

**IADIS International Conferences**  
**Informatics –WAC - TNS 2011**  
**CONFERENCE PROGRAM**

**Wednesday 20<sup>th</sup>, July 2011**

**08:00-18:45 Welcome Desk**

**11:45-12:00 Session O – Opening Session**  
**(Room Space 4A)**

**OPENING SESSION**

*Prof. Pedro Isaías, Prof. Hans Weghorn and Prof. Jörg Roth*

**12:00-13:00 Session KL1 – Keynote Presentation**  
**(Room Space 4A)**

**EARLY WARNING SYSTEMS FOR NATURAL DISASTERS:  
ORPHAN NODES AND HOPPING SENSORS**

*Prof. Saman K. Halgamuge, University of Melbourne, Australia*

**13:00-14:30 Lunch Break**

**14:30-16:20 Session FSP 20.1**

**Adaptive systems // Other**  
**(Room Space 4A)**

**Chair: Saman K. Halgamuge**

**CHALLENGES IN ADAPTIVE SYSTEMS DESIGN: THE  
CASE OF E-ENABLED PERFORMANCE MANAGEMENT  
(F064)**

*Polyxeni Vassilakopoulou and Theodore Darmaros*

**ALGORITHM TO OPTIMIZE THE POWER CONSUMPTION  
OF SCALABLE CLUSTERS GUARANTEEING RESPONSE  
TIMES (F017)**

*Daniel F. García, Ramón Medrano and Joaquín Entrialgo*

**THE IMPACT OF ENVIRONMENTAL DYNAMISM ON THE  
EFFECTIVENESS OF SISP: A COMPARATIVE STUDY OF  
MANUFACTURING AND NON-MANUFACTURING  
MEDIUM ENTERPRISES (F063)**

*Luka M. Musangu and Ray M. Kekwaletswe*

**ONLINE VERSUS OFFLINE CRITICAL GEOGRAPHIC  
INFORMATION SYSTEM (S031)**

*Jan Hodicky and Petr Frantis*

**16:30-17:00 Coffee Break**

**17:00-18:40 Session FSP 20.2**

**Context Aware Applications // Integration of Wired and  
Wireless Networks // 'Pervasive Computing**

**(Room Space 4A)**

**Chair: Jörg Roth**

**ALTERNATIVE QUERY DISCOVERY FROM THE WEB  
FOR DAILY MOBILE DECISION SUPPORT (F026)**

*Shun Hattori*

**AN IMPROVED ENERGY EFFICIENT APPROACH FOR  
WSN BASED TRACKING APPLICATIONS (F031)**

*Tareq Alhmiedat and Shuang-Hua Yang*

**MOBILE DETECTION OF SOCIAL SITUATIONS WITH  
TURN-TAKING PATTERNS (S042)**

*Georg Groh, Alexander Lehmann and Manuel de Souza*

**A SERVICE DISCOVERY PROTOCOL FOR WIRELESS  
MESH NETWORKS (S033)**

*Omowonuola Saka and Chris Guy*

**Thursday 21<sup>st</sup>, July 2011**

**08:00-16:00 Welcome Desk**

**09:20-11:00 Session FP 21.1**

**Algorithms // Mobile Service-oriented architecture //  
Software engineering**

**(Room Space 4A)**

**Chair: Hans Weghorn**

**AN O(N) APPROXIMATION FOR THE DOUBLE BOUNDING  
BOX PROBLEM (F015)**

*Jörg Roth*

**HYBRID FUZZY CLASSIFIER DESIGN WITH  
COEVOLUTIONARY GENETIC ALGORITHM (F022)**

*Roman B. Sergienko, Eugene S. Semenkin and Vladimir V.*

*Bukhtoyarov*

**A QOS-AWARE APPROACH FOR WEB SERVICE  
SELECTION BASED ON PROBABILITY EVALUATION  
(F019)**

*Dessislava Petrova-Antonova*

**A DOMAIN SPECIFIC LANGUAGE TO REPRESENT  
STRUCTURED DATA FOR MULTIPLE PROGRAMMING  
LANGUAGES (P065)**

*Kazunaki Maeda*

**11:00-11:30 Coffee Break**

**11:30-13:10 Session FSP 21.2**

**Networking: architectures, services, routing, and  
applications // Sensor, mesh, and ad hoc networks //**

**Other**

**(Room Space 4A)**

**Chair: Jörg Roth**

**QOS PROVISIONING IN CONTENTION AWARE MANETS  
USING FLOW-AWARE ADMISSION CONTROL  
PROTOCOL (F021)**

*Muhammad Asif, Zhili Sun, Haitham Cruickshank and Naveed  
Ahmad*

**THE SHAPE OF THINGS TO COME: SCENARIOS AND  
VISUAL STORIES FOR TELECOMMUNICATION IN 2020  
(F029)**

*Henning Breuer, Hartwig Grabowski and Heinrich Arnold*

**ENHANCED SIMPLE FAIR EXECUTION TIME  
ESTIMATION (ESFETE) SCHEDULING ALGORITHM FOR  
GRID SCHEDULER (S044)**

*Rohaya Latip and Adam Malik Sahar*

**A PROPOSAL OF ACCESS-BASED CONTENTS GROUPING  
ON P2P NETWORK (S022)**

*Takuya Sasaki, Jun Sawamoto and Yuji Wada*

**13:00-14:30 Lunch Break**

**14:30-15:30 Discussion Forum  
(Room Space 4A)**

**THEORY AND PRACTICE IN MODERN COMPUTING**  
*Prof. Hans Weghorn and Prof. Jörg Roth*

**15:45 Conference Tour and Dinner**

## **Friday 22<sup>nd</sup> July 2011**

**08:30-14:00 Welcome Desk**

**09:50-11:00 Session FSP 22.1**  
**Software development // Distributed systems**  
**(Room Space 4A)**  
**Chair: Philippe Martin**

**AGILE DATA WAREHOUSING: THE SUITABILITY OF SCRUM AS DEVELOPMENT METHODOLOGY (F035)**  
*Roelien Goede*  
**REVIEW OF QUERY PROCESSING IN DISTRIBUTED SYSTEMS (S021)**  
*Dinesh K. Saini, Nebras N. Hasson, Feras N. Hasoon and Mustafa Hasan*  
**GRAPH-BASED AUTHENTICATION ALGORITHMS FOR VEHICULAR AD-HOC NETWORKS (S057)**  
*P. Caballero-Gil, C. Caballero-Gil and J. Molina-Gil*

**11:00-11:30 Coffee Break**

**11:30-12:30 Session FRP 22.2**  
**Computer science in practice // Other**  
**(Room Space 4A)**  
**Chair: Hans Weghorn**

**INTEROPERABLE PROCESS MONITORING USING CLINICAL IT-STANDARDS AND HEALTHCARE INFORMATION SYSTEMS (F047)**  
*Eva Gattnar, Okan Ekinci and Vesselin Detschew*  
**THE ROLE OF INFORMATION TECHNOLOGY ON SUCCESSFUL KNOWLEDGE SHARING IN KNOWLEDGE MANAGEMENT PROJECTS: CASE STUDY (R052)**  
*Lila Rajabion, Azadeh Kheirabadi, Alireza Khanjari and Kamran Rezaei*  
**SOME KNOWLEDGE NORMALIZATION METHODS (P043)**  
*Philippe Martin*

**12:30 Best Paper Awards Ceremony and Closing Session**  
**(Room Space 4A)**

*Prof. Pedro Isaías, Prof. Hans Weghorn and Prof. Jörg Roth*