

**15th International Conference on WWW/Internet (ICWI)
&
13th International Conference on Applied Computing (AC)
2016
Mannheim, Germany**

CONFERENCE PROGRAM

Friday 28th, October 2016

08:30-19:30 Welcome Desk

**09:45-10:00 Session O – Opening Session
(Room O145)**

OPENING SESSION
Prof. Hans Weghorn

**10:00-11:00 Session KL1 – Keynote Presentation
(Room O145)**

THE INTERNET OF THINGS – BOON AND BANE OF THE MODERN WORLD?
by Prof. Miriam Foeller-Nord, Hochschule Mannheim, Germany

11:00-11:30 Coffee Break

**11:30-13:15 Session FRP 28.1
e-Learning
(Room O145)**

Chair: Markus Hohenwarter

INTENSIFYING THE DEVELOPMENT OF WEB-BASED VIRTUAL MUSEUMS FOR E-LEARNING DOMAIN (F016)
Luciana A. M. Zaina, Eline F. de A. Welter, Guilherme J. de C. Góis and Andréia D. Leles
GAME ELEMENTS IN “LABOURS OF HERCULES” (F211)
Selay Arkün Kocadere, Fatma Bayrak, Pınar Nuhoğlu Kibar, Şeyma Çağlar and Zehra Sayın
AN ONTOLOGY-BASED CLASSIFICATION OF LEARNING MATERIALS IN SOFTWARE ENGINEERING AREA (F333)
Joselaine Valaski, Sheila Reinehr and Andreia Malucelli
BENEFITS AND DRAWBACKS OF SYNCHRONOUS ONLINE CONFERENCING (R055)
Iris Wunder

**11:30-13:20 Session FSP 28.2
Algorithms // Parallel and Distributed Systems
(Room O133)**

Chair: Toshihiko Kato

A COMPARISON-FREE SORTING ALGORITHM ON CPUS (F410)
Saleh Abdel-hafeez, Ann Gordon-Ross and Samer Abubaker
A CASE STUDY ON FMU AS CO-SIMULATION EXCHANGE FORMAT FOR FEM MODELS (F129)
Christof Kaufmann and Jörg Frochte
A NEW ARCHITECTURE BASED DISTRIBUTED AGENTS USING PSO FOR MULTIOBJECTIVE OPTIMIZATION (F398)
Najwa Kouka, Raja Fdhila and Adel M. Alimi
VECTOR-BASED APPROACH TO SKELETON EXTRACTION FROM THE HUMAN HAND'S 3D MODEL (S131)
Aleksandrs Sisojevs and Katrina Boločko

13:00-14:30 Lunch Break

14:30-16:15 Session FSP 28.3
Collaborative Systems // Tagging and User Rating Systems
(Room O145)

Chair: Markus Hohenwarter

ASSISTING USERS IN OPEN DATA INFRASTRUCTURES: A MANAGEMENT PERSPECTIVE (F281)
Hashim Iqbal Chunpir and Luciana A. M. Zaina
MORE THAN CONTENT CLASSIFICATION: SELF-EXPRESSION THROUGH IMAGE TAGGING (F241)
Angelina Ziesemer, Luana Müller and Milene Silveira
USING QUALITY FACTORS TO FIND "GOOD" RESOURCES ON THE GEOGEBRA MATERIALS SHARING PLATFORM (S199)
Markus Hohenwarter and Cristian Hedes
PROTOTYPING AN INNOVATIVE COOPERATIVE CAMPUS SYSTEM (P088)
Herbert Neuendorf
CONNECTCITY: A COLLABORATIVE E-GOVERNMENT APPROACH TO REPORT CITY INCIDENTS (S037)
Amanda Carolina Pistolato and Wladimir Cardoso Brandão

14:30-15:30 Panel Session
(Room O133)

HEALTH SERVICES ON THE NET - WHAT'S GOOD FOR ME? WHAT'S BAD? AND HOW DO I TELL THE DIFFERENCE?
Thomas Wetter, Célia Boyer, Tobias Neisecke, Jonas Pendzialek and Monika Pobiruchin

15:40-16:30 Session FSP 28.4
Software Engineering
(Room O133)

Chair: Charlie Shim

FROM WRIGHT FORMAL ADL TO A CONCURRENT ADA PROGRAM (F165)
Farah Fourati, Mohamed Tahar Bhiri and Riadh Robbana
A QUICK OVERVIEW OF DEVOPS – AN INTEGRATED SOLUTION TO SOFTWARE DEVELOPMENT, IT OPERATIONS, AND QUALITY CONTROL (S016)
Robert F. Roggio

16:30-17:00 Coffee Break

17:00-19:30 Session FP 28.5
Semantic Web
(Room O145)

Chair: Martin Gaedke

FAME.Q - A FORMAL APPROACH TO MASTER QUALITY IN ENTERPRISE LINKED DATA (F223)
André Langer and Martin Gaedke
MAPPING RDB TO RDF WITH HIGHER SEMANTIC ABSTRACTION (F294)
Dewi Wisnu Wardani and Josef Küng
A SYSTEMATIC LITERATURE REVIEW OF OWL ONTOLOGY EVALUATION (F340)
Alex Mateus Porn, Cristiane Aparecida Gonçalves Huve, Leicia Mara Peres and Alexandre Ibrahim Direne
AN AGENT-BASED COMPOSITION MODEL FOR SEMANTIC MICROSERVICES (F284)
Ivan Salvadori, Alexis Huf and Frank Siqueira
SEMANTIC PUBLISHING AS A TOOL IN SMART, SELF-PROTECTIVE CRITICAL INFRASTRUCTURE (F322)
Anastasiia Girka

17:00-19:10 Session FSP 28.6
Security // Other
(Room O133)

Chair: Kyoji Kawagoe

WIRELESS INTRUSION DETECTION SYSTEM ON THE BASIS OF DATA MINING METHODS (F050)
Ilya Sharabyrov, Vladimir Vasilyev, Murat Guzaïrov and Irina Mashkina
TRIBE OF DRONES: HACKERS OR HEROES? (F352)
Suleyman Kondakci
QUALITY MODEL FOR INTERNAL SECURITY FEATURES OF SOFTWARE COMPONENTS (F317)
Everson Mauda, André Menolli, Andreia Malucelli, Altair Santin and Sheila Reinehr (presented by Joselaine Valaski)
SOLUTION PREDICTION FOR VULNERABILITIES USING TEXTUAL DATA (S104)
Atefeh Khazaei, Mohammad Ghasemzadeh and Christoph Meinel
A MECHANISM FOR PRESERVING PRIVACY IN FEDERATED CLOUD IDMS (S012)
Charlie Y. Shim, Injoo Kim and Yeongkwun Kim

Saturday 29th, October 2016

08:30-16:00 Welcome Desk

09:00-11:00 Session FP 29.1

Semantic Web

(Room: O145)

Chair: Wladimir Brandao

AUTOMATIC DETERMINATION OF SIMILARITY THRESHOLD FOR FOCUSED CRAWLING PROCESSES ON WEB PAGES (F023)

Gustavo Oliveira de Siqueira, Guilherme Tavares de Assis, Anderson Almeida Ferreira, Amanda Sávio Nascimento e Silva, Vítor Mangaravite and Flávio Luís Cardeal Pádua

A SEMANTIC SEARCH ENGINE FOR SOFTWARE COMPONENTS (F182)

Bernhard G. Humm and Hesam Ossenloo

EXTRACTING DOMAIN-INDEPENDENT INFORMATION FROM THE WEB FOR PORTUGUESE USING REVERB (F327)

Julio Cesar Batista Pires and Cedric Luiz de Carvalho

A PLATFORM TO ENRICH, EXPAND AND PUBLISH LINKED DATA OF POLICE REPORTS (F279)

Bruno C. N. Oliveira, Ivan Salvadori, Alexis Huf and Frank Siqueira

08:50-11:00 Session FSP 29.2

Information Retrieval // Data Mining

(Room: O133)

Chair: Mohammad Ghasemzadeh

EXTRACTION OF HISTORICAL WATER SALINITY FROM DIATOM ALGAE FOSSILS: A DATA MINING APPROACH (F376)

Ray R. Hashemi, Jeffery A. Young, Azita A. Bahrani, Nicholas R. Tyler and Jay Y. S. Hodgson

A BIBLIOMETRIC STUDY OF THE RESEARCH OUTPUT OF VISEGRAD COUNTRIES (F379)

Stephen Nabareseh, Eric Afful-Dadzie, Michael Adu Kwarteng and Petr Klímek

TWO-PITCH ESTIMATION FROM EEG SIGNALS FOR MUSIC-QUERY BY MELODY-RECALL IN THE BRAIN (F329)

Kyoji Kawagoe, Mao Otsuka, Ryosuke Yamanishi, Yasuhiro Tsubo, Akira Hirabayashi and Haruo Sakuma

KNOWLEDGE DISCOVERY FROM ONLINE CUSTOMER REVIEWS TOWARDS PRODUCT IMPROVEMENT (S387)

Esmail Nikumanesh, Mahdi Bohlouli and Madjid Fathi

PATENT DATA ANALYSIS SYSTEM FOR INFORMATION EXTRACTION TASKS (S388)

Dmitriy M. Korobkin, Sergey A. Fomenkov, Alla G. Kravets and Alexander B. Golovanchikov

11:00-11:30 Coffee Break

11:30-13:00 Session FP 29.3

e-Health

(Room: O145)

Chair: Thomas Wetter

QRm: A QR-CODE BASED MHEALTH INFORMATION SYSTEM FOR PATIENT-CENTERED CARE (F013)

Dongsong Zhang, Yueyang Jiang, Lina Zhou, Lili Huang, Jeffrey C. Fink, Güneş Koru and Youfa Wang

A COLLABORATIVE SITUATION-AWARE MODEL TO SUPPORT INFORMATION EXCHANGE AMONG MEDICAL TEAMS (F093)

Vinicius Tocantins Marques, Cristiano André da Costa, Jorge Luís Victória Barbosa and Rodrigo da Rosa Righi

A UBIQUITOUS MODEL FOR HEART MONITORING BASED ON SITUATION AWARENESS (F105)

Cristofe Coelho Lopes da Rocha, Cristiano André da Costa and Rodrigo da Rosa Righi

11:30-13:10 Session FP 29.4

Communications // Mobile Networks and Systems

(Room: O133)

Chair: Joerg Frochte

A BASED-SENTENCE AGGREGATION APPROACH FOR TWEET CONTEXTUALIZATION (F324)

Amira Dhokar, Lobna Hlaoua and Lotfi Ben Romdhane

AN OPPORTUNISTIC SCHEDULING ALGORITHM FOR MIMO WIRELESS NETWORKS THROUGH FUZZY LOGIC (F413)

Hakki Soy and Özgür Özdemir

DLBMS: A DYNAMIC LOAD BALANCING FOR MOBILE SUBSCRIBERS INTO PUBLISH/SUBSCRIBE SYSTEMS (F382)

Fatma Abdennadher and Maher Ben Jemaa

AUTONOMOUS VEHICLES NETWORKS WITH GTA SAN ANDREAS MULTIPLAYER: COMMUNICATION NON-ORIENTED TO CONNECTION BETWEEN VEHICLES AND CENTRALS IN STREETS INTERSECTIONS (P407)

Rodrigo Rodrigues de Novaes Júnior, Daniel de Aguiar Gonçalves, Daniel de Sousa Santos, Gabriel Martins Franco Santiago and Sandro Renato Dias

11:30-12:30 Session FP 29.5
Usability Issues // Human Computer Interaction and Usability
(Room: O135)
Chair: Robert Roggio

GAZE INPUT METHOD TO SMART DEVICES USING A WEARABLE DEVICE (F101)
Junko Shirogane, Yuta Kanehara, Hajime Iwata and Yoshiaki Fukazawa
REFOCUS: CURRENT & FUTURE SEARCH INTERFACE REQUIREMENTS FOR GERMAN-SPEAKING USERS (F185)
Maximilian Speicher, Andreas Both and Martin Gaedke

13:00-14:30 Lunch Break

14:20-15:40 Session FP 29.6
Web Metrics // Web Standards // Semantic Web
(Room: O145)
Chair: Mohammad Ghasemzadeh

SEMANTIC INTERPRETATION AND FORMAL GRAPH MODEL OF AN ATTRIBUTED PREDICATE RDF (F292)
Dewi Wisnu Wardani and Josef Küng
EVALUATION OF REST INTERFACES FOR RELIABLE INVOCATION SEMANTICS (S034)
Ricardo Filipe and Filipe Araujo
RULE BASED PREDICATE PIVOT SPARQL TEMPLATE (F088)
Dewi Wisnu Wardani and Josef Küng

14:20-15:50 Session FP 29.7
Social Networks
(Room: O133)
Chair: Robert Roggio

THE EVALUATION OF NODE'S POWER IN THE SOCIAL NETWORK SPHERE (F337)
Radek Malinský and Ivan Jelínek
IDENTIFYING IMPORTANT LIFE EVENTS FROM TWITTER USING SEMANTIC AND SYNTACTIC PATTERNS (F253)
Thomas Dickinson, Miriam Fernandez, Lisa A Thomas, Paul Mulholland, Pam Briggs and Harith Alani
DEVELOPING A NEW MODEL FOR THE AVOIDANCE OF MALWARE THREATS THROUGH ONLINE SOCIAL NETWORKS (F267)
Ehinome Ikhaliya and Alan Serrano

16:00 – Social Event - Conference Tour and Dinner

Sunday 30th, October 2016

08:30-13:10 Welcome Desk

08:50-11:00 Session FSP 30.1
Technologies for E-Learning // e-Learning
(Room O145)
Chair: Luciana Zaina

AUGMENTED REALITY, A RELEVANT TECHNOLOGICAL TOOL IN THE PROCESS OF TEACHING AND LEARNING A SECOND LANGUAGE, ENGLISH, AT THE PRESCHOOL LEVEL (F093)
Maily A. Quintero E.
THE EFFECTIVENESS OF THE SEMANTIC MAPPING RELATIONAL TO GRAPH MODEL (F098)
Dewi Wisnu Wardani and Josef Küng
THE TEACHING OF PROGRAMMING LOGIC APPLIED TO THE VIRTUAL REALITY FROM A SERIOUS GAME (F163)
Michael Valencia R.
THE USE OF GEOGEBRA DURING EXAMS ALONGSIDE PAPER AND PENCIL (S345)
Melanie Tomaschko and Markus Hohenwarter
SMART-READER FOR A BETTER E-LEARNING (S169)
Ilmi Yoon, Imram Alavi, Selman Kahya, Joshua Lee and Ji Won Shin

08:50-11:05 Session FRP 30.2

Visualization // Other

(Room O133)

Chair: Aleksandrs Sisojevs

REFLECTIONS ON THE USABILITY OF THE UPCOMING BRACELET DEVICE CLASS FOR SPORTS AND HEALTH TRACKING (F362)

Hans Weghorn

EVALUATING SUNBURST AND ICICLE SPACE-FILLING TECHNIQUES IN SHOWING LARGE HIERARCHICAL DATA (F336)

Sujay Muramalla, Ragaad AlTarawneh, Shah Rukh Humayoun, Ricarda Moses and Achim Ebert

AN IMPROVED RED COLOR SEGMENTATION ALGORITHM AS PART OF AN AUTOMATIC SPEED LIMIT SIGN DETECTION (F369)

Hanene Rouabeh, Chokri Abdelmoula and Mohamed Masmoudi

FILTERING P2P LOANS BASED ON CO-UTILE REPUTATION (F342)

Abeba Nigussie Turi, Josep Domingo-Ferrer and David Sánchez

ORGANIC PRINCIPLES TO INCREASE SAFETY AND SECURITY OF MODERN AUTOMOTIVE SYSTEMS (R390)

Robert Altschaffel, Falko Rassek and Jana Dittmann

11:00-11:30 Coffee Break

11:30-13:00 Session FSRP 30.3

e-Health

(Room O145)

Chair: Hans Weghorn

A DYNAMIC PERSONAL HEALTH RECORD WITH SEMANTIC INTEROPERABILITY SUPPORT (F194)

Vitor Secretti Bertonecello, Cristiano André da Costa and Rodrigo da Rosa Righi

FHIR HEALTHCARE DIRECTORIES: ADOPTING SHARED INTERFACES TO ACHIEVE ARCHITECTURE INDEPENDENCE (S142)

Timothy Tyndall and Ayami Tyndall

OPPORTUNITY OR CHALLENGE? WHEN DESIGNING MHEALTH APPLICATIONS FOR UNDERSERVED POPULATION: A CASE STUDY ON MIGRANT WORKERS IN CHINA (R168)

Shijuan Li, Lingmiao Yao, Zhixing Liu and Tianyuan Liu

DETECTING EMERGENCY FALLING IN ELDERLY PATIENTS (R247)

Muhammad Faizan, Shah Rukh Humayoun and Achim Ebert

EXPLORING YOUNG PEOPLE'S PERCEPTION ON THE ASSESSMENT OF THE CREDIBILITY OF ONLINE HEALTH INFORMATION: A CASE STUDY ON UNIVERSITY STUDENTS IN CHINA (P193)

Beidi Yu and Shijuan Li

11:30-12:40 Session FSP 30.4

Network Performance // Protocols and Standards // Other

(Room O133)

Chair: Herbert Neuendorf

MICROSCOPIC APPROACH FOR EXPERIMENTAL ANALYSIS OF MULTIPATH TCP THROUGHPUT UNDER INSUFFICIENT SEND/RECEIVE SOCKET BUFFERS (F214)

Toshihiko Kato, Masaaki Tenjin, Ryo Yamamoto, Satoshi Ohzahata and Hiroyuki Shinbo

EVALUATING VM LIVE MIGRATION OVERHEAD WITH XEN HYPERVISOR (S219)

Petrônio Bezerra, Gustavo Martins, César Rocha, Reinaldo Gomes and Fellype Cavalcante

PROPOSAL FOR A NEW BASIC INFORMATION CARRIER ON THE INTERNET: URL PLUS NUMBER SEQUENCE (S208)

Wolfgang Orthuber and Wilhelm Hasselbring

13:00 Best Paper Awards Ceremony and Closing Session

(Room O133)

Prof. Hans Weghorn