

# IADIS International Conference e-Health 2010

## PRELIMINARY CONFERENCE PROGRAM

**Thursday 29<sup>th</sup>, July 2010**

**08:30-17:00 Welcome Desk**

**09:30-10:00 Session O – Opening Session  
(Room: 1221)**

**OPENING SESSION**

*Prof. Pedro Isaías and Mário Macedo*

**10:00-11:00 Session KL1 – Keynote Presentation  
(Room: 1221)**

*Dr Paul A Amos BSc, MB BS, Information Standards Board for Health and Social Care in England, UK*

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

**11:30-13:20 Session FSP 29.1  
Interoperability Issues // IT and Patient Care  
(Room: 1221)**

**A FRAMEWORK FOR SEMANTIC INTEROPERABILITY OF MEDICAL OBSERVATIONS (F018)**

*Idoia Berges, Jesús Bermúdez, Arantza Illarramendi, Pablo López-García*

**AN INVESTIGATION OF SEMANTIC LINKS TO ARCHETYPES IN AN EXTERNAL CLINICAL TERMINOLOGY THROUGH THE CONSTRUCTION OF TERMINOLOGICAL “SHADOWS” (F019)**

*Sheng Yu, Damon Berry and Jesús Bisbal*

**STANDARD-BASED, OPEN-SOURCE TELECARE SYSTEM FOR RESIDENTIAL ENVIRONMENTS (F035)**

*Jaime Martín, Mario Ibáñez, Natividad Martínez Madrid and Ralf Seepold*

**EXPLAINING THE ADOPTION OF PERSONAL HEALTH RECORDS WITH HEALTH BELIEF MODEL: AN EXAMPLE OF STROKE (S028)**

*Sophie Huey-Ming Guo, Yung-Hsiu Lin, Rong-Rong Chen and Her-Kun Chang*

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

**14:30-16:50 Session FSP 29.2  
eHealth to Improve Quality and Patient Safety // Mobile Applications  
(Room: 1221)**

**HEALTH ALERTS: INTERACTION PROTOCOLS IN REMOTE HEALTH CARE MONITORING (F044)**

*Nor Faizah Ahmad, Minh Hoang Phung and Doan B. Hoang*

**DOCUMENT MANAGEMENT SYSTEM USING WIRELESS RFID TECHNOLOGY FOR INTELLIGENT HEALTHCARE OPERATIONS (F089)**

*Saisakul Chermumroong, Anthony S. Atkins and Hongnian Yu*

**APPLICATION OF MOBILE TECHNOLOGIES AND STUDY OF INTERFERENCES IN REMOTE MONITORING OF PATIENTS WITH CHRONIC DISEASES (F074)**

*Jaime Galán-Jiménez, Alfonso Gazo-Cervero, José-Luis González-Sánchez and Javier Carmona-Murillo*

**EASSESSMENT OF MOBILE SOFTWARE FOR HOME HEALTH CARE PROVIDERS IN GERMANY (F037)**

*Simone Binner*

**MONITORING OF MENTAL WORKLOAD LEVELS (S073)**

*Burcu Cinaz, Roberto La Marca, Bert Arnrich and Gerhard Tröster*

**14:30-16:25 Session FSRP 29.3**

**Clinical Information Systems // Interoperability Issues // Other**

**(Room: 1108)**

**APPLIED SOA PARADIGMS FOR MEDICAL EQUIPMENT MAINTENANCE (F030)**

*Andreas Zeidler, Thomas Baumgarth, Ludwig Mittermeier and Regine Meunier*

**A MEDICAL INTEROPERABILITY ARCHITECTURE (F088)**

*Bruno Alves and Michael Schumacher*

**DEVELOPMENT OF A MEDICAL IMAGE**

**PROCESSING/ANALYSIS SOFTWARE SPECIALLY**

**OPTIMIZED FOR STROKE CLINICAL STUDY (S063)**

*Kyoung-Jong Park, Tae-Yun Kim, Hyun Ju Choi, Sang-Wuk Jeong,*

*Dong-Eog Kim and Heung-Kook Choi*

**ONLINE DIRECT-TO-CONSUMER GENETIC TESTING:**

**ANALYSIS OF THE WEBSITES (S091)**

*Loredana Covolo, Georgia Martignone, Grazia Orizio, Luigi Caimi,*

*Peter Schulz and Umberto Gelatti*

**INTEGRATION OF ELECTROPHYSIOLOGICAL DATA OF**

**VISION IN AN OPEN SOURCE DICOM VIEWER (R038)**

*Torsten Strasser, Markus Brenner, Stefan Hell, Umut Oezleyen,*

*Ulrich Wiedemann and Maximilian Schmitz*

**Friday 30<sup>th</sup>, July 2010**

**08:30-17:00 Welcome Desk**

**09:00-11:15 Session FRP 30.1  
Web Based Applications // Human Computer Interaction  
(Room: 1221)**

**MULTIPLE HELP ONLINE: AN INTEGRATED E-HEALTH SYSTEM FOR STRESS MANAGEMENT (F079)**

*Åsa Smedberg and Hélène Sandmark*

**USAGE OF E-HEALTH SERVICES: EXAMINING THE AGE**

**DIFFERENCES IN INDIVIDUAL DECISIONS (F097)**

*Pallavi Rao, Shalini Chandra and Yin-Leng Theng*

**WEB, MOBILE AND MONITORING TECHNOLOGIES IN**

**SELF-MANAGEMENT OF PSYCHOPHYSIOLOGICAL**

**WELLBEING: USAGE AND USER EXPERIENCES (F099)**

*Kirsikka Kaipainen, Elina Mattila, Antti Väättänen, Antti P.*

*Happonen, Ilkka Korhonen, Marja-Liisa Kinnunen, Tero Myllymäki,*

*Päivi Lappalainen, Henna Hoffren, Heikki Rusko, Raimo*

*Lappalainen*

**AN EMPIRICAL STUDY OF PRE-ADOPTION VIEWS OF**

**ELECTRONIC MEDICAL RECORD SYSTEMS BY**

**CANADIAN MEDICAL PRACTITIONERS (F062)**

*Mihail Cocosila and Norm Archer*

**ESSENTIAL UX METRICS TO BE CONSIDERED WHEN**

**DESIGNING M-HEALTH APPLICATIONS IN ORDER TO**

**PROVIDE POSITIVE USER EXPERIENCES (R100)**

*Stella Ouma, Marlien Herselman and Darelle Van Grauen*

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

**11:30-13:10 – Session FSP 30.2  
Health Informatics and Education  
(Room: 1221)**

**USER ADOPTION OF WIRELESS TEXT MESSAGING FOR SMOKING CESSATION: RISKS OF USING AND OF NOT USING (F041)**

*Mihail Cocosila*

**TEXTURE-BASED 3D IMAGE RETRIEVAL FOR MEDICAL APPLICATIONS (F069)**

*X. Gao, Y. Qian, R. Hui, M. Loomes, R. Comley, B. Barn, A. Chapman and J. Rix*

**RATIONALE AND DESIGN OF A RANDOMISED CONTROLLED TRIAL ASSESSING THE EFFECTIVENESS OF WEB INTERVENTION FOR IMPROVING THE HEALTHY LIFESTYLES OF CHILDREN AND ADOLESCENCE (S094)**

*Siti N. Maon, Sisira Edirippulige, Jennifer Batch and Robert S. Ware*

**WHAT DRIVES E-HEALTH INNOVATION IN THE HEALTHCARE SECTOR? (S066)**

*Li-min Lin, Yi-Cheng Chen, Jen-Her Wu and Wen-Tung Hung*

**11:30-13:00 – Posters Session**

**DEVELOPING INFORMATION SERVICES FOR THE SOCIAL SOLIDARITY INSTITUTIONS (P022)**

*Alexandra Queirós, Sandro Carlos Santos de Carvalho, João Agostinho Pavão and Nelson Fernando Pacheco da Rocha*

**HEALTHCARE QUALITY INDICATORS: A REVIEW FROM 2007 TO 2009 (P025)**

*Rong-Rong Chen, Sophie Huey-Ming Guo, Yung-Hsiu Lin and Her-Kun Chang*

**PROGRESS IN E-HEALTH: A COMPARATIVE RESEARCH BETWEEN JAPAN AND TAIWAN EHR POLICY (P031)**

*Siti N. Maon, Sisira Edirippulige, Jennifer Batch and Robert S. Ware*

**INTERNET USE FOR HEALTH: SOCIALLY CONVENIENT COMMUNICATION TECHNOLOGIES SUPPORT MEDICAL AND DENTAL CARE (P049)**

*Valerie J. H. Powell, Franklin Din, Miguel Humberto Torres-Urquidy, Allan G. Farman, Amit Acharya, Rose Y. Geist and James R. Geist*

**GAIT ASSESSMENT USING A PORTABLE ACCELERATION MONITOR (P077)**

*Naruhiko Shiozawa, Shima Okada and Masaaki Makikawa*

**HOSPITALS AS LEARNING ORGANIZATIONS (P106)**

*Lars Rölker-Denker*

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

**14:30-16:55 Session FSRP 30.3  
eHealth Decision Support Systems // Intelligent Medical Systems  
(Room: 1221)**

**THE DESIGN AND DEVELOPMENT OF A MEDICAL KNOWLEDGE MINING SYSTEM (F090)**

*Nittaya Kerdprasop and Kittisak Kerdprasop*

**CRITICAL FACTORS IN THE ADAPTATION OF THE NATIONAL HEALTH SERVICE (NHS) TO THE INFORMATION SOCIETY IN FIFE (F081)**

*Elena Beratarbide*

**CREATING TOOLS AND TRIAL DATA SETS FOR SMART HOME RESEARCHERS: EXPERIMENTING ACTIVITIES OF DAILY LIVING WITH NORMAL SUBJECTS TO COMPARE WITH ALZHEIMER'S PATIENTS (F068)**

*H. Laprise, J. Bouchard, B. Bouchard, A. Bouzouane*

**DIGITAL MONITORING OF CHANGES IN SKIN LESIONS (S020)**

*Marc Geilhufe, Stein Olav Skrøvseth and Fred Godtliobsen*

**A HYBRID INTELLIGENT DECISION SUPPORT SYSTEM FOR SWINE FLU (S086)**

*Ashraf Mohammed Iqbal, Musfiq Rahman, Rezaul Karim and Mohammed Al-Khatari*

**CHANGES IN PERFORMANCE OF COMPUTER-ASSISTED DIAGNOSIS AND CANCER IMAGING OVER TIME (R070)**

*Leila H. Eadie, Paul Taylor and Adam P. Gibson*

**14:30-16:40 Session FSP 30.4  
eHealth to Improve Quality and Patient Safety // Healthcare Information Systems Regulatory Issues // Security in eHealth // Other  
(Room: 1139)**

**SAFETY AND TRACEABILITY OF CLINICAL AND RESEARCH PROCESSES ENABLED BY INTEGRATED INFORMATION SYSTEMS AND PERVASIVE RFID TECHNOLOGY (F036)**

*Elena Sini, Michele Torresani, Paolo Locatelli and Nicola Restifo*

**IT GOVERNANCE AND ITS SPREAD IN SWISS HOSPITALS (F055)**

*Mike Krey, Bettina Harriehausen, Matthias Knoll and Steven Furnell*

**NON-RESTRICTIVE SLEEP MONITOR METHOD FOR CHILDREN USING VIDEO IMAGES (F072)**

*Shima Okada, Naruhiko Shiozawa and Masaaki Makikawa*

**HIPAA BASED HEALTHCARE INFORMATION SECURITY QUALITATIVE ASSESSMENT APPLICATION OF INFORMATION SECURITY FOR SAUDI HOSPITALS (S095)**

*Nabil A. Alrajeh*

**CUSTOMIZING HOME TELE-MONITORING SYSTEMS FOR CHRONIC DISEASES (S032)**

*Pablo López-García, Jesús Bermúdez, Arantza Illarramendi, Idoia Berges*

**20:00 Conference Dinner**

**Saturday 31<sup>st</sup> July 2010**

**08:30-13:45 Welcome Desk**

**09:00-10:00 Session SP 31.1  
Healthcare Data Architecture Standards // Patient Electronic Health Records  
(Room: 1139)**

**A CLINICAL INVESTIGATION ON MEDICAL DEVICE: A DATA MODEL BASED ON HL7 REFERENCE INFORMATION MODEL (S080)**

*Fabrizio Pecoraro, Mariangela Contenti and Daniela Luzi*

**HARMONIZATION OF HL7 AND OPEN-EHR DATA TYPES (S043)**

*Ashraf Mohammed Iqbal and Michael Shepherd*

**AUTHORIZATION IN CLOUD E-PRESCRIBING SERVICES (S050)**

*Vassiliki Koufi, Flora Malamateniou and George Vassilacopoulos*

**10:00-11:00 – Doctoral Consortium  
(Room: 1139)**

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

**11:30-13:25 Session FSRP 31.2**  
**eHealth Virtual Communities // eHealth 2.0**  
**(Room: 1139)**

**VIRTUAL PROFILE, REAL PATIENT: IN THE DYNAMIC  
WORLD OF ONLINE SOCIAL NETWORKS CRITICISMS  
STAND STILL (F101)**

*Grazia Orizio, Peter J Schulz, Loredana Covolo, Cinzia Gasparotti,  
Luigi Caimi and Umberto Gelatti*

**A FRAMEWORK FOR ADAPTING A PATIENT-CENTERED  
ENVIRONMENT THROUGH MASHUPS (F046)**

*Payam Sadeghi, Morad Benyoucef and Craig Kuziemy*

**DEVELOPING VIRTUAL MEDICAL COMMUNITIES (S017)**

*Niki Panteli and Julian Sims*

**AD-HOC VIRTUAL COMMUNITIES FOR  
REHABILITATION EXERCISING (S105)**

*Lamia Elloumi, Christophe Gravier and Pierre Maret*

**MAINTAINING LONG-TERM BEHAVIOUR CHANGE: A  
ROLE FOR INFORMAL ONLINE SOCIAL SUPPORT? (R065)**

*Zemin Chen and Dr. Debbie Keeling*

**13:25 Best Paper Awards Ceremony and Closing Session**  
**(Room: 1139)**

*Prof. Pedro Isaías and Mário Macedo*