



OTTO VON GUERICKE  
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INF

FAKULTÄT FÜR  
INFORMATIK

## Publikationsbericht 2012

Institut für Technische und  
Betriebliche Informationssysteme

## INSTITUT FÜR TECHNISCHE UND BETRIEBLICHE INFORMATIONSSYSTEME

Universitätsplatz 2, 39106 Magdeburg  
Tel. +49 (0)391 67 58665 Fax +49 (0)391 67 12020

### 1. Leitung

Prof. Dr.-Ing. Andreas Nürnberger (geschäftsführende Leitung)  
Prof. Dr. rer. nat. Gunter Saake  
Prof. Dr. Klaus Turowski  
Dr. Veit Köppen  
Dipl.-Wirtsch.-Inf. Dirk Dreschel  
Dipl.-Ing. Fred Kreutzmann

### 2. Hochschullehrer

Prof. Dr. rer. pol. Hans-Knud Arndt  
Prof. Dr.-Ing. Jana Dittmann  
Prof. Dr.-Ing. Andreas Nürnberger  
Jun.-Prof. Dr. Frank Ortmeier  
Prof. Dr.-Ing. Georg Paul  
Prof. Dr. rer. nat. Gunter Saake  
Prof. Dr.-Ing. Thomas Schulze  
Prof. Dr. rer. nat. Myra Spiliopoulou  
Prof. Dr. Klaus Turowski

### 3. Veröffentlichungen

#### Begutachtete Zeitschriftenaufsätze

##### Ahmed, Farag A.; Nürnberger, Andreas

Literature review of interactive cross language information retrieval tools  
In: The International Arab Journal of Information Technology. - Zarq ': Zarqa Private University, Bd. 9.2012, 5, insges. 8 S.; [... weitere Infos](#); 2012

##### Arndt, Hans-Knud; Jacob, Stephan

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##### Czarnecki, Christian; Spiliopoulou, Myra

A holistic framework for the implementation of a next generation network  
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**Feigenspan, Janet; Kästner, Christian; Apel, Sven; Liebig, Jörg; Schulze, Michael; Dachselt, Raimund; Papendieck, Maria; Leich, Thomas; Saake, Gunter**

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In: Empirical software engineering. - Dordrecht [u.a.]: Springer Science + Business Media B.V, insges. 47 S., 2012;

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**Gossen, Tatiana; Hempel, Julia; Nürnbergger, Andreas**

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**Grebhahn, Alexander; Broneske, David; Schäler, Martin; Schröter, Reimar; Köppen, Veit; Saake, Gunter**

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**Günther, Sebastian; Sunkle, Sagar**

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**Halkidi, Maria; Spiliopoulou, Myra; Pavlou, Aikaterini**

A semi-supervised incremental clustering algorithm for streaming data

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**Haun, Stefan; Gossen, Tatiana; Nürnbergger, Andreas; Kötter, Tobias; Thiel, Kilian; Berthold, Michael R.**

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**Herrmann, Enrico; Makrushin, Andrey; Dittmann, Jana; Vielhauer, Claus**

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**Hildebrandt, Mario; Dittmann, Jana; Arndt, Christian; Makrushin, Andrey**

Computer-aided fiber analysis for crime scene forensics

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**Hildebrandt, Mario; Kiltz, Stefan; Dittmann, Jana; Sturm, Jennifer; Vielhauer, Claus**

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**Hoppe, Anett; Haun, Stefan; Inthorn, Julia; Nürnberger, Andreas; Dick, Michael**

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**Ina Lindauer; Claus Vielhauer; Martin Schäler; Gunter Saake; Mario Hildebrandt**

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**Inthorn, Julia; Haun, Stefan; Hoppe, Anett; Nürnberger, Andreas; Dick, Michael**

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**Jankow, Mathias; Hildebrandt, Mario; Kiltz, Stefan; Sturm, Jennifer; Vielhauer, Claus**

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**Kästner, Christian; Apel, Sven; Thüm, Thomas; Saake, Gunter**

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**Kräzter, Christian; Qian, Kun; Dittmann, Jana**

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**Makrushin, Andrey; Hildebrandt, Mario; Dittmann, Jana; Clausing, Eric; Fischer, Robert; Vielhauer, Claus**

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**Makrushin, Andrey; Vielhauer, Claus; Hildebrandt, Mario; Dittmann, Jana; Fischer, Robert; Kiertscher, Tobias**

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**Menzel, Wiebke; Tuchscheerer, Sven; Fruth, Jana; Krätzer, Christian; Dittmann, Jana**

Design and evaluation of security multimedia warnings for children's smartphones

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**Merkel, Ronny; Dittmann, Jana; Gruhn, Stefan; Vielhauer, Claus; Bräutigam, Anja**

General fusion approaches for the age determination of latent fingerprint traces - results for 2D and 3D binary pixel feature fusion

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**Mory, Maik; Siegmund, Norbert; Blankenburg, Alexander; Saake, Gunter**

Towards interoperability of distributed interactive simulations through node-based OpenGL stream processing

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**Pocs, Matthias; Schott, Maik; Hildebrandt, Mario**

Legally compatible design of digital dactyloscopy in future surveillance scenarios

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**Qian, Kun; Schott, Maik; Schöne, Werner; Hildebrandt, Mario**

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**Saad, Farag; Nürnberg, Andreas**

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**Samland, Fred; Fruth, Jana; Hildebrandt, Mario; Hoppe, Tobias; Dittmann, Jana**

AR.Drone - security threat analysis and exemplary attack to track persons

In: Intelligent robots and computer vision XXIX: algorithms and techniques. - Bellingham, Wash. : SPIE [u.a.], 2012; [... weitere Infos](#); 2012

**Siegmund, Norbert; Kolesnikov, Sergiy S.; Kästner, Christian; Apel, Sven; Batory, Don; Rosenmüller, Marko; Saake, Gunter**

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**Siegmund, Norbert; Rosenmüller, Marko; Kästner, Christian; Giarrusso, Paolo G.; Apel, Sven; Kolesnikov, Sergiy S.**

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In: Bisociative knowledge discovery. - Berlin: Springer Berlin, S. 472-483, 2012 - (Lecture Notes in Computer Science; 7250); [... weitere Infos](#); 2012

**Thüm, Thomas; Schulze, Sandro; Pukall, Mario; Saake, Gunter; Günther, Sebastian**

Secure and customizable data management for automotive systems - a feasibility study

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### **Winsemann, Thorsten; Köppen, Veit; Saake, Gunter**

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### **Nicht begutachtete Zeitschriftenaufsätze**

#### **Schäler, Martin; Schulze, Sandro; Grebhahn, Alexander; Köppen, Veit; Lübcke, Andreas; Saake, Gunter**

Techniken zur forensischen Datenhaltung

In: Magdeburg: FIN, 2012; Online-Ressource (PDF-Datei: III, 57 S.) - (Technical Report / Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik; 2012,05); [... weitere Infos](#); 2012

#### **Thüm, Thomas; Apel, Sven; Kästner, Christian; Kuhlemann, Martin; Schaefer, Ina; Saake, Gunter**

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In: Magdeburg: FIN, 2012; Online-Ressource (PDF-Datei: 24 S.) - (Technical Report / Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik; 2012,02); [... weitere Infos](#); 2012

### **Buchbeiträge**

#### **Arndt, Christian; Krätzer, Christian; Vielhauer, Claus**

First approach for a computer-aided textile fiber type determination based on template matching using a 3D laser scanning microscope

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#### **Arndt, Hans-Knud**

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In: EnviroInfo 2012; 1: Core application areas. - Aachen: Shaker, S. 1-6; 2012

#### **Arndt, Hans-Knud; Jacob, Stephan**

Ein Ordnungsrahmen zur IKT gestützten Analyse von ökologischen Anforderungen

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#### **Birkmeier, Dominik; Neubert, Christian; Buckl, Sabine; Overhage, Sven; Gehlert, Sabine; Roth, Sascha; Matthes, Florian; Schweda, Christian M.; Turowski, Klaus**

The role of services in governmental enterprise architectures - the case of the German Federal Government

In: Enterprise architecture for connected e-government. - Hershey, PA: Information Science Reference, S. 262-287, 2012; 2012

#### **Bosse, Sascha; Krull, Claudia; Horton, Graham**

Supervised training of conversive hidden non-markovian models - increasing usability for gesture recognition

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106-111, 2012

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**Breß, Sebastian; Beier, Felix; Rauhe, Hannes; Schallehn, Eike; Sattler, Kai-Uwe; Saake, Gunter**

Automatic selection of processing units for coprocessing in databases

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**Clausing, Eric; Krätzer, Christian; Dittmann, Jana; Vielhauer, Claus**

A first approach for the contactless acquisition and automated detection of toolmarks on pins of locking cylinders using 3D confocal microscopy

In: MM&Sec'12. - New York, NY: ACM, S. 47-56, 2012; ... [weitere Infos](#)

Kongress: MM 14 (Coventry, UK): 2012.09.06-07; 2012

**Czarnecki, Christian; Winkelmann, Axel; Spiliopoulou, Myra**

Transformation in Telecommunication - Analyse und Clustering von Real-life Projekten

In: Multikonferenz Wirtschaftsinformatik 2012. - Berlin: Gito, S. 985-997; ... [weitere Infos](#)

Kongress: MKWI; (Braunschweig): 2012.02.29-03.02; 2012

**Engelhardt, Frank**

Umsetzung eines Online-SLAM-Verfahrens auf der Roboterplattform Volksbot-Lab

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**Feigenspan, Janet; Batory, Don; Riche, Taylor**

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**Frey, Tim; Köppen, Veit**

Exploring software variance with hypermodelling - an exemplary approach

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**Gerber, Sven; Gerber, Sandra; Krüger, Peter; Arndt, Hans-Knud**

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**Gossen, Tatiana; Kotzyba, Michael; Nürnberger, Andreas**

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Kongress: ICPRAM 2012; 1 (Vilamoura, Portugal): 2012.02.06-08; 2012

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**Habermaier, Axel; Güdemann, Matthias; Ortmeier, Frank; Reif, Wolfgang; Schellhorn, Gerhard**

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In: Railway safety, reliability, and security. - Hershey PA: Information Science Reference, insges. 45 S., 2012; 2012

**Hoppe, Tobias; Kuhlmann, Sven; Kiltz, Stefan; Dittmann, Jana**

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Kongress: International Conference SAFECOMP; 31 (Magdeburg): 2012.09.25-28; 2012

**Jamous, Naoum; Alwafaie, Rami; Dahma, Miguel Albadawi**

Corporate Environmental Management Information Systems (CEMIS) - sustainable reporting tools for SMEs

In: EnviroInfo 2012; 2: Open Data and industrial ecological management. - Aachen: Shaker, S. 657-664; 2012

**Jamous, Naoum; Dahma, Samir Al Badawi; Isaac, Albert**

Green logistics' tool as Corporate Environmental Management Information System (CEMIS)

In: EnviroInfo 2012; 2: Open Data and industrial ecological management. - Aachen: Shaker, S. 707-717; 2012

**Jamous, Naoum; Kramer, Frederik; Turowski, Klaus; Arndt, Hans-Knud**

Sustainability data integration - a prototypical implementation of a light-weight information system component

In: EnviroInfo 2012; 2: Open Data and industrial ecological management. - Aachen: Shaker, S. 685-694; 2012

**Kärgel, Rainer; Hildebrandt, Mario; Dittmann, Jana**

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In: MM&Sec'12. - New York, NY: ACM, S. 133-138, 2012; [... weitere Infos](#)

Kongress: MM 14 (Coventry, UK): 2012.09.06-07; 2012

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Beweissichere Daten in der digitalisierten Forensik

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Challenges in contact-less latent fingerprint processing in crime scenes - review of sensors and image processing investigations

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