Carolina at Chapel Hill, USA)
- Dynamic Deterministic Quality of Service Model with Behavior-Adaptive Latency Bounds Robin Laidig (University of Stuttgart, Germany), Frank Dürr (University of Stuttgart, Germany), Kurt Rothermel (University of Stuttgart, Germany), Stefan Wildhagen (University of Stuttgart, Germany), Frank Allgöwer (University of Stuttgart, Germany)

August 31 (Thu) 15:30 - 17:00, Room 301 Session 5B: Embedded Systems 2

Chair: Li-Pin Chang (National Yang Ming Chiao Tung University)

- RDMA-Based Deterministic Communication Architecture for Autonomous Driving
 Hazem Abaza (Huawei Munich Research Center; Technische Universität Dortmund, Germany), Abhinaba Habishyashi (Technische
 Universität Dresden, Germany), Debayan Roy (Technische Universität Dortmund, Germany), Andrea Bastoni (Technische Universität
 München, Germany), Zain A. H. Hammadeh (German Aerospace Center, Germany), Shiqing Fan (Technische Universität Dortmund,
 Germany), Selma Saidi (Huawei Munich Research Center, Germany), Sergey Tverdyshev (Technische Universität Dortmund,
 Germany)
- Machine Learning Techniques for Understanding and Predicting Memory Interference in CPU-GPU Embedded Systems
 Alessio Masola (University of Modena and Reggio Emilia, Italy), Nicola Capodieci (University of Modena and Reggio Emilia, Italy), Benjamin
 Rouxel (University of Modena and Reggio Emilia, Italy), Giorgia Franchini (University of Modena and Reggio Emilia, Italy),
 (University of Modena and Reggio Emilia, Italy)
- Traffic Injection Regulation Protocol based on free-time slots requests Yilian Ribot González (CISTER Research Centre, ISEP, IPP, Portugal), Geoffrey Nelissen (Eindhoven University of Technology, The Netherlands), Eduardo Tovar (CISTER Research Centre, ISEP, IPP, Portugal)

September 1 (Fri) 9:00 - 10:30, Room 302

Session 6: Real-Time Systems 3

Chair: Diogo Costa (Universidade do Minho)

- Time-Sensitive Networking's Scheduled Traffic Implementation on IEEE 802.11 COTS Devices
 Pablo Gutiérrez Peón (TTTech Computertechnik AG, Austria; Mälardalen University, Sweden), Paraskevas Karachatzis (TTTech
 Computertechnik AG, Austria), Wilfried Steiner (TTTech Computertechnik AG, Austria), Elisabeth Uhlemann (Mälardalen University, Sweden)
- Advanced Modeling and Analysis of Individual and Combined TSN Shapers in OMNeT++
 Rubi Debnath (Technical University of Munich, Germany), Philipp Hortig (Technical University of Munich, Germany), Luxi Zhao (Beihang
 University, China), Sebastian Steinhorst (Technical University of Munich, Germany)
- DDS Implementations as Real-Time Middleware A Systematic Evaluation Vincent Bode (Technical University of Munich, Germany), Carsten Trinitis (Technical University of Munich, Germany), Martin Schulz (Technical University of Munich, Germany), David Buettner (Siemens AG, Germany), Tobias Preclik (Siemens AG, Germany)

September 1 (Fri) 11:00 - 12:00, Room 302

Session 7A: IoT, CPS, and Emerging Applications 2

Chair: Seongsoo Hong (Seoul National University)

- Safety-Aware Implementation of Control Tasks via Scheduling with Period Boosting and Compressing
 Shengjie Xu (The University of North Carolina at Chapel Hill, USA), Bineet Ghosh (The University of North Carolina at Chapel Hill, USA),
 Clara Hobbs (The University of North Carolina at Chapel Hill, USA), P.S. Thiagarajan (The University of North Carolina at Chapel Hill, USA);
 Chennai Mathematical Institute, India), Prachi Joshi (General Motors, USA), Samarjit Chakraborty (The University of North Carolina at Chapel
 Hill, USA)
- Timing-Aware ROS2 Architecture and System Optimization Harun Teper (TU Dortmund University, Germany), Tobias Betz (TU Munich, Germany), Georg von der Brüggen (TU Dortmund University, Germany), Kuan-Hsun Chen (University of Twente, The Netherlands), Johannes Betz (TU Munich, Germany), Jian-Jia Chen (TU Dortmund University, Germany)

September 1 (Fri) 11:00 - 12:15, Room 301

Session 7B: Short Presentations

Chair: Toshiaki Aoki (Japan Advanced Institute of Science and Technology)

- An Integrated Real-Time and Security Scheduling Framework for CPS
 Kriti Kansal (Virginia Tech), Thidapat Chantem (Virginia Tech), Nathan Fisher (Wayne State University), Sanjoy Baruah (Washington University in St. Louis)
- Efficient Response Time Bound for Typed DAG Tasks
 Qingqiang He (The Hong Kong Polytechnic University, China), Yongzheng Sun (The Hong Kong Polytechnic University, China), Mingsong
 Lv (The Hong Kong Polytechnic University, China), Weichen Liu (Nanyang Technological University, Singapore)
- Parameterized Workload Adaptation for Fork-Join Tasks with Dynamic Workloads and Deadlines
 Marion Sudvarg (Washington University in St. Louis), Jeremy Buhler (Washington University in St. Louis), Roger D. Chamberlain (Washington
 University in St. Louis), Chris Gill (Washington University in St. Louis), Jim Buckley (Washington University in St. Louis), Wenlei Chen
 (University of Minnesota)
- Improved Bus Contention Analysis for 3-Phase Tasks
 Jatin Arora (CISTER, ISEP, Portugal), Syed Aftab Rashid (CISTER, ISEP; VORTEX CoLab, Portugal), Geoffrey Nelissen (Eindhoven University of Technology, The Netherlands), Cláudio Maia (CISTER, ISEP, Portugal), Eduardo Tovar (CISTER, ISEP, Portugal)
- Accelerating The Permute And N-gram Operations For Hyperdimensional Learning in Embedded Systems
 Pere Vergés (University of California), Igor Nunes (University of California), Mike Heddes (University of California), Tony Givargis (University
 of California), Alexandru Nicolau (University of California)