PROGRAM MoMM2013

	Monday, 2 December 2013
08:00	**REGISTRATION** *FH Technikum Wien, Höchstädtplatz 5, 1200 Vienna, Austria*
09.00	**CONFERENCE OPENING**
09:30	**KEYNOTE I** **Interoperability and Semantics – a reoccurring Issue?** **Prof. Erich J. Neuhold** **Room: HS F0.01**
10.30	COFFEE BREAK

11:00	**SESSION 1: Context** **Room: HS F4.03** **Chair: Beniamino Di Martino**	**SESSION 2: Networking** **Room: HS F4.04** **Chair: Ahmed Al-Dubai**	**SESSION 3: Security** **Room: HS F4.06** **Chair: Toshikazu Nishimura**
	Analysis of a context-aware recommender system model for smart urban environment *Charles Gouin-Vallerand, Jesus Alberto-Montero De La Cruz* *Télé-Université du Québec* *Canada*	Channel estimation algorithms for MIMO-OFDM systems (LTE standard) *Abdelhamid Laraki, Driss El Ouadghiri, Abdellah Jamali* *My Ismail University-Meknes* *Hassan 1st University-Settat, Morocco*	Digital Identity based VoIP Authentication Mechanism *Andreas Plies, Michael Massoth Ingo Stengel* *Hochschule Darmstadt, University of Applied Sciences, Germany* *Plymouth University, UK*
	Moving Beyond Weak Identifiers for Proxemic Interaction *Henrik Sørensen, Jesper Kjeldskov* *Aalborg University* *Denmark*	Improvement of QoS in IMS network using network coding *Hamid Allouch, Mostafa Belkasmi* *University Mohamed V SUISSI,* *ENSIAS, Morocco*	Mobile Call Authentication using Near Field Communication-based Smart Cards for Proof of Identity towards a Company *Robin Acker, Andreas Plies, Michael Massoth, Ralf S. Mayer, Torsten Wiens* *Hochschule Darmstadt - University of Applied Sciences, Germany*
	Reactive Behaviors of Mobile Robots in a Museum Exhibit *Takashi Kiriyama, Tomohiro Akagawa, Taichi Inoue, Ayaka Yamamoto* *Tokyo University of the Arts* *Japan (Demo)*	Dynamic Subcarrier-based Resource Allocation Algorithm in Wireless Networks *Vitomir Seba, Borivoj Modlic , Gordan Sisul* *Faculty of Electrical Engineering and Computing, Croatia*	Requirements for an Open Ecosystem for Embedded Tamper Resistant Hardware on Mobile Devices *Michael Hölzl, René Mayrhofer, Michael Roland* *University of Applied Sciences Upper Austria, Austria (Demo)*
12:00	LUNCH		

13:00	**SESSION 4: Context** **Room: HS F4.03** **Chair name: Venet Osmani**	**SESSION 5: Networking** **Room: HS F4.04** **Chair: Svetlana Boudko**	**SESSION 6: Security** **Room: HS F4.06** **Chair: Amin Anjomshoaa**
	Implementation of Context-Aware Item Recommendation through MapReduce Data Aggregation *Wolfgang Beer, Christian Derwein, Sandor Herramhof* *Software Competence Center Hagenberg, Austria* *Evntogram Labs GmbH, Austria*	General all-Layers combined with Efficient WLAN MAC Layer Headers Compression *David Levy, Ivan Kotuliak* *School of Computer Systems and Networks, Slovakia*	Enhancing security in mobile data networks through end user and core network cooperation *Martin Nagy, Ivan Kotuliak* *Slovak University of Technology, Slovakia*
	A Generic Context-Based Architecture for Energy-Efficient Localization on Mobile Devices	A Combined Frequency Assignment and AP Scheduling for Throughput Maximization in IEEE 802.11 WLAN *Babul Tewari, Sasthi Ghosh*	Range Face Segmentation: Face Detection and Segmentation for Authentication in Mobile Device Range Images *Rainhard Dieter Findling, Fabian*

Wolfgang Narzt
Johannes Kepler University, Austria

Leveraging RF-channel fluctuation for activity recognition

Stephan Sigg, Shuyu Shi, Felix Büsching, Yusheng Ji, Lars Wolf
TU Braunschweig, Germany
National Institute of Informatics, Japan

Image Recognition and Augmented Reality in Cultural Heritage Using OpenCV

Alba Amato, Salvatore Venticinque, Beniamino Di Martino
Second University of Naples, Italy

Personalized Music Recommendation in a Mobile Environment

Claus Schabetsberger, Markus Schedl
Johannes Kepler University, Austria
(Demo)

DroidFuzzer: Fuzzing the Android Apps with Intent-Filter Tag

Hui Ye, Shaoyin Cheng, Lanbo Zhang, Fan Jiang
University of Science and Technology of China, China
University of California, USA

Indian Statistical Institute, India

Towards Standard M2M APIs for Cloud-based Telco Service Platforms

Asma Elmangoush, Adel Al-hezmi, Thomas Magedanz
Technical University Berlin, Fraunhofer FOKUS- NGNI, Germany

A Comparative Analysis of Flooding Time Synchronization Protocol and Recursive Time Synchronization Protocol

Danish Sattar, Tarek R. Sheltami, Ashraf S. Mahmoud, Elhadi M. Shakshuki
King Fahd University of Petroleum & Mineral, Saudi Arabia
Acadia University, Canada

Contextual Geospatial Picture Understanding, Management and Visualization

Stavros Christodoulakis, Michalis Foukarakis, Chrisa Tsinaraki, Lemonia Ragia, Eleni Kanellidi
Technical University of Crete, Greece

A Weight Based Clustering Scheme for Mobile Ad hoc Networks

Abdelhak Bentaleb, Saad Harous, Abdelhak Boubetra
University of EI Bachir El Ibrahimi, Algeria
United Arab Emirates University, UAE

Wenny, Clemens Holzmann, Rene Mayrhofer
University of Applied Sciences Upper Austria, Austria

Integrated Wireless Authentication System: Sharing Satellite Communication among Multiple Organizations after Natural Disasters

Toshikazu Nishimura, Hitoshi Ogawa
Ritsumeikan University, Japan

Visualizations and Switching Mechanisms for Security Zones

Peter Riedl, Phillip Koller , Rene Mayrhofer, Andreas Möller, Marion Koelle, Matthias Kranz
UAS Upper Austria, Campus Hagenberg, Austria
Technische Universität München
Universität Passau, Germany

An Improved Reversible Data Hiding Scheme Based On Neighboring Pixel Differences

Dae-Soo Kim, Geum-Dal Park, Kee-Young Yoo
Kyungpook National University, Korea

15:00	COFFEE BREAK

15:30			

SESSION 7: Context
Room: HS F4.03
Chair: Wolfgang Beer

A System for Real-Time High-Level Geo-Information Extraction and Fusion for Geocoded Photos

Andrew Ennis, Liming Chen, Christopher Nugent, George Ioannidis, Alexandru Stan
University of Ulster, UK
IN2 Search Interfaces Development Ltd, Germany

Monitoring activity of patients with bipolar disorder using smart phones

Venet Osmani, Alban Maxhuni, Agnes Grünerbl, Paul Lukowicz, Christian Haring, Oscar Mayora
CREATE-NET, Italy
DFKI, Germany

Primer Streamer: a System to Attract Users to Interests via Images on HMD

Naoya Isoyama, Tsutomu Terad, Masahiko Tsukamoto

SESSION 8: Networking
Room: HS F4.04
Chair: Shaharuddin Salleh

Network Selection for Multicast Groups in Heterogeneous Wireless Environments

Svetlana Boudko, Wolfgang Leister
Norsk Regnesentral, Norway

Multicast Multi-hop Routing for Wireless Mesh Community Networks

Ahmed Al-Dubai, Liang Zhao
Edinburgh Napier University, United Kingdom
Hitachi (China) Research & Development Corporation, China

A learning automata-based solution to the target coverage problem in wireless sensor networks

Shaharuddin Salleh, Sara Marouf
Universiti Teknologi Malaysia, Malaysia

Application of ZigBee and RFID Technologies in Healthcare in

SESSION 9: Security
Room: HS F4.06
Chair: Delphine Christin

(Ab)using foreign VMs: Running Java Card Applets in non-Java Card Virtual Machines

Michael Roland, Josef Langer, René Mayrhofer
NFC Research Lab Hagenberg, University of Applied Sciences Upper Austria

An Analysis Of Different Approaches To Gait Recognition Using Cell Phone Based Accelerometer

Muhammad Muaaz, Rene Mayrhofer
University of Applied Sciences Upper Austria, Austria

Fingerprint Verification Through Cloud Computing

Fazal Noor, Majed Alhaisoni
University of Hail
Saudi Arabia

Extended PIN Authentication

	Kobe University, Japan **Automatic GEO-MASHUP generation of outdoor activities** *Steven Verstockt, Viktor Slavkovikj, Pieterjan De Potter , Baptist Vandersmissen, Jürgen Slowack, Rik Van de Walle* *Multimedia Lab – ELIS Department, Ghent University* *Barco NV, Belgium*	**Conjunction with the Internet of Things** *Nawaf Alharbe, Anthony Atkins, Akbar Sheikh Akbari* *Taibah University, Saudi Arabia* *Staffordshire University, United Kingdom*	**Scheme Allowing Multi-touch Key Input** *Tetsuji Takada, Yuki Kokubun* *The University of Electro-Communications, Japan*
17:00	**GROUP PHOTO**		
19:00	**WELCOME RECEPTION** *Vienna City Hall, Rathaus, 1082 Wien*		

Tuesday, 3 December 2013

09:00	**KEYNOTE II** **Ameliorating Music Recommendation** **Dr. Markus Schedl** **KEYNOTE III** **Mobile Mobility: The Road User Information Systems of the Future** **Dr.-Ing. Stefan Schulte** **Room: HS F4.22**
10:30	COFFEE BREAK

11:00	**SESSION 10: Location** **Room: HS F4.03** **Chair: Christine Bauer** Relative Location Oriented Mobile LBS *Xiao Ruowei, Wu Zhanwei, Sugiura Kazunori* *Keio University, Japan* *Shanghai Jiaotong University, China* On the Probability Distribution of Speeds derived from Positioning Data obtained by Portable Positioning Devices *Kyoung Woon On, Ha Yoon Song* *Hongik University, Korea* An indoor localization system within an IMS service infrastructure *Paolo Addesso, Mario Di Mauro, Maurizio Longo, Giovanni Della Corte, Antonluca Robustelli* *Università degli Studi di Salerno* *Laboratorio Co.Ri.Tel.* *Ericsson Telecomunicazioni S.p.A., Italy*	**SESSION 11: Networking** **Room: HS F4.04** **Chair: Rui Neves Madeira** Measurement of Inter-Frequency Small Cell in Heterogeneous Networks *Hyung-Deug Bae, Jae-Wook Shin, Pyeong-Jung Song* *ETRI, Korea* Broadband Channel Inversion and Vector Perturbation for MU-MIMO System Under Frequency Selective Fading *Tetsuki Taniguchi, Yoshio Karasawa* *The University of Electro-Communications, Japan* Hash Bit Selection Using Markov Process for Approximate Nearest Neighbor Search *Danchen Zhang, Xianglong Liu, Bo Lang* *Beihang University, China*	**SESSION 12: Apps** **Room: HS F4.06** **Chair: Chrisa Tsinaraki** Phone call translator system in real time *Yoko Iimura, Masahiro Oota, Shinya Tachimoto, Yu Kojo* *NTT DOCOMO, INC.* *Japan* A Mobile-based Multimedia System for Learning Japanese *Mohamed Hamada, Takahiro Mitsui* *University of Aizu, Japan* A Left Turn Assist Application using Wireless Vehicle-to-Vehicle Communications at Unsignalized Intersections *Hyun-Soo Seo, Chang-Jin Lee, Hyo-Un Kim, Dong-Gyu Noh, Sang-Sun Lee* *Hanyang University* *LG Electronics* *Hyundai-Kia Motors, Korea*
12:00	LUNCH		
13:00	**SESSION 13: Location** **Room: HS F4.03** **Chair: Steven Verstockt**	**SESSION 14: Privacy** **Room: HS F4.04** **Chair: Delphine Christin**	**SESSION 15: Apps** **Room: HS F4.06** **Chair: Mirjam Augstein**

Cooperative Enhancement of Position Accuracy of Unmanned Aerial Vehicles *Helmut Hlavacs* *University of Vienna, Austria* On the (In-)Accuracy of GPS Measures of Smartphones: A Study of Running Tracking Applications *Christine Bauer* *Vienna University of Economics and Business, Austria* Autonomous Flight using a Smartphone as On-Board Processing Unit in GPS-Denied Environments *Michael Leichtfried, Christoph Kaltenriner, Annette Mossel, Hannes Kaufmann* *Interactive Media Systems, Vienna University of Technology, Austria* Efficient Monitoring of Moving Mobile Device Range Queries using Dynamic Safe Regions *Haidar AL-Khalidi, David Taniar, John Betts, Sultan Alamri* *Monash University, Australia* Probabilistic Inference of Multi-Object Trajectories *Pengcheng Wang* *Shanghai Jiao Tong University, China*	Can Smartphone Users Turn Off Tracking Service Settings? *Veelasha Moonsamy, Lynn Batten, Malcolm Shore* *Deakin University* *NBN Co., Australia* An Approach for Dynamic Personal Monitoring based on Mobile Complex Event Processing *Yongchun Xu, Nenad Stojanovic, Ljiljana Stojanovic, Dusan Kostic* *FZI Research Center for Information Technology, FZI at the University of Karlsruhe, FZI Kalrsruhe, NissaTech, Germany, Serbia* Improving reversible histogram based data hiding schemes with an image preprocessing method *Mehdi Fallahpour, David Megias, Mohammad Ghanbari* *Universitat Oberta de Catalunya, Spain* *University of Essex, UK* Hacking the Gestures of Past for Future Interactions *Atılım Şahin* *Istanbul Technical University, Turkey* Raising User Awareness about Privacy Threats in Participatory Sensing Applications through Graphical Warnings *Delphine Christin, Martin Michalak, Matthias Hollick* *TU Darmstadt, Germany*	Theatre Engine: Integrating mobile devices with live theater *Charles B. Owen, Alison Dobbins, Lisa Rebenitsch* *Michigan State University, USA* Assessing the User Experience Design as a Persuasive Methodology in a Real World Sport Application *Paolo Pilloni, Fabrizio Mulas, Luisella Piredda, Salvatore Carta* *University of Cagliari* *Everywhere Sport srl* *Italy* MoM-NOCS: Management of Mobile Multimedia Nature Observations using Crowd Sourcing *Chrisa Tsinaraki, Giannis Skevakis, Ioanna Trochatou, Stavros Christodoulak* *Technical University of Crete, Greece* Music homogeneity analysis through instantaneous frequencies *Tatiana Endrjukaite, Yasushi Kiyoki* *Keio University, Japan* Designing Seamless Mobile Augmented Reality Location Based Game Interfaces *Mark Lochrie, Klen Copic Pucihar, Adrian Gradinar, Paul Coulto* *Lancaster University, United Kingdom*
15:00	COFFEE BREAK	
15:30	**SESSION 16: Audio and Video** **Room: HS F4.03** **Chair: Yoo-Sung Kim** An HTML5 Player for Interactive Non-linear Video with Time-based Collaborative Annotations *Britta Meixner, Harald Kosch, Beate Siegel, Peter Schultes, Franz Lehner* *University of Passau, Germany* Large-scale Structure-from-Motion Reconstruction with small memory consumption *Guoyu Lu, Vincent Ly, Chandra Kambhamettu* *University of Delaware, USA* A Semi-Automatic Video Annotation Tool to Generate Ground Truth for Intelligent Video Surveillance Systems *Joosung Kim, Ryu-Hyeok Gwon, Jin-Tak Park, Hakil Kim, Yoo-Sung Kim* *Inha University, Korea*	**SESSION 17: Assistive Health** **Room: HS F4.04** **Chair: Annette Mossel** A User Modelling Wizard for People with Motor Impairments *Werner Kurschl, Mirjam Augstein, Holger Stitz, Peter Heumader, Claudia Pointner* *University of Applied Sciences Upper* *Johannes Kepler University, Austria* Building on Mobile towards Better Stuttering Awareness to Improve Speech Therapy *Rui Neves Madeira, Patrícia Macedo, Pedro Pita, Íris Bonança, Helena Germano* *Escola Superior de Tecnologia de Setúbal* *Instituto Politécnico de Setúbal, Portugal* Using Planning with Action Preference in Story Generation *Xiaobo Li, Jiao Wu, Samiullah Paracha, Osamu Yoshie*	***SESSION 18: Learning*** ***Room: HS F4.06*** ***Chair: Aleksandar Karadimce*** Mobile Education – Effective Integration of new mobile technologies into existing learning systems using MISA Method *Ouiame Filali Marzouki, Mohammed Khalidi Idrissi, Samir Bennani* *Ecole Mohammadia d'ingénieurs, Morocco* An Adaptive and Book-Oriented Mobile Touch Screen User Interface Concept for Novice Senior Users *Michael Hölzl, Christoph Schaffer* *University of Applied Sciences Upper Austria, Austria* A Framework for Instantiating Native Mobile Multimedia Learning Applications on Android Platform *Kiemute Oyibo, Mohamed Hamada*

	Extraction of Pinna Features for Customized Binaural Audio Delivery on Mobile Devices *Simone Spagnol, Michele Geronazzo, Davide Rocchesso. Federico Avanzini* *University of Padova* *Iuav University of Venice* *Italy*	*Waseda University, Japan* SRE: A Scenario-based Requirement Exploration Process for End-user Mobile-Application Development *Khoi-Nguyen Tran, Hong-Quang Nguyen* *International University, Vietnam*	*African University of Science and Technology, Nigeria* *University of Aizu, Japan* Model for interactive, collaborative and multimedia mobile learning environment *Danco Davcev, Aleksandar Karadimce* *University Sts Cyril and Methodius, Macedonia*
18:30 – 22:30	**CONFERENCE GALA DINNER** *Palais Niederösterreich, Herrengasse 13, 1010 Vienna*		

Wednesday, 4 December 2013

9:00	**SESSION 19: Audio and Video** **Room: HS F4.03** **Chair: Mark Lochrie** Dynamic Compressive Tracking *Ting Chen, Yanning Zhang, Tao Yang, Hichem Sahli* *Northwestern Polytechnical University, China,* *Vrije Universiteit Brussel, Belgium* Instantaneous Video Quality Assessment for lightweight devices *Antonio Liotta, Decebal Constantin Mocanu, Vlado Menkovski, Luciana Cagnetta, Georgios Exarchakos* *Eindhoven University of Technology, Netherlands* *University of Modena, Italy* Dynamic Database Creation for Speaker Recognition System *Bhushan Patil, Yogesh Manav, Pavan Sudheendra* *Samsung R&D Institute India* *India* Gender Recognition Based On Combining Facial and Hair Features *Chien-Cheng Lee, Chung-Shun Wie* *Yuan Ze University, Taiwan*	**SESSION 20: Networking** **Room: HS F4.04** **Chair: Michael Roland** Simulation and Evaluation of the Interference Models for RFID Reader-to-Reader Collisions *Linchao Zhang, Renato Ferrero, Filippo Gandino, Maurizio Rebaudengo* *Politecnico di Torino, Italy* Honeypot Framework for Wireless Sensor Networks *Jürgen Markert, Michael Massoth* *Plymouth University, UK* *Hochschule Darmstadt, Germany* Web-safe Fonts for Device-independent Mobile Web Applications *Jacek Chmielewski* *Poznan University of Economics, Poland* Efficient Approximation Algorithm for Data Retrieval with Conflicts in Wireless Networks *Ping He, Hong Shen, Hui Tian* *Beijing Jiaotong University, China*	**SESSION 21: Apps** **Room: HS F4.06** **Chair: Charles B. Owen** Energy-efficient Passive Replication of a Process in Mobile Environment *Dilawaer Doulikun, Ailixier Aikebaier, Tomoya Enokido, Leonard Barolli, Makoto Takizawa* *Hosei University* *NICT* *Rissho University* *Fukuoka Institute of Technology Japan* A Method for Mobile Download Conversion Rate Measurement based on Device Fingerprinting *Alexander Schuch, Clemens Holzmann, Florian Lettner* *University of Applied Sciences Upper Austria, Austria* Energy-Aware Adaptation of Educational Multimedia in Mobile Learning *Syed Jalal* *University of Southampton* *United Kingdom* A Data Mashup Engine for Smartphones Based on XProc *Harald Hofstätter, Amin Anjomshoaa, A Min Tjoa* *Vienna University of Technology, Austria*
10:30	COFFEE BREAK		
11:00			
12:00	LUNCH		
13:00	**CLOSING KEYNOTE** **New Technologies: We have seen nothing yet** **Prof. Hermann Maurer**		

	Room: HS F0.01
14:00 – 14:30	**CLOSING & BEST PAPER AWARD/JOURNAL SELECTION**

Presentation Guidelines

1. All presenters of oral presentations must report to the session chair in advance of each session.
2. Presenters can either use the laptop provided in each room (PC) or connect their own laptop to the projector. If you are bringing your own computer to connect to the projector: a VGA cable with male connector will be provided for hooking up your laptop. Most computers require an adapter that varies by brand (Mac/PC) and even by model. Please ensure you bring the proper adapter that will fit your computer (no adapters will be available on site). It would be a good idea to arrive at the room 20 minutes early to test connecting your computer to the projector, so as not to delay the presentation during the actual session.
3. If using the conference-provided laptop, presentations should be uploaded USB flash drive/pen drive during the break before the beginning of the sessions at the latest. Only Power Point presentations (.ppt/.pptx) and Adobe Acrobat files (.pdf) will be accepted, as the available software includes Microsoft Office and Adobe Acrobat Reader. If you have a video or audio file embedded in the presentation we recommend using a standard video and audio codec compatible with Microsoft PowerPoint.
4. Presentation time is critical; each FULL paper is allocated 25 minutes for presentation. This time includes setup and questions. We recommend that presentation of your slides should take about 20 minutes, leaving 5 minutes for setup, introduction, summary, and questions from the audience.
5. Each SHORT paper or DEMOSTRATION is allocated 20 minutes for presentation. This time includes setup and questions. We recommend that presentation of your slides should take about15 minutes, leaving 5 minutes for setup, introduction, summary, and questions from the audience.