





The European Federation for Medical Informatics (EFMI) is a European not for profit organisation dealing with medical informatics. The term medical informatics is used to include the whole spectrum of Healthcare Informatics and all disciplines concerned with Healthcare and Informatics.

It has been established in Copenhagen in September 1976. All European countries are entitled to be represented in EFMI by a suitable Medical Informatics Society. Currently it has 31 members. Scientific work is organised in the form of working groups, two of which are engaged in the organisation of the STC2014:

- EFMI WG HIIC Health Informatics for Interregional Cooperation
- EFMI WG PCI Primary Care Informatics

EFMI organises two conferences every year: MIE (Medical Informatics Europe) and STC (Special Topic Conference).



John von Neumann
Computer Society
Biomedical Section



The Biomedical Section is one of the oldest forum of the John von Neumann Computer Society (NJSZT). The society is a professional organization acting on the field of information technology and it's applications. NJSZT is committed to the

development of the information society and is dedicated to represent the profession of information technology nationally and internationally.

The Biomedical section deals with the scientific field of medical informatics, including bioinformatics, health informatics and information aspects of biomedical engineering. The section is dedicated to present the newest results of the field to the professional community, for that reason regular workshops are held, several times a year.

Apart from research and development, the workshops deal with the practical application of medical informatics, i.e the needs of the medical community and the solutions proposed by IT companies and the eHealth projects of the health government. Dedicated workshops dealt with the following issues:

- establishment and operation of disease registries,
- telemedicine,
- secondary use of health information,
- support of the home care of chronically ill patients,
- and status of education of medical informatics in a broad sense.

Last but not least the Section is committed to strengthen its international relationships, for that reason several workshops have been held within the scope of the Italian-Hungarian Cultural Year (2013).



Sunday, 27 April 2014

Mozaik Room

10:00-13:00

Amnon Shabo

Major challenges in cross-border & translational health information interoperability
Tutorial

Hall 1

16.00 -

Conference Registration

17:30-18:20

Opening Ceremony

18:20-19:00

John Bryden Memorial lecture

(Session Chairs: Lăcrămioara Stoicu-Tivadar, Romania,
Simon de Lusignan, UK)

Prof. Frank Sullivan

Improving health with the community health index and developments in record linkage

19.00-

Get together party

Monday, 28 April 2014

Hall 1

- 09:00-11:00 Scientific Session 1: Health data sharing and integration opportunities and challenges of working across EU borders**
(Session Chairs: Patrick Weber, EFMI; György Surján, Hungary)
- 09:00-09:40 **Keynote lecture**
Fredrik Linden: Use of IT in cross-border care
- 09:40-10:00 **Using the EC Decision on Case Definitions for Communicable Diseases as a Terminology Source - Lessons Learned**
Laszlo Balkanyi, Gergely Heja and Attila Nagy
- 10:00-10:20 **Arranging ISO 13606 Archetypes into a Knowledge Base Using UML Connectors**
Georgy Kopanitsa
- 10:20-10:40 **Ontologies to capture Adverse Events Following Immunisation (AEFI) from real world health data**
Harshana Liyanage and Simon de Lusignan
- 10:40-11:00 **Comparison of Clinical Practice Guidelines from a Knowledge Modelling Perspective: a Case Study with the Management of Hypertension**
Alexandre Galopin, Jacques Bouaud, Suzanne Pereira and Brigitte Séroussi
- 11:00-11:20 **National Health Insurance Fund Administration and Hospital Information Systems on Enterprise Service Bus basis using open standards**
Zoltán Szombathelyi, Gyula Király, Hospitality
- 11:20-11:40 Coffee break
- 11:40-13:00 Scientific Session 2: Sources of data, including big data, for monitoring and measuring health and disease**
(Session Chairs: Brigitte Seroussi, EFMI; László Balkányi, Hungary)
- 11:40-12:00 **Practical Implementation of a Bridge between Legacy EHR System and a Clinical Research Environment**

- 12:00-12:20 **Automated Detection of Ambiguity in BI-RADS Assessment Categories in Mammography Reports**
Selen Bozkurt and Daniel Rubin
- 12:20-12:40 **Data and Knowledge in Medical Distributed Applications**
Alexandru Serban, Mihaela Crişan-Vida and Lăcrămioara Stoicu-Tivadar
- 12:40-13:00 **Computer Assisted Treatment Prediction of Low Back Pain Pathologies**
Norbert Gál, Vasile Stoicu-Tivadar, Diana Andrei, Dan Ion Nemeş and Emanuela Nădăşan
- 13:00-13:20 **SAP HANA Big Data in healthcare**
Zsigmond Varga
- 13:20-14:30 Lunch
- 14:30-16:50 Scientific Session 3: Sources of data, including big data, for monitoring and measuring health and disease**
(Session Chairs: Etienne De Clercq, EFMI; Gergely Héja, Hungary)
- 14:30-15:10 **Keynote lecture**
Andrew Amato-Gauci IT needs of surveillance
- 15:10-15:30 **Preclinical tests of an Android Based Dietary Logging Application**
István Kósa, István Vassányi, Balázs Pintér, Márta Nemes, Krisztina Kármán and László Kohut
- 15:30-15:50 **The Israel National Hospital Discharge Register: an Essential Component of Data Driven Healthcare**
Ziona Haklai, Dmitry Mostovoy, Ethel-Sherry Gordon, Jean Chaim Karger and Assa Reichert
- 15:50-16:10 **Cognitive computing - new promises in medical informatics**
Norbert Sepp, IBM Hungary
- 16:10-16:30 Coffee Break
- 16:30-16:50 **Supporting Diagnosis and Treatment in Medical Care Based on Big Data Processing**
Oana-Sorina Lupş, Mihaela Crişan-Vida, Lăcrămioara Stoicu-Tivadar and Elena Bernad
- 16:50-17:10 **From Generic Pathways to ICT-supported Horizontally Integrated Care: the SmartCare Approach and Convergence with Future Internet Assembly**
Vladimir UROŠEVIĆ and Marko MITIĆ

17:10-17:30 **Combined Model for Diabetes Lifestyle Support**
Péter Gyuk, István Szabó, István Kósa, István Vassányi and Levente Kovács

19:00 - **Gala Dinner**

Hall 2

Workshops

09:40-11:00 **Life System Analysis to Create and Manage Clinical Indicators in Real Time**
Frederic Ehrler, David-Zacharie Issom, Christian Lovis

11:30-13:00 **Introducing the EFMI Work Group on Translational Health Informatics**
Amnon Shabo

14:30-16:30 **Health Information Management (HIM) - Achievements, Chances, and Perspectives for Europe**
Rolf Engelbrecht, EFMI HIME

Tuesday, 29 April 2014

Hall 1

9:00-11:00 **Scientific Session 4 - Using routine data for epidemiological study and public health**
(Session Chairs: Assa Reichert, EFMI; István Kósa, Hungary)

9:00-09:20 **Belgian Primary Care EPR: Assessment of Nationwide Routine Data Extraction**
Etienne De Clercq, Viviane van Casteren, Nathalie Bossuyt, Geert Goderis and Sarah Moreels

09:20-09:40 **Improving Hospital Decision Making with Interpretable Associations over DataCubes**
Carlos Molina, Belén Prados-Suarez, Miguel Prados de Reyes and Carmen Peña Yañez

09:40-10:00 **The Effect of the Waiting Times on the Patient Pathways for Patients with Suspected Coronary Artery Disease**
Ferenc Király, István Kósa, István Vassányi

10:00-10:20 **Routine data for Disease surveillance in the undeveloped region of the OR Tambo District of the Eastern Cape Province, South Africa**
Chrispin Kabuya, Graham Wright, Anthony Odama and Don O'Mahony

10:20-10:40 **Usability of HL7 and SNOMED CT Standards in Java Persistence API Environment**
Gábor Antal, Ádám Zoltán Végh and Vilmos Bilicki

10:40-11:00 **New Study Program: Interdisciplinary Postgraduate Specialist Study in Medical Informatics**
Mira Hercigonja-Szekeres, Diana Šimić, Jadranka Božikov and Petra Vondra

11:00-11:20 Coffee Break

11:20-12:00 **Poster Session**
(Session Chairs: Alexander Horbst, EFMI; György Surján, Hungary)

11:20-11:30 **Evaluating Study for a Multiuser Oriented Medical Data Visualization Method**
Georgy Kopanitsa

11:30-11:40 **Mobile Learning Readiness of Nursing Students**
Neşe Zayâm and Deniz Özel

11:40-11:50 **Application of an Electronic Health Record System for Teaching Medical Students in Russia**
Sergey Karas, Eduard Merker, Irina Korneva, Alexey Ponomarev and Georgy Kopanitsa

11:50-12:00 **Proof of concept using tablet computers to survey TB**
Anthony Odama, Graham Wright, Chrispin Kabuya and Don O'Mahony

Hall 2

12:00-13:00 **Round table organized by WG EFMI - HIIC and partners - Cracking the barriers - project for future cross border communication in healthcare**

Hall 1

13:00-13:30 **Closing Ceremony**

13:30-14:00 Lunch