EMMIT 2012

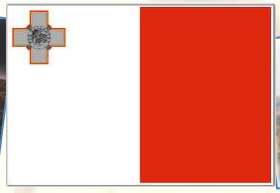
EURO-MEDITERRANEAN
MEDICAL INFORMATICS and TELEMEDICINE

8th International Meeting

December17-19, 2012

Bighi Hospital (Old Military Hospital), Malta

Organized by
International Institute of TeleMedicine -IITM
in cooperation with the MDH Hospital in Malta



PROGRAMME

Monday, December 17th

8.30 PARTECIPANTS REGISTRATION:

9.30 OPENING CEREMONY "WHERE WE ARE"(FACILITATED BY C. AXIAK AND M. CASHA)

- DR JOE CASSAR (MINISTER OF HEALTH OF MALTA GOVERNMENT) – INVITED
- PROF. ELIO CARDINALE (UNDER SECRETARY OF HEALTH, ITALIAN GOVERNMENT)– INVITED
- JOE SCHIRO (HEAD OF CONSERVATION, HERITAGE MALTA)
- JOSEPH CARUANA (CHIEF EXECUTIVE OFFICER OF MATER DEI HOSPITAL)
- MICHAEL GONZI (DIRECTOR OF INFORMATION MANAGEMENT & TECHNOLOGY)
- PAUL BEZZINA (COORDINATOR OF RADIOGRAPHY COURSES, FACULTY OF HEALTHCARE, UOM)
- FRANCESCO SICURELLO (CHAIRMAN OF **EMMIT**, PRESIDENT OF **IITM**).

10.30 **SESSION I: SPECIAL SESSION ON:** TELEMEDICINE AND E-HEALTH IN EUROPE AND IN MEDITERRANEAN AREA AFTER THE ARAB SPRING (**Chairs: F. Sicurello, Abdel-Badeeh M. Salem)**

- HUGO AGIUS MUSCAT (DIRECTOR OF E-HEALTH, MINISTRY OF HEALTH, MALTA)
- PIERPAOLO SAPORITO (PRESIDENT **OCCAM**, UNITED NATIONS)
- CHRISTIAN AXIAK (**RIS PACS** MANAGER, MATER **DEI** HOSPITAL, MALTA)
- RENATO CARUSO (CERISDI, PALERMO, ITALY)
- SANA DAYA MARINI (AMERICAN UNIVERSITY OF BEIRUT)
- MOHAMED ABDALLA (SENIOR ADVISOR OF **ITU**) – BY TELECONFERENCE

12.45 LUNCH BREAK

14.00 **SESSION II:** TELEMEDICINE SYSTEMS & TELE-CARE SERVICES (**Chairs: Michael Gonzi, Mark Borg)**

- **Telediagnostics for school screening for scoliosis and other faulty postures – organizational, technical and clinical aspects**; I. Bożena Glinkowska, Wojciech Glinkowski1, Robert Sitnik2, Jakub Michoński2, Katarzyna Walesiak1**, Agnieszka Żukowska1***(1Medical University of Warsaw, *Department of Sports and Physical Education, **Chair and Department of Orthopaedics and Traumatology of Locomotor System, Center of Excellence "TeleOrto, ***Student's Scientific Club - "TeleHealth", Medical University of Warsaw, 2Institute of Micromechanics and Photonics, Warsaw University of Technology, Warsaw, 3Polish Telemedicine Society, Warsaw, Poland)
- **Telecardiology for preventing sudden cardiac death in young people: an Italian high schools pilot study;** Igino Genuini, Francesco Fedele, Alessandra D'Ambrosi, Elisa Silvetti ('Sapienza' University of Rome, Department of Cardiovascular, Respiratory, Nephrological and Geriatic Sciences), Claudio De Lazzari (CNR, Institute of Clinical Physiology, U.O.S. of Rome), Domenico M. Pisanelli (CNR, Institute of Cognitive Science and Technologies, Rome, Italy)
- **Telemedicine and territory: a new experience of telecardiology in an airport area;** Francesco Maiuri (National Research Council, Construction Technologies Institute, Unit of Rome Area Ricerca RM1 Monterotondo Staz., Rome, Italy).
- **TELESCOPE – A EU-funded project for Telehealth Services towards a Code of Practice for Europe;** Luigi Biocca, Francesco Maiuri, Annalisa Morini, Nicolò Paraciani (National Research Council, Construction Technologies Institute, Unit of Rome Area Ricerca RM1 – Monterotondo Staz. – Rome, Italy)
- **The use of Smart Mobile Technology in reducing burden for Caregivers of wandering persons with Dementia;** Colin Cachia, Conrad Attard (Department of Computer Information Systems, University of Malta - Msida, Malta), Matthew Montebello (Department of Computer Science & Artificial Intelligence, University of Malta - Msida, Malta)
- **Telecare experiences and projects;** Alessandro Donzelli, Francesco Sicurello (EMMIT/IITM)

15.45 COFFEE BREAK (FILM ON BIGHI HOSPITAL)

16.00 **Session III:** INTELLIGENT INFORMATION SYSTEMS AND ICT MEDICAL APPLICATIONS CLINICAL **(chairs: Francis Zarb, Wojciech Glinkowski)**

- **Clinical Business Intelligent Solution**; Khaled Mahar (Dean College of Computing and Information Technology), Mahmoud Farok (Associate Prof. of Information Technology College of Computing and Information Technology), Wael Mohamed Bakry (Master of Science Student in Information Systems AASTMT College of Computing and Information Technology, AASTMT, Alexandria, Egypt)
- **InFSE – A Federated Infrastructure for EHR System Interoperability in Italy;** Giuseppe De Pietro, Mario Ciampi (ICAR-CNR, Naples, Italyi)
- **Internet based medical surveying system – an expanding clinical research tool**; Wojciech Glinkowski 1,2, Bartłomiej Łukasik1, Krzysztof Marasek2 (1Chair and Department of Orthopaedics and Traumatology of Locomotor System, Center of Excellence "TeleOrto", Medical University of Warsaw, 2 Polish-Japanese Institute of Information Technology, 3Polish Telemedicine Society)
- **Roots and Present Stage of Digital Pathology: from Stereology to Predictive Diagnosis;** Klaus Kayser*, Stephan Borkenfeld**, Amina Djejouni***, Gian Kayser****,(*Charite, University of Berlin, Berlin, Germany, **IAT, Heidelberg, Germany, ***Institute of Pathology, Bata, Algeria, ***Institute of Pathology, University of Freiburg, Freiburg, Germany)
- **OnceUpon a Time the Book of Technical: a Dematerialisation Experience;** Patrizia Colangeli, Enzo Ruggieri, Maria Teresa Mercante, Lucilla Ricci (Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale", Teramo, Italy)
- **Software engine for dynamic web forms generation in the Italian National Information System for Veterinary Food Safety**; Walter Di Donato, Diana Palma, Mara Cianella (Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" Teramo, Italy), Giulio Grosso (Reply Whiteall S.p.a)

Tuesday, December 18th

9.00 **SESSION IV:** MEDICAL KNOWLEDGE ENGINEERING AND VIRTUAL REALITY IN MEDICINE **(chairs: Christian Axiak, Sana Daya Marini)**

- **Correlation-based Classification of Renal Cell Carcinoma Urinary Peptide Profiles**; Italo Zoppis1, Erica Gianazza2, Clizia Chinello2, Fulvio Magni2 and Giancarlo Mauri1 (1Department of Informatics, University of Milano Bicocca, 2Department of Medicine, University of Milano Bicocca, Milan, Italy)
- **Case Based Reasoning Technology in Cancer Informatics**; Abdel-Badeeh M. Salem (Head of BioMedical Informatics and Knowledge Engineering Research Lab, Faculty of Computer and Information sciences, Ain Shams University, Abbasia, Cairo-Egypt)
- **A Study on Ontological Engineering Approach for Bioinformatics;** Marco Alfonse, Abdel-Badeeh M. Salem (Computer Science Department, Faculty of Computers & Information Sciences, Ain Shams University, Cairo, Egypt); Kenneth Revett (Software Engineering Dept., Faculty of Informatics and Computer Science, British University in Egypt)
- **EUBIROD technology real-life application: Hypertension in newly diagnosed diabetes;** S. Pruna1, A. Bealle1, C. Purtll1, D. Licaroiu2, V. Cristescu and C. Ionescu-Tirgoviste2 (1Telemedica Consulting, Health Information Systems, Bucharest, Romania. 2Institute of Diabetes "N. Paulescu", Bucharest, Romania)
- **An Augmented Reality Application for the Treatment of the Liver Tumors**; Lucio Tommaso De Paolis (Department of Engineering for Innovation University of Salento, Italy)

10.45 **Coffee Break**

11.00 **SESSION V – SPECIAL SESSION/TUTORIAL:** BIO-IMAGES COMPUTING AND RIS-PACS INTEGRATION INTO HIS **(Chairs: Paul Bezzina, Klaus Kaiser)**

- **Integration of institutions into a National Digital Health Network,** Christian Axiak (RIS-PACS manager, MDH, Malta)
- **Automatic Dose extraction from RIS/PACS System,** Riccardo Orsini (RIS-PACS manager, Lucca Hospital)
- **e-health & a cloud project implimented by GE,** Gianluca Deglistefani (Marketing Manager of GE)
- **Integrated PACS Systems; Ray Magri** (AGFA Healthcare, Malta).

- **The use of OsiriX in Radiology Department. The experience of Montescano Institute**, IRCCS S. Maugeri Foundation; Gabriele Concordia (CTO - Traumatological Clinic Center, Milan, Italy)

12.30 **CONCLUSION, REMARKS AND EMMIT 2013 (MOROCCO) PRESENTATION**

13.00 **LUNCH BREAK**

14.00 **POST CONFERENCE TUTORIAL 1**: ARTIFICIAL INTELLIGENCE TECHNIQUES IN MEDICINE AND HEALTH CARE

Topics:

1. Expert systems for Cancer and Heart Diagnosis.
2. Case-Based Reasoning for Cancer and Heart Diagnosis
3. Ontological Engineering Approach for Breast Cancer Knowledge Management,
4. Grid Computing For Healthcare Technologies / Applications
5. Genetic Algorithms Approach For Mining Medical Data.
6. Mining Patient Data Based on Rough Set Theory To Determine Thrombosis Disease .
7. Brain Tumor Diagnosis using Neural Networks."

Teachers: Abdel-Badeeh M. Salem (Head of BioMedical Informatics and Knowledge Engineering Research Lab, Faculty of Computer and Information sciences, Ain Shams University, Abbasia, Cairo-Egypt); Giancarlo Mauri (Head of Dept. Of Informatics, Communication, University of Milan Bicocca); Domenico Pisanelli (CNR, Rome, Italy), F. Sicurello (President of IITM)

16.00 **POST CONFERENCE TUTORIAL 2**: VIRTUAL AND AUGMENTED REALITY APPLICATIONS IN MEDICINE AND SURGERY

Topics

- Building of the virtual environments from medical images of the patient
- Visualization and navigation systems
- Virtual Reality in pre-operative surgical planning
- Virtual surgical simulators (with and without force feedback)
- Augmented Reality for intra-operative surgical procedures
- Visualization and interaction with patient's data
- Serious games in medicine

Teacher: Lucio Tommaso De Paolis (Dept. of Engineering for Innovation, University of Salento, Italy)

20.00 **BUFFET NETWORKING DINNER (AT TRADITIONAL PLACE OF CAPUA PALACE)**

Wednesday, December 19th

9.30 **SOCIAL EVENT:** VISIT OF **INQUISITOR'S PALACE AND MARITIME MUSEUM**

HONORARY COMMITTEE

- *Mohamed Abdalla (Senior Advisor of ITU, Egypt)*
- *A. Elio Cardinale (UnderSecretary of Health, Government of Italy)*
- *Joseph Caruana (Chief Executive Officer of Mater Dei Hospital, Malta)*
- *Joe Cassar (Minister of Health of Malta Government)*
- *Joseph Church (Secretary of Presidency of Republic of Malta)*
- *Pierpaolo Saporito (President of OCCAM, United Nations)*
- *Francesco Sicurello (Chairman of EMMIT and President of IITM)*

talshanableh @gmail.com

SCIENTIFIC COMMITTEE

Chairman: Francesco Sicurello (President of IITM, University of Milan-Bicocca, Italy)
Co-chair: Christian Axiak (RIS PACS Manager, Mater Dei Hospital, Malta)

Mohamed Abd-allah (Egypt)
Salem Abdel-Badeeh M. *(Egypt)*
Tayseer Alshanableh (North Cyprus-Turkey)
Essam Ayad *(Egypt)*
Manana Beruchashvili (Georgia)
Paul Bezzina (Malta)
Marcello Bracale (Italy)
Zoran Dogas (Croatia)
Zouheir El Imad (Lebanon)
Aziz El Matri (Tunisia)
Johnny Heubri (Lebanon)
Vesna Ilakovac (Croatia)
Novak Jaucokic (Montenegro)
Janis Keklikoglou (Greece)
Hoda Khachan Abi Khalil (Lebanon)
Alda Kika (Albania)
Anamarija Margan (Croatia)
Polina Mihova (Bulgaria)
Ioana Moisil (Romania)
Josè Luis Monteagudo Pena (Spain)
Zahra'a F. Nouredine(Lebanon)
Riccardo Orsini (Italy)
George Pangalos (Greece)
Immacolata Pannone (Italy)
Simion Pruna (Romania)
Assa Reichert (Israel)
Ghassan Shahrour (Syria)
Yuval Shahar (Israel)
Nikolay Tverdokhlebov (Russia)
Anton Vladzymyrsky (Ukraine)
Francis Zarb (Malta)

ORGANIZING COMMITTEE

Chair: Christian Axiak (Mater Dei Hospital, Malta)
Michael Gonzi (IM&T, Health Department, Malta); Paul Bezzina (University of Malta, Malta); Mario Casha (Cultural Coordinator, Malta); Alessandro Donzelli (IITM, University Techological Center Desio, Italy); Francis Zarb (University of Malta, Malta)

The Bighi Hospital (Old Military Hospital) is located in Malta island near Kalkara

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