The Fourth International Conference on Data Analytics

DATA ANALYTICS 2015

July 19 - 24, 2015 - Nice, France

Preliminary Program

NexTech 2015

ADVCOMP 2015 / SEMAPRO 2105 / AMBIENT 2015 / EMERGING 2015 / DATA ANALITICS 2015 / UBICOMM 2015 / GLOBAL HEALTH 2015

Conference Venue Location
Conference Hotel
Hotel Novotel Cap 3000
Nice/St. Laurent du Var
40 avenue du Verdun
06700 Saint Laurent du Var, France

Conference rooms Time slots	Room A	Room B	Room C	Room D

Sunday, July 19

12:00	**Registration starts** The registration desk is located in front of the conference rooms Opened during the entire conference
13:30 - 15:00	**Tutorial I** **Random Number Generators with Multiple Streams for Parallel Computing: An Overview and Some Proposals** Prof. Dr. Pierre L'Ecuyer, Universite de Montreal, Canada
15:00 - 15:30	
15:30 - 17:00	**Tutorial II** **Distributed Things: Technologies, Platforms, and Applications** Prof. Dr. Giorgio Delzanno, University of Genoa, Italy
17:00 - 17:30	
17:30 - 18:30	**Tutorial III** **The First Rule of Marketing Analytics: Forget the Customer** Matt Hertig, Co-Founder, Alight Analytics, USA
19:00 - 20:00	**Welcome Cocktail** You must have your badge to attend the cocktail

Monday, July 20

09:00 - 09:15	Opening session			
09:15 - 10:15	**Keynote Speaker** **Big Data Analytics for Smarter Cities and a Safer Planet** Robert Griffin, General Manager, IBM Safer Planet and Smarter Cities | IBM Analytics Group, USA			
10:15 - 10:30	**Coffee Break**			
10:30 - 12:15	UBICOMM 1	ADVCOMP 1	DATA ANALYTICS 1	GLOBAL HEALTH 1
12:15 - 13:45	Lunch on your own			
13:45 - 15:30	**Special Panel** **The Value of Data Analytics for Resiliency and Sustainability Efforts** **Panel Moderator:** Steve Chan, Sensemaking-PACOM Fellowship & AIRS, Swansea University/Hawaii Pacific University, UK/USA **Panelists:** Robert Griffin, IBM, USA Jan-Kees Buenen, Synerscope, The Netherlands | USA Stef van den Elzen, Synerscope, USA | Eindhoven University of Technology, The Netherlands Tom Klemas, Sensemaking-PACOM Fellowship & AIRS, Swansea University/Hawaii Pacific University, UK/USA Rob Spousta, Sensemaking-PACOM Fellowship & AIRS, Swansea University/Hawaii Pacific University, UK/USA Alison Kuzmickas, Sensemaking-PACOM Fellowship & AIRS, Swansea University/Hawaii Pacific University, UK/USA			
15:30 - 15:45	**Coffee Break**			
15:45 - 17:30	EMERGING 1	ADVCOMP 2	DATA ANALYTICS 2	SEMAPRO 1
17:30 - 17:45	**Coffee Break**			
17:45 - 19:30	UBICOMM 2	ADVCOMP 3	AMBIENT 1	GLOBAL HEALTH 2

Tuesday, July 21

09:15 - 10:15	**Keynote Speaker** DreamCloud: A New Vision of High Performance Computing Dr. Alexey Cheptsov, The High Performance Computing Center Stuttgart, Germany			
10:15 - 10:30	**Coffee Break**			
10:30 - 12:15	UBICOMM 3	ADVCOMP 4	DATA ANALYTICS 3	GLOBAL HEALTH 3
12:15 - 13:45	Lunch on your own			
13:45 - 15:30	EMERGING 2	ADVCOMP 5	DATA ANALYTICS 4	SEMAPRO 2
15:30 - 15:45	**Coffee Break**			
15:45 - 17:30	UBICOMM 4	SEMAPRO 3	DATA ANALYTICS 5	AMBIENT 2
17:30 - 19:15	**PANEL on DATA ANALYTICS** **Topic: The Value of Big Data: A Linked-Data Perspective for Corporate Performance** **Moderator:** Tom Klemas, Sensemaking-PACOM Fellowship & AIRS, Swansea University/Hawaii Pacific University, UK/USA **Panelists:** Armand Prieditis, Neustar, USA Olaf Jacob, University of Applied Sciences Neu-Ulm, Germany Yuehua Wu, York University, Canada			

Wednesday, July 22

09:15 - 10:15	**Keynote Speaker** Mobile Medium: Mobile Ad hoc Network-based Infrastructure Prof. Dr. Przemyslaw Pochec, University of New Brunswick, Canada			
10:15 - 10:30	**Coffee Break**			
10:30 - 12:15	UBICOMM 5	SEMAPRO 4	DATA ANALYTICS 6	GLOBAL HEALTH 4
12:15 - 13:45	Lunch on your own			
13:45 - 15:30	**Panel on GLOBAL HEALTH/AMBIENT** **Topic: Ambient Support Systems and Platforms for Health Self-management and Well-being** **Moderator:** Matthieu-P. Schapranow, Hasso Plattner Institute, Germany **Panelists:** Hassan Khachfe, Lebanese International University, Lebanon Youna Jung, Virginia Military Institute, USA Tom Ruette, Sirris, Belgium Heidi Gilstad, Norwegian University of Science and Technology, NTNU, Norway George Margetis, Institute of Computer Science, Foundation for Research and Technology - Hellas (FORTH), Greece			
15:30 - 15:45	**Coffee Break**			
15:45 - 17:30	UBICOMM 6	EMERGING 3	ADVCOMP 6	AMBIENT 3
17:30 - 19:15	**Panel on ADVCOMP/SEMAPRO** **Topic: Computing Challenges with Semantics and Ontology Models** **Moderator:** Luc Vouligny, Hydro-Québec (IREQ), Canada **Panelists:** Michael Clauß, Technische Universität Chemnitz, Germany Artem Katasonov, VTT, Finland Cristovão Sousa, Universidade do Porto, Portugal Jason Gu, Dalhousie University, Canada			
20:00 - 23:00	**GALA DINNER**			

Thursday, July 23

09:15 - 10:15	**Keynote Speaker** The Development of Protein Structure Techniques: From Column Chromatography to Computational Modeling Prof. Dr. Hassan Khachfe, Lebanese International University, Lebanon			

10:15 - 10:30	**Coffee Break**			
10:30 - 12:15	GLOBAL HEALTH 5	EMERGING 4	ADVCOMP 7	DATA ANALYTICS 7
12:15 - 13:45	Lunch on your own			
13:45 - 15:30	**Panel on UBICOMM/EMERGING** **Topic: Ubiquity, Internet of Things, and Accessibility: On Infrastructure Criticality and Resilience Needs** **Moderator:** Hassan Khachfe, Lebanese International University, Lebanon **Panelists:** Dmitry Korzun, Petrozavodsk State University, Russian Federation Nizar Al-Holou, University of Detroit Mercy, USA Andrzej Marczak, Gdansk University of Technology, Poland			
15:30 - 15:45	**Coffee Break**			
15:45 - 17:30	UBICOMM 7	EMERGING 5	SEMAPRO 5	DATA ANALYTICS 8
17:30 - 18:00	**CLOSING SESSION**			

Friday, July 24

Recommended to be seen on your own
Nice (direct bus, ~20 minutes, every 15 minutes)
Monaco/Monte Carlo (trains, every 30 minutes)
Cannes (trains, every 30 minutes)
Saint-Tropez (agency offers at Novotel Hotel)

DETAILED PROGRAM

ADVCOMP 2015, The Ninth International Conference on Advanced Engineering Computing and Applications in Sciences

ADVCOMP 1: Advanced methods in fusion physics
Session chair: Tomasz Rymarczyk

A High-Order Relaxation Method for Condensed Explosives Detonation
Ming Yu, Zhibo Ma

Uncertainty Quantification for Modeling and Simulation with Calibration
Ma Zhibo, Yu Ming

Total Variation Regularization Approach for Abel Transform Based Image Reconstruction [PRESENTATION]
Raymond Chan, Suhua Wei, Haixia Liang, Mila Nikolova, Xue-Cheng Tai

A Cell-Centered Lagrangian Method Based on Local Evolution Galerkin Scheme for Two-Dimensional Compressible Flows
Ming Yu, Haibo Xu, Yutao Sun

ADVCOMP 2: Development of computing support
Session chair: Suhua Wei

A Patent Quality Classification System Using a Kernel-PCA with SVM
Pei-Chann Chang, Jheng-Long Wu, Cheng-Chin Tsao, Meng-Hsuan Lin

Preference Elicitation in Decision Making Prioritisation Problems by Evolutionary Computing
Ludmil Mikhailov

Using Application Oriented Micro-Benchmarks to Characterize the Performance of Single-node Hardware Architectures
Rudolf Berrendorf, Jan P. Ecker, Javed Razzaq, Simon E. Scholl, Florian Mannuss

An Automatic Code Generator for Parallel Evolutionary Algorithms: Achieving Speedup and Reducing the Programming Efforts
Omar Andres Carmona Cortes, Jackson Amaral da Silva, Eveline de Jesus Viana Sa, Andrew Rau-Chaplin

ADVCOMP 3: Computing techniques
Session chair: Ludi Mikhailov

Automated Transformation of Multi-agent Protocols to Coloured Petri Nets
Ashwag Maghraby

Numerical Algorithms and Measurement Systems in Practical Implementation of Electrical Impedance Tomography
Tomasz Rymarczyk, Przemyslaw Adamkiewicz, Jan Sikora

Mapping Serial-Monadic Dynamic Programming onto CUDA-Enabled GPUs
Chao-Chin Wu, Kai-Cheng Wei, Jian-You Lin, Wei-Shen Lai

Exploring a Community Clustering Algorithm on Semantic Similarity in Large-Scale Social Network
Laizhong Cui, Yuanyuan Jin, Nan Lu

ADVCOMP 4: Complex computing in application domains
Session chair: Milan Cisty

Where am I? A Fast Multidimensional Point Location Test and its Applications
Tanja Clees, Martin Hüttemann, Igor Nikitin, Lialia Nikitina, Daniela Steffes-lai

RBF-metamodel Driven Multiobjective Optimization and its Application in Focused Ultrasonic Therapy Planning
Tanja Clees, Nils Hornung, Igor Nikitin, Lialia Nikitina, Daniela Steffes-lai

A Lot Scheduling Problem on a Single Machine with Indivisible Orders
Wen-Hung Kuo, Dar-Li Yang

Proposal of Clustering Approach Based on Structural Mechanics: An Application of Multi-Dimensional Truss
Kazuyuki Hanahara, Yukio Tada

ADVCOMP 5: Computing applications in science
Session chair: Kazuyuki Hanahara

Design and Optimization of T-shaped Circulator Based on Magneto-optical Resonator in 2D-photonic Crystals
Victor Dmitriev, Gianni Portela, Leno Martins

Takagi Sugeno Fuzzy Controller for Uncertain Single Link Manipulator
Umar Farooq, Jason Gu, Mohamed E El-Hawary, Jun Luo, Mhammad Usman Asad

Selection of Wavelet Decomposition Levels for Vibration Monitoring of Rotating Machinery
Hocine Bendjama, Daoud Idiou, Kaddour Gherfi, Yazid Laib

Application of Copulas in Analysis of Drought and Irrigation
Milan Cisty, Lubomir Celar, Anna Becova

ADVCOMP 6: Computing in Virtualization-based environments
Session chair: Dong Liang

Towards Coordinated Task Scheduling in Virtualized Systems
Jérémy Fanguède, Alexander Spyridakis, Daniel Raho

PLC and Its Applications : A Wireless and Automatic Pet-Feeding System for Rabbits
Hsin-Ching Chiang, Tzu-Fang Sheu, Hsiao-Ping Lee, Yi-Hsin Chen

Dual-OS Infrastructure for Mixed-Criticality Systems on ARMv8 Platforms
Alexander Spyridakis, Petar Lalov, Daniel Raho

ADVCOMP 7: Advances in computation methods
Session chair: Alexander Spyridakis

A Fuzzy-Genetic Algorithm Method for the Breast Cancer Diagnosis Problem
Abir Alharbi, Fairouz Tchier

Numerical Simulation of Ocean Ice Dynamics using Hybrid FE/FV Methods.
Sridhar Palle, Shahrouz Aliabadi

A Characteristic Adaptive Wavelet Method for Aerosol Dynamic Equations
Qiang Guo, Dong Liang

AMBIENT 2015, The Fifth International Conference on Ambient Computing, Applications, Services and Technologies

AMBIENT 1: Ambient computing environments, sensors and hardware
Session chair: Sebastian Mueller

Effective Mission Management through Service-aware Streaming Infrastructure
Marc Roelands, Wolfgang Van Raemdonck, Stéphane Ménoret, Laurent Navarro, Ana Bildea, Sébastien Creiche

Monitoring Abnormal Behavior of Hospital Patients Using RGB+D Sensors
Seung Chae, Kin Choong Yow

Flexible Management of Ambient Assisted Living Environments by Ontology-Based Configuration
Tom Zentek, Jürgen Bock, Asarnusch Rashid

Geolocation Architecture for Combining Multiple Technologies
Jean-Baptiste Drucker, Tony Ducrocq, Colombe Herault, Guillaume Lefebvre, Eric Ptak

An “Internet of Things” Vision of the Flood Monitoring Problem
Massimo Ancona, Andrea Dellacasa, Giorgio Delzanno, Andrea La Camera, Ivano Rellini

AMBIENT 2: Ambient devices, applications and systems
Session chair: Marc Roelands

A Smartwatch-Based System for Audio-Based Monitoring of Dietary Habits
Haik Kalantarian, Majid Sarrafzadeh

k-Nearest-Neighbour based Numerical Hand Posture Recognition using a Smart Textile Glove
Cai Li, Katharina Bredies, Anja Lund, Vincent Nierstrasz, Paul Hemeren, Dan Högberg

Component Templates and Service Applications Specifications to Control Dynamic Adaptive System Configurations
Holger Klus, Andreas Rausch, Dirk Herrling

Touch User Interface Evaluation for E-book Systems: A Usability Experiment on Zinio and MagV
Yang-Cheng Lin, Chung-Hsing Yeh

AMBIENT 3: Ambient computing and modeling
Session chair: Tony Ducrocq

Improvement on K-means and TSP Based Mobility Protocol of Wireless Sensor Network
Afef Ghabri, Monia Bellalouna, Walid Khaznaji

New Geometric Geolocalization Method for Tracking Patients in Medical Environments
Afef Ghabri, Monia Bellalouna, Leila Horchani

A Framework for Supporting Natural Interaction with Printed Matter in Ambient Intelligence Environments
George Margetis, Margherita Antona, Constantine Stephanidis

Multi-Target Data Association in Binary Sensor Networks
Sebastian Matthias Müller, Andreas Hein

Real-time Shadow Prediction Using Solar Position and Camera Calibration for Ambient Video Surveillance [POSTER]
Eunsoo Park, Xin Cui, Shengzhe Li, Hakil Kim

DATA ANALYTICS 2015, The Fourth International Conference on Data Analytics

DATA ANALYTICS 1: Resiliency and Sustainability through Analytics
Session chair: Teemu Vayrynen

Technology Roadmap for Hawaii Resiliency: Resiliency and Sustainability through Advanced Analytics
Thomas Klemas, Steve Chan

Hold the Drones: Fostering the Development of Big Data Paradigms through Regulatory Frameworks
Robert F Spousta III, Steve Chan

Space Race 2.0: Expanding Global Internet Accessibility
Robert Spousta III, Steve Chan, Bob Griffin

DATA ANALYTICS 2: Application-oriented analytics I
Session chair: Fang-Yu Pai

Automating Clustering Analysis of Ivory Coast Mobile Phone Data Deriving Decision Support Models for Community Detection and Sensemaking
Thomas Klemas, Steve Chan Network Science Research Centre

Blind Spots and Counterfeits in the Supply Chain: Lessons from Haiti that can be well applied to the Philippines and Hawaii
Alison Kuzmickas, Steve Chan, Robert Spousta III, Simone Sala

From Cheese to Fondue: A Sensemaking Methodology for Data Acquisition, Analytics, and Visualization
Robert F Spousta III, Stef van den Elzen, Steve Chan, Jan-Kees Buenen

DATA ANALYTICS 3: Application-oriented analytics II
Session chair: Raoul Schönhof

Market Basket Analysis Using Heterogeneous Multivariate Probit Models for Groups of Product Categories
Harald Hruschka

Measuring the Effects of Moods and Heart Rate Variability when Playing Video Games
Fang-Yu Pai, Ching-Hsiang Lai

A Modified Multi-objective Differential Evolution Algorithm with Application in Reinsurance Analytics
Omar Andres Carmona Cortes, Andrew Rau-Chaplin

League Adjusted Salary Model using Local Polynomial Regression
Shinwoo Kang

DATA ANALYTICS 4: Application-oriented analytics III
Session chair: Armand Prieditis

Context-Aware Data Analytics for Activity Recognition
Mohammad Pourhomayoun, Ebrahim Nemati, Bobak Mortazavi, Majid Sarrafzadeh

Monitoring Service Adaptation and Customer Churn in the Beginning Phase of a New Service
Teemu Mutanen, Ville Österlund, Risto Kinnunen

An Approach to Highly Available and Extensible Data Management Systems for Large Scale Factory Floor Data
Jaehui Park, Su-young Chi

EEPA: An Energy Efficient Partitioning Algorithm for Terminal Devices in Mobile Cloud Computing [PRESENTATION]
Chao Chen, Weidong Bao, Xiaomin Zhu

DATA ANALYTICS 5: Application-oriented analytics IV
Session chair: Teemu Mutanen

Fuzzy Clustering Based Approach to Traffic Classification and Anomaly Detection
Julija Asmuss, Gunars Lauks

Data-Driven Approach for Analysis of Performance Indices in Mobile Work Machines
Teemu Väyrynen, Suvi Peltokangas, Eero Anttila, Matti Vilkko

Determing the Business Value of Business Intelligence with Data Mining Methods
Karin Hartl, Olaf Jacob

Data Processing Intervals through Dynamical Models Applied to the Analysis of Self-Degenerative Systems
Ricardo Tomás Ferreyra

DATA ANALYTICS 6: Mechanisms and features
Session chair: Robert Spousta

Predicting the Next Executions Using High-Frequency Data
Ko Sugiura, Teruo Nakatsuma, Kenichiro McAlinn

Profit-based Logistic Regression: A Case Study in Credit Card Fraud Detection
Azamat Kibekbaev, Ekrem Duman

Big & Deep Data Analytics using Statistical Significance: An Introductory Survey
Sourav Dutta

Combining Machine Learning with Shortest Path Methods
Armand Prieditis, Chris Lee

DATA ANALYTICS 7: Target analytics
Session chair: Luc Vouligny

Towards the Automated Identification of Orphan Diseases from Case Descriptions
Christian Rohrdantz, Andreas Stoffel, Franz Wanner, Martin Drees

How can Plan Ceibal Land into the Age of Big Data?
Martina Bailón, Mauro Carballo, Cristóbal Cobo, Soledad Magnone, Cecilia Marconi, Matías Mateu, Hernán Susunday

Clustering Analysis of Academic Courses based on LMS Usage Levels and Patterns: Gaussian Mixture Model, K-Means Clustering and Hierarchical Clustering
Il-Hyun Jo, Yeonjeong Park, Hyeyun Lee, Jongwoo Song, Suyeon Kang

DATA ANALYTICS 8: Big data
Session chair: Christian Rohrdantz

Projective Adaptive Resonance Theory Revisited with Applications to Clustering Influence Spread in Online Social Networks
Jianhong Wu

Accelerated Mean Shift for Static and Streaming Environments
Daniel van der Ende, Jean Marc Thiery, Elmar Eisemann

Fast and Unsupervised Classification of Radio Frequency Data Sets Utilizing Machine Learning Algorithms
Phil Romero, Kalpak Dighe

Dynamical Behavior of Communicability Structures in Complex Networks
Kyungsik Kim, Seungsik Min

EMERGING 2015, The Seventh International Conference on Emerging Networks and Systems Intelligence

EMERGING 1: Mobility and ubiquity
Session chair: Jonathan Wu

A New Internet of Things Architecture with Cross-Layer Communication
Alberto Messias da Costa Souza Souza, José Roberto de Almeida Amazonas Amazonas

DIYbetes: a Mobile Platform for Empowering Type 2 Diabetes Mellitus Patients
Mário Zenha-Rela, Ana Matos, Lélita Santos, Miguel Antunes, João Costa, Marta Oliveira

An Analysis of Educational Big Data in University Using Mobile E-portfolio System with Smart Concierge
Noriko Hanakawa, Masaki Obana

Enhancing Ultrasonic Robot Positioning Accuracy with Parallel Codes Acquisition of Composite Pseudo-noise Sequences
Jen-Fa Huang, Chun-Chieh Liu, Kun-Fong Lin

EMERGING 2: Applications and services I
Session chair: Noriko Hanakawa

A Method for Custom Movement Generation in Wireless Mobile Network Simulation
Hawra Alseef, John DeDourek, Przemyslaw Pochec

A Longitudinal Study on Flipping the Classroom in a College Level English Course: Performance of undergraduate students at the Lebanese International University (LIU)
Fawzlya Tarhini, Dina Shouman, Anwar Kawtharani, Hanadi Saleh, Hassan Khachfe

Media Form Effect on Children's Attention
Chun-Chun Wei, Min-Yuan Ma

Rehabilitation System in 3D Natural Scenes
Amin Safaei, Q. M. Jonathan Wu

EMERGING 3: Technology and networking trends
Session chair: William Hurst

Performance Study of Channel-QoS Aware Scheduler in LTE Downlink Using NS3
Adi Syukri Md Yusof, Kuokkwee Wee, Ee Mae Ang, Mohd Fikri Azli Abdullah

Dynamic Node Movement Control in a Mobile Medium Ad hoc Network
Hanin Almutairi, John DeDourek, Przemyslaw Pochec

EMERGING 4: Applications and services II
Session chair: Andrzej Marczak

E-business Collaboration Club: A Case of Public Relation and Information Technology
Yuh-Wen Chen, Jung-Cheng Hsieh, Steve Hsieh

Profiling Users in the Smart Grid
Carl Chalmers, William Hurst, Michael Mackay, Paul Fergus

Towards Integrated Engineering of Adaptive Resilient Systems
Elena Troubitsyna

EMERGING 5: Networking and security
Session chair: Elena Troubitsyna

Analyze OSPF Convergence Time in the Presence of Single and Multiple Failures
Cristina-Loredana Duta, Laura Gheorghe, Nicolae Tapus

The Transmission Protocol of Sensor Ad Hoc Networks
Andrzej Marczak

Securing Indirect Communication for Advanced Metering Infrastructure in Smart
Mustafa Saed, Kevin Daimi, Nizar Al Holou

Detection of Advanced Persistent Threats Using System and Attack Intelligence
Alberto Redondo Hernández, Aitor Couce Vieira, Siv Hilde Houmb

GLOBAL HEALTH 2015, The Fourth International Conference on Global Health Challenges

GLOBAL HEALTH 1: Trends and practice
Session chair: Yuh-Wen Chen

Health Communication and Information Exchange in a Vascular Surgery Patient Trajectory
Heidi Gilstad

Emerging Issues in Medical and Engineering Ethics: The Case of Reverse Paternalism in Lebanon
Sarah Hammoud, Zahraa Shahrour, Ali Hage-Diab, Hassan Khachfe, Bassam Hussein

Enahancing Social Interaction and Belonging Among Seniors via Social TV [POSTER]
Younbo Jung

Transforming Tomorrow Today II: For Patients Worldwide: Smartphone Apps to the Rescue [PRESENTATION]
Martha Harrell, Shola Ayanlere

GLOBAL HEALTH 2: Challenges
Session chair: Meisam Booshehri

Privacy-Preserving Online Monitoring Framework for e-Health Applications
Youna Jung

Systematic Review of Obesogenic Environmental Determinants of Diet and the Implications of Obesity Prevention and Intervention Efforts
Angela Chang, Matthew T. Liu, Peter J. Schulz

Challenges of Comparing Medication eHealth Services in the Nordic Countries
Heidi Gilstad, Arild Faxvaag, Christian Nøhr, Sidsel Villumsen, Jarmo Reponen, Hege Andreassen, Lars Jervall, Thomas Pehrsson, Maarit Kangas, Guðrún Audur Harðardóttir, Sabine Koch, Hannele Hypponen

Y Chromosome Analysis of Infertile Men [PRESENTATION]
Jarmila Bernasovska, Iveta Boronova, Dana Gabrikova

GLOBAL HEALTH 3: Technology
Session chair: Heidi Gilstad

Brain Activity Estimation with Precise Motor Measurements of Visual Synchronization Task of Hands
Kyota Aoki, Hisanori Hotta

A Finger Movement Evaluation Device to Monitor the Use of Paretic Hand During Daily Life Activities
Bilal Debs, Eliane Mousallem, Ali Hage-Diab, Mohamad Hajj-Hassan, Hassan Khachfe, Soha Saleh, Nour El-Hoda Saleh, Ahmad Rifaii Sarraj, Houssam Yassine

Management System of Medical Equipment in Hospitals
Mohammad Rammal, Ahmad Jaffal, Hassan Khachfe, Mohamad Hajj-Hassan

GLOBAL HEALTH 4: Medical systems and technologies
Session chair: Joanna Taylor

Automatic Measurement of Pronation/Supination, Flexion/Extension and Abduction/Adduction Motion of Human Limbs using Wearable Inertial and Magnetic Sensors
Irvin Hussein López-Nava, Francisco Márquez-Aquino, Angélica Muñoz-Meléndez, David Carrillo-López, Héctor Simón Vargas-Martínez

Personalize Systems for Psychological Evaluation Performance and Vigilance Monitoring
Radka Jeziorska, Vilem Novak, Katerina Panackova, Marek Penhaker

IT-Aided Business Process Enabling Real-time Analysis of Candidates for Clinical Trials
Matthieu-P. Schapranow, Cindy Perscheid, Hasso Plattner

GLOBAL HEALTH 5: Fundamentals
Session chair: Marek Penhaker

Understanding the Social Dynamics of Twitter, Facebook and Diabetes.co.uk and Their Value Implications for Patients and Health Researchers
Joanna Taylor, Claudia Pagliari, Miles Osborne

A Semantic Reasoning Engine for Lifestyle Profiling in Support of Personalised Coaching
Sara Mikolajczak, Tom Ruette, Elena Tsiporkova, Milena Angelova, Veselka Boeva

Detection and Classification of the Basic Emotions Using a Multimodal Approach for Emotions Detection
Chaka Koné, Cecile Belleudy, Imen Tayari Meftah, Nhan Le-Thanh

SEMAPRO 2015, The Ninth International Conference on Advances in Semantic Processing

SEMAPRO 1: Ontology fundamentals
Session chair: Artem Katasonov

Assessing Legislative Alignment – An Ontological Approach
Rosetta Romano

Storing and Querying Ontologies in Relational Databases: An Empirical Evaluation of Performance of Database-Based Ontology Stores
Raoul Kwuimi, Jean Vincent Fonou-Dombeu

Matching Terminological Heterogeneous Ontologies by Exploiting Partial Alignments
Frederik Christiaan Schadd, Nico Roos

From a Consensual Conceptual Level to a Formal Ontological Level: A Case Study in Healthcare Organizations
Fabrício Mendonça, Maurício Almeida, António Soares, Cristóvão Sousa

SEMAPRO 2: Semantic applications/platforms/tools
Session chair: Alex Cheptsov

News Curation Service Using Semantic Graph Matching
Ryohei Yokoo, Takahiro Kawamura, Yuichi Sei, Yasuyuki Tahara, Akihiko Ohsuga

Temporal RDF System for Power Utilities
Mohamed Gaha, Arnaud Zinflou, Alexandre Bouffard, Luc Vouligny, Mathieu Viau, Christian Langheit, Etienne Martin

DataBearings: An Efficient Semantic Approach to Data Virtualization and Federation
Artem Katasonov

Semantic Location Models for Bioenergy and Biofuel Projects
Krishna Sapkota, Pathmeswaran Raju, William Byrne, Craig Chapman, Lynsey Melville

SEMAPRO 3: Semantic technologies
Session chair: Luc Vouligny

A Semantic Data Fragmentation Approach for RDF Data Management
Meisam Booshehri, Peter Luksch

τOWL-Manager: A Tool for Managing Temporal Semantic Web Documents in the τOWL Framework
Abir Zekri, Zouhaier Brahmia, Fabio Grandi, Rafik Bouaziz

Semantic OLAP with FluentEditor and Ontorion Semantic Excel Toolchain
Dariusz Dobrowolski, Pawel Kaplanski, Andrzej Marciniak, Zdzislaw Lojewski

Information Extraction from Unstructured Texts by Means of Syntactic Dependencies and Constituent Trees
Raoul Schönhof, Axel Tenschert, Alexey Cheptsov

SEMAPRO 4: Basics on semantics
Session chair: Michal Ciesielczyk

Data-driven Context Discovery Model for Semantic Computing in the Big Data Era
Takafumi Nakanishi

Data Management in Cyber-Physical Work Environments
Michael Clauß, Janek Götze, Marcus Hofmann, Egon Müller, Christian-Andreas Schumann

Mobile Queries using Semantic Processing into Augmented Reality
Itzel Coral, Miguel Martínez, Félix Mata Rivera, Roberto Zagal Zagal, Consuelo Garcia

Deep Learning for Large-Scale Sentiment Analysis Using Distributed Representations
Kazuhei Katoh, Takashi Ninomiya

SEMAPRO 5: Models and ontology-based design of protocols, architectures and services
Session chair: Michael Clauß

Modelling of an Ontology for a Communication Platform
Jürgen Moßgraber, Manfred Schenk, Desiree Hilbring

Text Document Clustering for Topic Discovery by Hypergraph Construction
Wei-San Lin, Charles Chih-Ho Liu, I-Jen Chiang

Ontology-Based Adaptive Information System Framework
Louis Bhérer, Luc Vouligny, Mohamed Gaha, Billel Redouane, Christian Desrosiers

Application of the Tensor-Based Recommendation Engine to Semantic Service Matchmaking
Andrzej Szwabe, Michal Ciesielczyk, Pawel Misiorek, Michal Blinkiewicz

On Establishing Behaviorally Adoptive Semantic Narratives
Jason Bryant, Matthew Paulini, Gregory Hasseler, Norman Ahmed

UBICOMM 2015, The Ninth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies

UBICOMM 1: Information ubiquity
Session chair: Pei-Chann Chang

Sensing by Proxy: Occupancy Detection Based on Indoor CO2 Concentration
Ming Jin, Nikolaos Bekiaris-Liberis, Kevin Weekly, Costas Spanos, Alexandre Bayen

Usability Evaluation Approaches for (Ubiquitous) Mobile Applications: A Systematic Mapping Study
Rodrigo A. Cruz Reis, Ludymilla L. A. Gomes, Arilo Claudio Dias-Neto, Awdren de L. Fontão

Extension of Sikuli Tool to Suport Automated Tests to Windows Phone Context-Aware Applications
Elizângela Santos da Costa, Rodrigo dos Anjos Cruz Reis, Arilo Claudio Dias Neto

On an EAV Based Approach to Designing of Medical Data Model for Mobile HealthCare Service
Alexander Borodin, Yulia Zavyalova

Understanding Individual's Behaviors in Urban Environments
Claudia Liliana Zúñiga-Cañón, Juan Carlos Burguillo

UBICOMM 2: Ubiquitous multimedia systems and processing
Session chair: Alexander Borodin

Adaptive Streaming Scheme for Improving Quality of Virtualization Service
Sunghee Lee, Kwangsue Chung

Pervasive Social Network
Alexiei Dingli, Daniel Tanti

A Robust Model for Person Re-Identification in Multimodal Person Localization
Thi Thanh Thuy Pham, Thi Lan Le, Trung Kien Dao, Duy Hung Le, Van Toi Nguyen

Analyzing Consumer Loyalty of Mobile Advertising: A View of Involvement, Content, and Interactivity and the Mediator of Advertising Value
Wei-Hung Hsiao, Shwu-Ming Wu, Ing-Long Wu

UBICOMM 3: Ubiquitous mobile services and protocols
Session chair: Herault Colombe

SUMMIT: Supporting Rural Tourism with Motivational Intelligent Technologies
Mei Yii Lim, Sarah M Gallacher, Nicholas K Taylor

Smart Spaces Approach to Development of Recommendation Services for Historical e-Tourism
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QoS-Based Fairness-Aware Downlink Scheduling in LTE-Advanced [PRESENTATION]
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UBICOMM 4: Ubiquitous software and security
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Julian Kalinowski, Lars Braubach

Fortifying Android Patterns using Persuasive Security Framework
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An Architecture for Self-healing in Internet of Things
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Object Location Estimation from a Single Flying Camera
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Generating Arbitrary View of Vehicles for Human-assisted Automated Vehicle Recognition in Intelligent CCTV Systems
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Towards a Reliable and Personalized Disaster Warning System
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APEC: Auto Planner for Efficient Configuration of Indoor Positioning Systems
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Intelligent Manufacturing based on Self-Monitoring Cyber-Physical Systems
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Collaborative Detection with Uncertain Signal Distributions in Wireless Sensor Networks
Tai-Lin Chin, Jiun-Hao Chen, Cheng-Chia Huang

Delay prediction approach for cyclic mobility models in Ad hoc networks
Jihen Bokri, Sofiane Ouni, Leila Saidane

Advertising Method via Smart Device Based on High Frequency
Myoungbeom Chung, Green Bang, Ilju Ko

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MAP-Based Error Correction Mechanism for Five-Key Chording Keyboards
Adrian Tarniceriu, Bixio Rimoldi, Pierre Dillenbourg

DDAAV - Detector Student Performance
Andreia Rosangela Kessler Mühlbeier, Aderson de Carvalho, Roseclea Duarte Medina, Fabiana Santiago Sgobbi, Liane Margarida Rockenbach Tarouco

Efficient Algorithms for Accuracy Improvement in Mobile Crowdsensing Vehicular Applications
Saverio Delpriori, Valerio Freschi, Emanuele Lattanzi, Alessandro Bogliolo

How Internet of Thing Makes the Energy Grid Smart
Giampaolo Fiorentino, Antonello Corsi, Pietro Fragnito

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