



Published on DATE 2018 (<https://past.date-conference.com/date18>)

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W03 New Platforms for Future Cars: Current and Emerging Trends

Agenda

Time	Label	Session
08:15	W03.1	Welcome and Opening Organisers: Selma Saidi, Hamburg University of Technology, DE Muhammad Shafique, Vienna University of Technology (TU Wien), AT
08:30	W03.2	Session 1 : From Advanced Data Sensing to Smart Processing in Autonomous Cars
08:30	W03.2.1	Processing needs for next generation 3D LIDAR Michael Kiehn, Ibeo Automotive Systems GmbH, DE
09:00	W03.2.2	Automotive Multiprocessor ADAS Chip Design in 22nm FDSOI Technology Jens Benndorf, Dream Chip Technologies, DE
09:30	W03.2.3	Parking with a Worms Brain Radu Grosu, TU Wien, AT
10:00	W03.3	Coffee Break
10:30	W03.4	Session 2 : Current Practices in Hardware and Software Automotive Design
10:30	W03.4.1	APP4MC: An Open Source Platform for Automotive Multi-Core Systems Dirk Ziegenbein, Robert Bosch GmbH, DE
11:00	W03.4.2	Reliable Heterogenous Multi-Core Platforms - Cyber-Physical Systems in Embed- ded: Automotive, Industry 4.x , Avionics - Juergen Becker, KIT - Karlsruher Institut für Technolgie, DE
11:30	W03.4.3	Short Presentations 11h30: Driving Against the Memory Wall: The Role of Memory for Autonomous Driving Matthias Jung and Norbert Wehn, TU Kaiserslautern, DE 11h40: Towards a Predictable Execution Model for Heterogeneous Systems-on-a-Chip" Andrea Marongiu, University of Bologna, IT 11h50: Architecture Exploration for Safety-Critical Systems Alexander Diewald, Simon Barner and Sebastian Voss, fortiss GmbH, DE
12:00	W03.5	Lunch Break
13:00	W03.6	Session 3 : Communication and Software Integration in Automotive Systems
13:00	W03.6.1	Highly-Integrated E/E Architectures by means of Vehicle-Wide Virtualization Wilfried Steiner, TTTech Computertechnik AG, AT
13:30	W03.6.2	System Level Logical Execution Time (LET) Rolf Ernst, TU Braunschweig, IDA, DE
14:00	W03.6.3	Short Presentations 14h00: An Efficient and Streamlined Open Source Implementation of the LET Paradigm Matthias Beckert and Rolf Ernst, TU Braunschweig, DE 14h10: Big Data Analytics for Smart Cities: The H2020 CLASS Project Eduardo Quinones ⁽¹⁾ , Marko Bertogna ⁽²⁾ , Erez Hadad ⁽³⁾ , Ana Juan Ferrer ⁽⁴⁾ , Luca Chiantore ⁽⁵⁾ and Alfredo Reboa ⁽⁶⁾ , ⁽¹⁾ Barcelona Supercomputing Center, ES, ⁽²⁾ Univ. of Modena, IT, ⁽³⁾ IBM, IL, ⁽⁴⁾ ATOS ES, ⁽⁵⁾ City of Modena, IT ⁽⁶⁾ Maserati, IT 14h20: WCET Analysis of Automotive Buses using WCC Dominic Oehlert and Heiko Falk, TU Hamburg, DE
14:30	W03.7	Coffee Break
15:00	W03.8	Session 4: Security as a Pillar for Automotive Functional Safety
15:00	W03.8.1	Secure CAN Communication for Improved Functional Safety - a New Approach Without the Challenges of Using Cryptography Bernd Elend, NXP Semiconductors, DE
15:30	W03.8.2	Cyber Security Paranoia: a Threat for Functional Safety? Albrecht Mayer, Infineon Technologies, DE

16:00 W03.9 **Short Presentations: New Platforms for Deep Learning**

16h00: Embedded GPUs in Future Automated Cars

Joerg Fickenscher⁽¹⁾, Frank Hannig⁽¹⁾, Mohamed Essayed Bouzouraa⁽²⁾ and Jürgen Teich⁽¹⁾

⁽¹⁾Friedrich-Alexander-Universität Erlangen-Nürnberg, DE ⁽²⁾ AUDI AG, DE

16h10: Convolutional Neural Networks on Embedded Automotive Platforms: a Qualitative Comparison

Paolo Burgio, Gianluca Brilli, Antonio Marra and Marko Bertogna, University of Modena, IT

16h20: Road Extraction and Object Recognition for Autonomous Cars

Smail Niar⁽¹⁾, Mohamed Yazid Laachachi⁽¹⁾, Mohamed Ayoub Neggaz⁽¹⁾, Ihsen Alouani⁽¹⁾, Hasan Yantir⁽²⁾, Abdelmalik Taleb-Ahmed⁽¹⁾, Fadi Kurdahi⁽²⁾ and Ahmed Eltawil⁽²⁾

⁽¹⁾University of Valenciennes, FR, ⁽²⁾University of California, Irvine, US

16:30 W03.10 **Interactive Discussion: Posters and Demos**

17:30 W03.11 **Closing Session**

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