Jan Skodzik

Dr.-Ing. Jan Skodzik

Forschungsgebiete - Dissertation

- Peer-to-Peer-Technologie in der Automatisierung

Projekte

- Polleon
- Time-Trigger-Event System für das Wendelstein7-X Experiment (MPI) Version 2
- Entwurf von integrierten dezentralisierten IT-Infrastrukturen

Lehrveranstaltungen

- Laborpraktikum: Assemblerprogrammierung von Mikrocontrollern
- Laborpraktikum: Simulation des realen IC-Verhaltens
- Seminar: Selected Topics in VLSI Design
- Seminar: Hochintegrierte Systeme 2
- Seminar: Digitale Systeme

Publikationen

Peter Danielis, Jan Skodzik, Vlado Altmann, Frank Golatowski, Dirk Timmermann:
DuDE-Cloud: A Resilient High Performance Cloud
In Proceedings of 9th International Workshop on Service-Oriented Cyber-Physical Systems in Converging Networked Environments (SOCNE) at 20th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'2015), pp. 28-34, ISBN: 978-1-4673-7929-8/15, Luxemburg, Luxemburg, September 2015

Peter Danielis, Vlado Altmann, Jan Skodzik, Eike Bjoern Schweissguth, Frank Golatowski, Dirk Timmermann:
Emulation of SDN-Supported Automation Networks
In Proceedings of the 20th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2015), pp. 1-8, ISBN: 978-1-4673-7929-8/15, Luxemburg, Luxemburg, September 2015

Peter Danielis, Vlado Altmann, Jan Skodzik, Tim Wegner, Achim Koerner, Dirk Timmermann: **P-DONAS: A P2P-based Domain Name System in Access Networks**, ACM Trans. Internet Technol., New York, NY, USA, Juli 2015

Peter Danielis, Jan Skodzik, Vlado Altmann, Benjamin Kappel, Dirk Timmermann:
Extensive Analysis of the Kad-based Distributed Computing System DuDE
In Proceedings of the IEEE Symposium on Computers and Communications (ISCC 2015), Larnaka, Zypern, Juli 2015

Schacht Jörg, Skodzik Jan:
Multifunction-Timing Card ITTEV2 for CoDaC Systems of Wendelstein 7-X
In IEEE Transactions on Nuclear Science, Vol. PP, Nr. 99, pp. 1-8, ISSN: 0018-9499, DOI: 10.1109/TNS.2015.2425895, USA, Juni 2015

Jan Skodzik, Peter Danielis, Vlado Altmann, Eike Björn Schweißguth, Dirk Timmermann:
PSP-Auto: An DHT-based Storage and Retrieve System for Automation Scenarios
9th Annual IEEE International Systems Conference (IEEE SysCon), pp. 853-858, ISBN: 978-1-4799-5927-3, Vancouver, Kanada, April 2015

Jan Skodzik, Peter Danielis, Vlado Altmann, Björn Konieczek, Eike Björn Schweißguth, Frank Golatowski, Dirk Timmermann:
CoHaRT: Deterministic Transmission of Large Data Amounts using CoAP and Kad
IEEE International Conference on Industrial Technology 2015 (IEEE ICIT), pp. 1851-1856, ISBN: 978-1-4799-7799-4, Sevilla, Spanien, März 2015

Peter Danielis, Jan Skodzik, Vlado Altmann, Lennard Lender, Dirk Timmermann:
Dynamic Search Tolerance at Runtime for Lookup Determinism in the DHT-based P2P Network Kad
IEEE Consumer Communications & Networking Conference (CCNC), pp. 357-362, ISBN: 978-1-4799-6389-8, Las Vegas, USA, Januar 2015

Peter Danielis, Jan Skodzik, Vlado Altmann, Eike Björn Schweissguth, Frank Golatowski, Dirk Timmermann, Jörg Schacht:
Survey on Real-Time Communication Via Ethernet in Industrial Automation Environments
19th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'2014), pp. 1-8, ISBN: 978-1-4799-4846-8, Barcelona, Spanien, September 2014

Jan Skodzik, Vlado Altmann, Peter Danielis, Moritz Koal, Dirk Timmermann:
An Optimized WS-Eventing for Large-Scale Networks
8th International Workshop on Service-Oriented Cyber-Physical Systems in Converging Networked Environments (SOCNE), pp. 1-6, ISBN: 978-1-4799-4846-8, Barcelona, Spanien, September 2014

Vlado Altmann, Jan Skodzik, Peter Danielis, Johannes Müller, Frank Golatowski, Dirk Timmermann:
A DHT-based Scalable Approach for Device and Service Discovery
12th IEEE International Conference on Embedded and Ubiquitous Computing (EUC14), pp. 97-103, ISBN: 978-0-7695-5249-1, Mailand, Italien, August 2014

Vlado Altmann, Jan Skodzik, Peter Danielis, Frank Golatowski, Dirk Timmermann:
Real-Time Capable Hardware-based Parser for Efficient XML Interchange
9th IEEE/IET International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP14), pp. 415-420, ISBN: 978-1-4799-2581-0, Manchester, UK, Juli 2014

Jan Skodzik, Vlado Altmann, Peter Danielis, Arne Wall, Dirk Timmermann:
A Kad Prototype for Time Synchronization in Real-Time Automation Scenarios
World Telecommunications Congress 2014, pp. 1-6, ISBN: 978-3-8007-3602-7, Berlin, Deutschland, Juni 2014

Jan Skodzik, Peter Danielis, Vlado Altmann, Dirk Timmermann:
HaRTKad: A Hard Real-Time Kademlia Approach
11th IEEE Consumer Communications & Networking Conference (CCNC), pp. 309-314, DOI:10.1109/CCNC.2014.6866588 , ISBN: 978-1-4799-2356-4, Las Vegas, USA, Januar 2014

H.-S. Bosch, Jan Skodzik, Dirk Timmermann, et. al.:
Technical challenges in the construction of the steady-state Stellarator Wendelstein 7-X
In Journal Nuclear Fusion (IAEA 2013), Vol. 53, 16pp, DOI: 10.1088/0029-5515/53/12/126001, Wien, Österreich, November 2013

Jan Skodzik, Peter Danielis, Vlado Altmann, Dirk Timmermann:
Extensive Analysis of a Kad-based Distributed Storage System for Session Data
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Vlado Altmann, Peter Danielis, Jan Skodzik, Frank Golatowski, Dirk Timmermann:
Optimization of Ad Hoc Device and Service Discovery in Large Scale Networks
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Jan Skodzik, Peter Danielis, Vlado Altmann, Dirk Timmermann:
Time Synchronization in the DHT-based P2P Network Kad for Real-Time Automation Scenarios
2nd IEEE WoWMoM Workshop on the Internet of Things: Smart Objects and Services (IoT-SoS) 2013, pp. 1-6, DOI: 10.1109/WoWMoM.2013.6583490, ISBN: 978-1-4673-5827-9, Madrid, Spain, Juni 2013

Jan Skodzik, Vlado Altmann, Benjamin Wagner, Peter Danielis, Dirk Timmermann:
A Highly Integrable FPGA-Based Runtime-Configurable Multilayer Perceptron
27th IEEE International Conference on Advanced Information Networking and Applications (AINA-2013), pp. 429-436, ISSN:1550-445X, DOI: 10.1109/AINA.2013.19, ISBN: 978-1-4673-5550-6, Barcelona, Spanien, März 2013

Vlado Altmann, Jens Rohrbeck, Jan Skodzik, Peter Danielis, Dirk Timmermann, Maik Rönnau, Matthias Ninnemann:
SWIFT: A Secure Web Domain Filter in Hardware
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Investigation of the Use of Embedded Web Services in Smart Metering Applications
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The Secure Access Node Project: A Hardware-Based Large-Scale Security Solution for Access Networks
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Jan Skodzik, Peter Danielis, Vlado Altmann, Jens Rohrbeck, Dirk Timmermann, Thomas Bahls, Daniel Duchow:
DuDE: A Distributed Computing System using a Decentralized P2P Environment Folien
36th IEEE LCN, 4th International Workshop on Architectures, Services and Applications for the Next Generation Internet, pp. 1048-1055, ISSN: 0742-1303: DOI: 10.1109/LCN.2011.6115162 , ISBN: 978-1-61284-926-3, Bonn, Deutschland, Oktober 2011

Jan Skodzik, Peter Danielis, Vlado Altmann, Jens Rohrbeck, Dirk Timmermann, Thomas Bahls, Daniel Duchow:
DuDE: A Prototype for a P2P-based Distributed Computing System Folien
36th IEEE LCN, 4th International Workshop on Architectures, Services and Applications for the Next Generation Internet, Bonn, Deutschland, Oktober 2011

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Impacts of Improved Peer Selection on Internet Traffic in BitTorrent Networks Folien
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DATE University Booth, Dresden, Deutschland, März 2010

Peter Danielis, Stephan Kubisch, Harald Widiger, Jens Rohrbeck, Vladyslav Altmann, Jan Skodzik, Dirk Timmermann, Thomas Bahls, Daniel Duchow:
Trust-by-Wire in Packet-Switched IPv6 Networks: Tools and FPGA Prototype for the IPclip System
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Kontakt

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