

IADIS International Conference e-Health 2010

PRELIMINARY CONFERENCE PROGRAM

Thursday 29th, 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 30th, 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 Godtlielsen

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 31st 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