

IMIT 2014

INTERNATIONAL MEDICAL INFORMATICS and TELEMEDICINE
CONFERENCE

E-HEALTH AND TELEMEDICINE IN THE GLOBAL SOCIETY

April 13-15, 2014

Venue: Hôpital Universitaire de Genève HUG - Nouvel auditoire de pédiatrie
Avenue de la Roseraie 45 – CH-1211 Genève 14

Organized by: International Institute of Telemedicine - IITM

in cooperation with: Western Switzerland University of Applied Sciences
Haute École d'Ingénierie et de Gestion du Canton Vaud



PROGRAM



Sunday, April 13

- 14.00 Pre-conference Tutorial registration
- 14.30 Tutorial on: Fundamentals and methods of Medical Informatics and Telemedicine
Francesco Sicurello (President of IITM, International Institute of Tele-Medicine) et al.



Monday, April 14

- 08.45 **IMIT REGISTRATION**
- 09.30 **WELCOME COFFEE**
- 10.00 **OPENING CEREMONY AND SCIENTIFIC SPEECHES**
 - **Enrico M. Staderini**
Haute École d'Ingénierie et de Gestion du Canton Vaud,
Western Switzerland University of Applied Sciences, IMIT Organizing Chair
 - **Francesco Sicurello**
President of IITM, Chairman of IMIT Conference
 - **Antoine Geissbuhler**
Director of Division of eHealth & telemedicine, Geneva University Hospitals, Switzerland
 - **Najeeb Al-Shorbaji**
Director of Knowledge, Ethics and Research Department, WHO, Geneva

- **Reinhard Scholl**
International Telecommunication Union, ITU, Geneva
- **Marco Manca**
Directorate Unit, CERN, Geneva
- **P.S. Prasad Dandamudi**
Program Director, Life Science Course, Jawaharlal Nehru Technological University JNTU, Kakinada, Andhra Pradesh, India

11.45 SPECIAL SESSION ON: ICT IN PAEDIATRICS

- **Telemedicine in paediatric wound care:** Bianciardi Valassina Maria Francesca, Murgia Fabrizio, Romano Paola, Corona Benedetta, Bella Sergio (*Bambino Gesù Pediatric Hospital- IRCCS, Rome, Vatican City*)
- **Third level remote consulting to support FAST echography in pediatric emergency assistance by the use of COTS technology (Commercial Off The Shelf):** Zennaro F., Neri E., Guastalla V., Norbedo S., Nappi F., Barbi E. (*Institute for Maternal and Child Health IRCCS Burlo Garofolo, Trieste, Italy,*) Francesco Cabras, Francesca Frexia, Riccardo Triunfo, Gianluigi Zanetti (*CRS4 research center, Cagliari, Italy*)
- **Digital teleradiology can improve quality of health care and reduce cost: a paediatric experience from a medium-sized hospital in Angola:** Zennaro F., Guastalla V., Paoletti P.P., Not T., Starc M., Casalino A. Ronfani L., Lazzerini M. (*Institute for Maternal and Child Health IRCCS Burlo Garofolo, Trieste, Italy*), Lonardi M., Gobbo D., Giusto C., Oliveira Gomes J.A. (*Hospital Divina Providencia, Luanda, Angola*)
- **Operating Room Informatics: managing and utilizing patients surgical data in medical education:** Ahmed I. Albarak (*Medical Informatics and E-learning Unit, College of Medicine, King Saud University, Riyadh, Saudi Arabia*)

12.45 LUNCH BREAK

13.45 TOWARDS THE EUROPEAN SCIENTIFIC PROGRAM HORIZON 2020: PROJECTS AND PROPOSAL ON ICT AND HEALTH (E-HEALTH)

- **The new call of Horizon 2020 of ICT and Health (e-Health):** Judita Kinkorová (*Health NCP, Technologické Centrum, Prague, Czech Republic*)
- **e-Health and patient's empowerment:** Luca Buccoliero (*Bocconi University, Milan, Italy*)
- **Standardization in e-Health:** Paul Gérôme (*ISO/TC12 Liaison to ITU-T SG 17, Geneva*)
- **An European Code of Practice for Telehealth Services Outcomes of the TeleSCOPE Project:** Luigi Biocca, Davide Di Pasquale, Francesco Maiuri, Marco Padula, Nicolò Paraciani, Paolo L. Scala (*Construction Technologies Institute, Units of Rome & Milan, National Research Council*), Claudio Lafortuna, Sarah Tabozzi (*Institute of Molecular Bioimaging and Physiology National Research Council, Milan, Italy*)
- **T4MOD Project – A success case of European cooperation in Tele-Medicine:** Fabio Massimo Ciminiello, Aldo Vincenzi (*Telespazio, Rome, Italy*)
- **New ICT tools to support well aging:** Stefania Pazzi, Stefano Puricelli (*Consorzio di Bioingegneria e Informatica Medica-CBIM, Pavia, Italy*), Daniela Tost Pardel (*Polytechnic University of Catalonia –UPC, Barcelona, Spain*), Elena Cavallini (*Department of Psychology, University of Pavia*), Cristina Tassorelli (*C. Mondino National Institute of Neurology Foundation, Pavia, Italy*)

15.30 COFFEE BREAK

15.45 MOBILE HEALTH, SOCIAL AND SMART MEDIA

- **Social media and apps for healthcare:** Eugenio Santoro (*IRCCS Mario Negri, Milan, Italy*)
- **Application of mobile photography with smartphone cameras for monitoring of morphometric parameters in the course of orthodontic correction with dental brackets:** Godlevsky L.S., Bidnyuk E.A., Kresyun N.V., Bayazitov N.R., Lyashenko A.V., Balykov V.V. (*Department of biophysics, informatics and medical devices, Odessa National Medical University Odessa, Ukraine*)
- **Smart health and smart city:** Renzo Bassetto (*AP Systems, Magenta, Milan, Italy*)
- **Applications for mobile data collections in veterinary fields:** Adriano Di Pasquale, Andrea de Ruvo, Daniele Di Flaviano, Cesare Di Francesco (*Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" Italy*)
- **Toys, mobile and ICT devices for empowering the awareness of the user/patient towards his wellness;** M.L. Ganadu, M. Bertolotti, S. Succhi (*University of Sassari, IT*), E. Zangrando (*University of Trieste, IT*)

16.45 TELEMEDICINE AND TELE CARE

- **Methods and Trends in Telepathology:** Yukako Yagi (*Massachusetts General Hospital, Harvard University, Boston USA*) (by Teleconference)
- **A complex system for the automatic screening of diabetic retinopathy:** Balint Antal, Jozsef Szakacs, Attila Szalkay, Andras Hajdu (*Faculty of Informatics, University of Debrecen, Hungary*)
- **Telemedicine and Remote Patient Monitoring model study in Hungary, co-operation among ICT industry, local SMEs and healthcare institutions:** Pál Miletics (*Hungarian Telemedicine an E-health Association*)
- **Efficient Development of Telemedicine Applications with Code Generation:** Gábor Antal, Ádám Zoltán Végh, Vilmos Bilicki (*Department of Software Engineering, University of Szeged, Hungary*)
- **San Giovanni Addolorata Hospital, INMP and Global Health Telemedicine onlus: in a globalised world our dream is to globalise healthcare:** Giorgio Scaffidi, Gianpiero Guerrieri, Paola Zabini (*GHT Onlus Rome*), Michelangelo Bartolo (*GHT Onlus and S.Giovanni Addolorata Hospital Rome, Italy*)
- **Use of telemedicine in Intensive Care Unit wards: Case study from Emergency Hospital Moinesti:** Adrian Cotîrle, Eugen Tincu, Andrei Zală, Paul Andreianu (*Research Department Emergency Hospital Moinești, Bacău County, Romania*)
- **Telemedicine from the point of view of students from Romania and Italy;** Mihaela Badea, Carmen Buzea, Liliana Rogozea (*Transilvania Univ of Brasov, Romania*), Arianna Sonia Scollo, Patrizia Restani (*University of Milan, Italy*), Stefano Girotti (*University of Bologna, Italy*)
- **Telemonitoring tools for toxic compounds detection;** Mihaela Badea, Carmen Buzea, Marius Moga (*Transilvania Univ of Brasov, Romania*), Arianna Sonia Scollo, Patrizia Restani (*University of Milan, Italy*)

20.00 SOCIAL DINNER



Tuesday, April 15

09.00 HEALTH RECORDS, DATA BASES, INFORMATION SYSTEMS AND MEDICAL EDUCATION

- **Electronic Health Record in Dentistry:** Jana Zvárová, Karel Zvára (*Institute of Hygiene and Epidemiology 1st Faculty of Medicine of Charles University, Prague*), Tatjana Dostálová, Karel Chleborád (*Department of Paediatric Stomatology, 2nd Faculty of Medicine of Charles University, Prague, Czech Republic*)
- **eManagement for Multidrug-Resistant Tuberculosis Care: From Conception to Practice:** A.V. Vladzmyrskyy¹, V.V.Mozgovoy², S.S.Bondarenko³ (¹Donetsk National Medical University of M.Gorky, ²Donetsk Regional Tuberculosis Hospital, ³Rinat Akhmetov Foundation "Development of Ukraine", Donetsk, Ukraine)
- **Use of ZFS technology for Virtual Storage in a transactional Health DB;** A.Donzelli¹, M. Mancini¹ e C. Vigolo¹, P. Vavassori^{1,2} (¹Istituti Clinici Zucchi Monza - Gruppo San Donato, ²Istituto Clinico Villa Aprica Como - Gruppo San Donato)
- **Role of IT (information technology) in women health education:** Amina Ather (*TSM, Medizin Park Ruhr, Dusseldorf, Germany, European Medical Association Global project, Brussels, Belgium*)
- **How does the new Declaration of Helsinki approach to data privacy:** Zoltán Alexin (*University of Szeged, Hungary*)

11.00 COFFEE BREAK

11.15 TELEMEDICINE AND TELEPATHOLOGY

- **Telemedicine in musculo skeletal disorders;** Wojciech Glinkowski (*Baby Jesus Clinical Hospital, Medical University of Warsaw and Polish Telemedicine Society*)
- **Clinical telemedicine in Ukraine: methodology, networks, efficiency:** A.Vladzmyrskyy, B. Lytvynenko, S. Bondarenko, R. Pavlovich (*Association for Ukrainian Telemedicine and eHealth Development, Donetsk National Medical University named after M. Gorky, Rinat Akhmetov Foundation "Development of Ukraine", Donetsk, Ukraine*)
- **Digital Pathology in Egypt: Applications of WSI in Cairo University for E-education & Telepathology:** Essam Ayad (*Digital Pathology Unit, Cairo University*)
- **Telepathology: National network and Regional experiences in Italy:** Marco Pagani, Andrea Stoppini (*Consorzio di Bioingegneria e Informatica Medica – CBIM, Pavia*), Antonino Carbone (*IRCCS Centro di Riferimento Oncologico, Aviano -PN*), Placido Bramanti (*IRCCS Centro Neurolesi "Bonino Pulejo", Messina, Italy*)

- **Google Body Project 10^100: The Google of Human Body (i^5 Body 10^100 Project);** Hugo Góngora Jara (Hospital Enrique Vera Barros and Faculty of Medicine - Institute of Health Sciences HA Barceló Foundation, La Rioja, Argentine)

12.45 LUNCH BREAK

13.45 INTELLIGENT SUPPORT SYSTEMS, BIOENGINEERING AND BIOINFORMATICS

- **Knowledge Engineering in BioMedicine and Health Care:** Salem Abdel-Badeeh M. (Ain Shams University, Cairo, Egypt)
- **Protocol based intervention plan analyser:** Miklos Kozlovsky, Dániel Mészáros, Gábor Bognár, Balázs Jókay A, Nikolett Pálos, Levente Kovacs (Obuda University, Budapest, Hungary)
- **The Brain Supporters Project: a system to support diagnosis of brain lesions of suspected infectious origin, in transplanted patients, starting from a database and a set of radiologic image analysis tools:** Zennaro F., Grosso D., Zanon D., Pizzol A., Guastalla V., Maximova, N. (Institute for Maternal and Child Health IRCCS Burlo Garofolo, Trieste, Italy), Minuzzo T. (CNR-ISMAR, Venice, Italy)
- **Remote monitoring of human motor control and rehabilitation robotics:** Enrico M. Staderini (Haute École d'Ingénierie et de Gestion du Canton Vaud, Western Switzerland University of Applied Sciences)
- **On the use of numerical distances for case-control classification:** Italo Zoppis¹, Dario Di Silvestre², Pierluigi Mauri² and Giancarlo Mauri¹ (¹Department of Computer Science, University of Milano Bicocca; ²Institute for Biomedical Technologies – ITB/CNR – Milan, Italy)
- **BioInfoTechnomics – The WABIT Scope: From BIT to HIT (Health InfoTechnomics):** Giuseppe Tritto (WABT-WWO, Paris, France, WEIL, Budapest Hungary, HealthLife Creative Enterprise, London, UK)
- **BioBanks and Health Tourism Regulation in Human Reproduction;** Alice Karoubi Nordon (Ascott Associes, France)

15.45 MEETING OF IMIT STUDENTS AND YOUNG RESEARCHERS

16.15 CONCLUSIONS, REMARKS AND TOWARDS IMIT2015 (ARGENTINA OR INDIA)

Scientific Committee

Chairman: **Francesco Sicurello** (President of IITM, University of Milano-Bicocca, Italy)

Cochairs: **Salem Abdel-Badeeh** (Ain Shams University, Egypt); **Yukako Yagi** (Massachusetts. General Hospital, Boston)

<i>Shimon Abboud (IL)</i>	<i>Jose Galvez (CH)</i>	<i>Maite Mijares (EC)</i>	<i>Tony Solomonides (UK)</i>
<i>Mohamed Abdalla (ET)</i>	<i>Fioretta Gatti (CO)</i>	<i>Valérie Monfort (F)</i>	<i>Enrico M. Staderini (CH)</i>
<i>Najeeb Al Shorbaji (CH)</i>	<i>Piermario Gerthoux(I)</i>	<i>Josè Luis Monteagudo Pena (E)</i>	<i>Mohammed Thabit Sultan (OM)</i>
<i>Christian Axiak (M)</i>	<i>Hassan Ghazal (MA)</i>	<i>Efstratia Mourtou (GR)</i>	<i>Valery Stolyar (RUS)</i>
<i>Essam Ayad (ET)</i>	<i>Wojciech Glinkowski (PL)</i>	<i>Noel Nader (F)</i>	<i>Tidiani Togola (RMM)</i>
<i>Sergio Bella (I)</i>	<i>Hugo Góngora Jara (RA)</i>	<i>Elena Nechita (RO)</i>	<i>Peter Tonellato (USA)</i>
<i>Ahmed Bahnassy (KSA)</i>	<i>Johnny Heubri (RL)</i>	<i>Jiří Ochozka (CZ)</i>	<i>Oswaldo Trelles (E)</i>
<i>Jana Bobokova (EC)</i>	<i>Kiyomu Ishikawa (J)</i>	<i>George Pangalos (GR)</i>	<i>Giuseppe Tritto (F)</i>
<i>Josephine Borrillo (USA)</i>	<i>Klaus Kaiser (D)</i>	<i>Immacolata Pannone (I)</i>	<i>Nikolay Tverdokhlebov (RUS)</i>
<i>Luca Buccoliero (I)</i>	<i>Alda Kika (AL)</i>	<i>Francisco José Penna (BR)</i>	<i>Lorant Vajda (H)</i>
<i>Branko Celler (AUS)</i>	<i>Judita Kinkorová (CZ)</i>	<i>Simion Pruna (RO)</i>	<i>Alejandro Vargas (BOL)</i>
<i>Angela Colantonio (CDN)</i>	<i>Roumen Kountchev (BG)</i>	<i>Mohamed Wasim Raad (SA)</i>	<i>Jorge A. Vélez B. (CO)</i>
<i>Paolo Cristiani (IT)</i>	<i>Luis Kun (USA)</i>	<i>A. K. Sangal (IND)</i>	<i>Anton Vladzimirsky (UA)</i>
<i>Mohammed El Azami Idrissi (MA)</i>	<i>Cleveland Lozano (PE)</i>	<i>Asma H Sbeih (PS)</i>	<i>Peter Waegemann (USA)</i>
<i>Ahmed Elbousify (Ly)</i>	<i>Anamarija Margan (HR)</i>	<i>Andrey Selkov (RUS)</i>	<i>Steve Wheeler (UK)</i>
<i>Aziz El Matri (TN)</i>	<i>Sana Daya Marini (Q)</i>	<i>Ghassan Shahrour (SYR)</i>	<i>Floriana Zennaro (I)</i>
<i>Aldo F. Dragoni (I)</i>	<i>Giancarlo Mauri (IT)</i>	<i>Pal Simon (H)</i>	<i>Maria Zolfo (B)</i>
	<i>Pál Miletics (H)</i>	<i>Boris Schmit (D)</i>	<i>Tatjana Zrimec (SLO)</i>

Organizing Committee and web information

Chair: **Enrico Maria Staderini** (Western Switzerland University of Applied Sciences) enrico.staderini@heig-vd.ch

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