**14th MULTI CONFERENCE ON COMPUTER SCIENCE AND INFORMATION SYSTEMS**  
21 – 23 July 2020

**12th International Conference on e-Health**

**CONFERENCE PROGRAM**

**IMPORTANT NOTICE:** listed times are in GMT+1, you can check your timezone at [https://greenwichmeantime.com/time-zone/gmt-plus-1/](https://greenwichmeantime.com/time-zone/gmt-plus-1/) (you can use the provided URL to insert your location and see your time in relation to GMT+1).

**Tuesday 21st July 2020**

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<td>09:15-10:15</td>
<td>Session KL1 – Keynote Presentation</td>
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<td>TOWARDS INTELLIGENT PERSONALISED CANCER TREATMENT VIA ARTIFICIAL INTELLIGENCE</td>
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<td>Professor Gordon McVie, Chair of the European Alliance for Personalised Medicine, UK</td>
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<td>VERIFICATION OF AUTOMATA MODELS FOR CLINICAL DECISION SUPPORT SYSTEMS (F051)</td>
<td>Grigorii Shovkoplias, Ivan Smirnov, Mark Tkachenko, Natalia Gusarova, Aleksandra Vatian, Anatoly Shalyto and Rajdeep Niyogi</td>
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<td>PIPELINE FOR CONTROL OF THE DYNAMICS OF LOCALIZED BRAIN PATHOLOGIES IN MAGNETIC RESONANCE IMAGES (F067)</td>
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<td>ICT SUPPORTED OCCUPATIONAL STRESS MANAGEMENT: THE VIEWS OF HR MANAGERS IN SRI LANKAN SOFTWARE COMPANIES (F073)</td>
<td>Manoja Weerasekara, Åsa Smedberg and Hélène Sandmark</td>
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<td>APPLICATION OF AUTOMATON MODEL TO SUPPORT REHABILITATION OF MOTOR SKILLS OF PATIENTS (F052)</td>
<td>Grigorii Shovkoplias, Eduard Glekler, Vladislav Povyshev, Jaafar Hammoud, Natalia Gusarova, Aleksandra Vatian and Anatoly Shalyto</td>
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<td>Session FSP 21.2 eHealth to improve Quality and Patient Safety // Mobile Applications</td>
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<td>ANALYSIS OF DATA QUALITY ON ADVERSE DRUG REACTIONS AND OF METHODS FOR ITS IMPROVEMENT (F080)</td>
<td>Mark Tkachenko, Natalia Dobrenko, Daria Butorina, Elvira Balatova, Aleksandra Vatian and Anton Araçazhvili</td>
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<td>ENGAGEMENT AND USAGE PATTERNS OF A MOBILE APPLICATION TO MONITOR DISEASE AND TREATMENT ADHERENCE IN PATIENTS WITH ASTHMA (F069)</td>
<td>Rute Almeida, Cristina Jácome, Pedro Vieira-Marques, Ana Pereira, Ana Sá-Sousa, Rita Amaral, José Valente and João Almeida Fonseca</td>
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<td>HOW CAN QUALITY REQUIREMENTS FOR MEDICAL SOFTWARE BE SYSTEMATICALLY FULFILLED BETTER? (S018)</td>
<td>Karin Messer-Misak, Jeroen de Bruin and Sten Hanke</td>
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<td>ACQUERING BREATHING MOVEMENT AND HEART RATE FROM INERTIAL MEASUREMENT UNITS (P090)</td>
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16:00-16:15 Break
Wednesday 22nd July 2020

08:45-10:15 Session FP 22.1
eHealth Decision Support Systems // Business Process Management Systems
Chair: Mário Macedo

HOW ACCURATE DO YOU WANT IT? DEFINING MINIMUM REQUIRED ACCURACY FOR MEDICAL ARTIFICIAL INTELLIGENCE (F037)
Federico Sternini, Alice Ravizza and Federico Cabitza

ALL YOU NEED IS HIGHER ACCURACY? ON THE QUEST FOR MINIMUM ACCEPTABLE ACCURACY FOR MEDICAL ARTIFICIAL INTELLIGENCE (F039)
Federico Cabitza, Andrea Compagner, Francesco Del Zotti, Alice Ravizza and Federico Sternini

PRIMARY USE CASE IMPLEMENTATION OF INTERNATIONAL PATIENT SUMMARY ON OPENEHR PLATFORM (F083)
Evgeniy Krastev, Petko Kovatchev, Dimitar Tcharaktchiev and Simeon Abanos

10:15-10:30 Break

10:30-12:30 Session FP 22.2
Health Informatics and Education // Computers and Primary Care
Chair: Evgeniy Krastev

WHAT BRINGS WOMEN INTO EHEALTH? WOMEN’S CAREER TRAJECTORIES IN DIGITAL TRANSFORMATIONS IN HEALTHCARE (F060)
Åsa Cajander, Hilde G. Corneliussen, Gunilla Myreteg and Kari Dyb

AN EFFICIENT DATA IMPUTATION TECHNIQUE FOR HUMAN ACTIVITY RECOGNITION (F084)
Ivan Miguel Pires, Faisal Hussain, Nuno M. Garcia and Eftim Zdravevski

ELECTRONIC REGISTRY SYSTEM FOR DIABETIC PATIENTS UNDERGOING HYPERBARIC OXYGEN THERAPY: DETERMINATION OF COMMON DATA ELEMENTS (F049)
Shahram Oliaei, Nahid Mehrabbi, Tayebeh Noori, Solmaz Saeidi and Esmaeil Mehraeen

IMPLEMENTATION OF ELECTRONIC PRESCRIPTIONS: THE PHYSICIANS’ VIEW (F065)
Kristina Drusany Starič, Myra Tilney, Ioanna Chouvarda, Petra Bukovec and Hrvoje Belani

12:30 – 13:40 Break

13:40-16:00 Session FSP 22.3
eHealth Collaborative Strategies and Techniques // Change Management
Chair: Mário Macedo

DEVELOPING A REGIONAL SOLUTION TO DIGITAL TRANSFORMATION OF HEALTH CARE SERVICES: COLLABORATION, LEADERSHIP, AND TECHNOLOGICAL EXPERTISE (F087)
Hilde G. Corneliussen

COMPUTER COMPETENCY AS AN INDICATOR OF HEALTHCARE INSTITUTION READINESS FOR HEALTH INFORMATION SYSTEMS: A STUDY IN BENGHAZI (F034)
Salah Awami

NAMED ENTITY RECOGNITION AND INFORMATION EXTRACTION FOR ARABIC MEDICAL TEXT (F070)
Jaafar Hammoud, Natalia Dobrenko and Natalia Gusarova

DEEP LEARNING-BASED MOTION ACTIVITY RECOGNITION USING SMARTPHONE SENSORS (F038)
Saedeh Abbaspour, Faranak Fotouhi, Hossein Fotouhi, Maryam Vahabi and Maria Linden

DIGITAL SUPPORT FOR A HUB-AND-SPOKE DISEASE NETWORK (S042)
Paolo Locatelli, Federica Cirilli, Eliana Panno, Salvatore Provenzano, Roberta Sanfilippo and Paolo G. Casali

16:00-16:15 Break

16:15-18:15 Tutorial
INTEGRATED ARCHITECTURE FRAMEWORK OF STANDARDS FOR HEALTHCARE SERVICES
By Prof. Mário Macedo, Universidade Atlântica, Portugal
Thursday 23rd July 2020

09:25-10:15 Session FSP 23.1
Personalized Medicine
Chair: Hilde G. Corneliussen

DESIGNING THE VALUE PROPOSITION OF SYSTEMIC EHEALTH INNOVATION ISEREDOM CASE STUDY (F061)
Angela Martin, Véronique Chirie and Emmanuelle Chifflet

ONCONET - A DIGITAL SERVICE FOR REMOTE MONITORING AND SUPPORT OF CANCER PATIENTS ON CHEMOTHERAPY (S086)
Irina G. Kargalskaja, Sergei A. Shinkarev, Boris V. Zingerman, Inna A. Fistul, Arkadiy V. Nozik and Sergei B. Arseniev

10:15-10:30 Break

10:30-12:05 Session FSP 23.2
Data Mining and Clinical Studies
Chair: Mário Macedo

EVALUATION OF COST-SAVING MACHINE LEARNING METHODS FOR PATIENT BLOOD MANAGEMENT (F043)
Davide Brinati, Andrea Seveso, Paolo Perazzo, Giuseppe Banfi and Federico Cabitza

APPLYING DEEP LEARNING METHODS TO THE AI EXPERT SYSTEM ON ALZHEIMER’S DISEASE FOR THE ELDERLY (F096)
Chun-Yang Chang, You-Hsun Wu, Wei-Pin Hong, Chien-Hsu Chen and Yang-Cheng Lin

AUDAPRET: TOWARDS A CLOUD ARCHITECTURE SUPPORTING MULTI-DEVICE RESEARCH STUDIES (S055)
Nadine von Frankenberg, Felix Matschilles and Stephan Jonas

APPLICATION OF DATA LAKE APPROACH FOR DATA ANALYTICS IN E-HEALTH ISSUES OF ARCHITECTURES AND ORGANIZATION (R091)
Bálint Molnár and Ádám Tarcsi

12:05 Best Paper Awards Ceremony and Closing Session
Prof. Mário Macedo