

ICIMTH 2022**1 - 3 July 2022****Divani Palace Acropolis, Athens, Greece - with virtual sessions**

DAY 1: Friday, 1 July 2022		
EEST	Erechtheion	Virtual and Aristotelis B
09:00 - 10:45	Session 1	Session 2
	<i>Chair: John Mantas</i>	<i>Chair: Parisis Gallos</i>
	The ERN-LUNG Population Registry: Aims, Software-implementation and First Results <i>Jannik Schaaf, Axel Zieschank, Jens Göbel, Thomas O F Wagner, Petra Pennekamp, Heymut Omeran, Holger Storf</i>	The Role of Artificial Intelligence and Machine Learning During the Covid-19 Pandemic: a Review <i>Mohammed Aldhoayan</i>
	Use of Electronic Health Information to Advance Health Research <i>Bander Alanazi, Fayed Alanezi, Ibtisam Alanazi</i>	Portable Health Clinic System for Maternal and Child Health Care in COVID-19 Pandemic Situation <i>Rafiqul Islam, Kimiyo Kikuchi, Yoko Sato, Rieko Izukura, Mariko Nishikitani, Nusrat Jahan, Meherun Nessa, Fumihiko Yokota, Ashir Ahmed, Naoki Nakashima</i>
	The Implementation of a Participatory Technology Development Process in a Clinical Setting <i>Nicole Hechtel, Alexander Dürsch, Peter Prowinsky, Jörn Krückeberg</i>	Impact of Class I Software as Medical Devices (SaMDs) on Public Health <i>Marlon Luca Machal</i>
	ICT tools for Registry Research: a Market Survey <i>Jürgen Stausberg, Sonja Harkener</i>	Usability Evaluation of a Modern Multilingual MeSH Browser <i>Philip Strecker, Martin Boeker, Simon Buechner, Raphael Scheible</i>
	Visualization System for the Impact of Context Open Data in Clinical Settings <i>Eduardo Alonso, Teresa Garcia-Navarro, Nekane Larburu</i>	Determining the Set of Items to Include in Breast Operative Reports, using Clustering Algorithms on Retrospective Data extracted from Clinical DataWarehouse <i>Adrien Boukobza, Maxime Wack, Antoine Neuraz, Daniela Geromin, Cécile Badoual, Anne-Sophie Bats, Anita BURGUN, Meriem Koual, Rosy Tsopra</i>
	Towards an evolutionary open pediatric intensive care data set in the ELISE project <i>Antje Wulff, Marcel Mast, Louisa Bode, Henning Rathert, Elise Study Group, Thomas Jack</i>	Evaluating the Impact of Digital Game on Learning Medical Terminology of Paramedical Students: Protocol for a Randomized Controlled Trial <i>Seyyede Fatemeh Mousavi baigi, Masoumeh Sarbaz, Parviz Marouzi, Khalil Kimiafar</i>
10:45 - 11:15	Coffee Break	

ICIMTH 2022**1 - 3 July 2022****Divani Palace Acropolis, Athens, Greece - with virtual sessions**

EEST	Erechtheion	Virtual and Aristotelis B
11:15 - 13:00	Workshop	Session 3
	Chair: Ivana Ognjanovic	Chair: Emmanouil Zoulas
	Development of Innovations and Entrepreneurship in Health Technology: How to Support and Attract? (11:15-12:00)	Blockchain Enabled Patient Centred Care for Inflammatory Bowel Disease: 4 Principles for Socio-technical and Clinical Alignment <i>Laura Hollingsworth, Ming Chao Wong, Kwang Chien Yee</i>
		Impact of Follow-up Imaging Recommendation Specificity on Adherence <i>Thusitha Mabotuwana, Christopher Hall, Vadi Hombal, Sandeep Dalal, Martin Gunn</i>
		Data Protection in Healthcare Research: Medical Students' Knowledge and Behavior <i>Marialida Farah, Samar Helou, Pascal Tufenkji, Elie El Helou</i>
		The Podcast "Digitization of Medicine" as a Form of Science Communication <i>Marianne Behrends, Joana M. Warnecke, Marie-Louise Witte, Carolin Klemmt, Ina Hoffmann</i>
	yEFMI Meeting Chairs: Ivana Ognjanovic and Felix Holl (12:15-13:00)	A systematic Review on Improving Health Literacy in Rural Africa using Mobile Serious Games <i>Ismaila Ouedraogo, Michel J Some, Roland Benedikter And Gayo Diallo</i>
Substantive Intertretation of Machine Learning Solutions by the Example of Determining the Activity of the Tuberculosis Process in Individuals with Minimal Tuberculosis Residual Changes <i>Nikolai Chernavin, Tatyana Tulkova, Pavel Chernavin, Igor Chernyaev, Yuri Chugaev</i>		
The Impact of the COVID-19 Pandemic on Physician Electronic Health Record Use and Burden at a Canadian Mental Health Hospital <i>Brian Lo, Lydia Sequeira, Anjchuca Karunaithas, Gillian Strudwick, Damian Jankowicz, Tania Tajirian</i>		
13:00 - 14:00	Lunch Break	

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EEST	Erechtheion	Virtual and Aristotelis B
14:00 - 15:45	Session 4	Session 5
	<i>Chair: John Mantas</i>	<i>Chair: Joseph Liaskos/Parisis Gallos</i>
	Information Provision and Quality. A Pilot Study on Shared Decision-making in Multiple Sclerosis <i>Hanna Kuusisto, Seija Apila, Kaija Saranto</i>	Caregivers Interactions with Clinical Autocomplete Tool: a Retrospective Study <i>Jamil Zaghir, Jean-Philippe Goldman, Mina Bjelogrljic, Christophe Gaudet-Blavignac, Christian Lovis</i>
	Towards the Adoption of Novel Visualizations in Public Health <i>Simon Minshall, Helen Monkman, Andre Kushniruk, Luca Calzoni</i>	The effects of Health behavior changing Program for Systolic Blood Pressure Reduction among Thai Buddhist Monks, Thailand. <i>Supattra Noo-in, Thidarat Somdee, Chitkamon Srichompoo, Santisith Khiewkhern</i>
	An Improved Infrastructure for Privacy-Preserving Analysis of Patient Data <i>Djura Smits, Bart van Beusekom, Frank Martin, Lourens Veen, Gijs Geleijnse, Arturo Moncada-Torres</i>	Analyzing SARS-CoV-2 Sequence Patterns by Semantic Trajectories <i>Wissame Laddada, Cecilia Zanni-Merk, Lina F. Soualmia</i>
	External Validation and Transportability of Models to Predict Acute Kidney Injury in the Intensive Care Unit <i>Iacopo Vagliano, Carmen Byrne Salsas, Tina WÜNN, Martijn Schut</i>	The Impact of COVID-19 on Mental Health Services in Scotland, UK <i>Elizabeth Cooke, Agnieszka Lemanska, Jennifer Livings, Spencer Thomas</i>
	The Utilization of Health Informatics Interventions in the COVID-19 Pandemic: A Scoping Review <i>Amanda Joseph, Helen Monkman, Andre Kushniruk, Elizabeth Borycki</i>	Health-related Content in Transformer-based Deep Neural Network Language Models: Exploring Cross-linguistic Syntactic Bias <i>Giuseppe Samo, Caterina Bonan, Fuzhen Si</i>
	Data Federation in Healthcare for Artificial Intelligence Solutions <i>Julio Castellanos, Gonzalo Raposo, Lucia Antunez</i>	Comparison of Non-AI and AI- Enabled m-Health Platforms for COVID-19 Self Screening in Indonesia <i>Sekar Putri Andriani, Padmanaba Adhyanacarira, Anis Fuad, Ariani Arista Putri Pertiwi</i>
15:45 - 16:15	An Evaluation Guide and Decision Support Tool for Journey Maps in Healthcare and Beyond <i>Amanda Joseph, Helen Monkman, Andre Kushniruk</i>	Implementation of A Geographic Information System-Based Smartphone Application for Health Vigilance in Older Adults by Village Health Volunteers (OSOMO) <i>Niruwan Turnbull, Adisorn Wongkongdech, Ranee Wongkongdech, Thanyarat Chaiyakarm, Worawit Jitsukka, Kemika Sombateyotha, Songkramchai Leethongdeesakul, Narongsakdi Kuboonya-Aragas, Chalard Chantarsombat, Krissanachai Kimchai, Nutchanon Kamonroek, David Hughes And Kukiati Tudpor</i>
	Coffee Break	

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EEST	Erechtheion	Virtual and Aristotelis B
16:15 - 17:45	Session 6	Session 7
	<i>Chair: John Mantas</i>	<i>Chair: Paris Gallos</i>
	Contextualizing Online Laboratory (lab) Results and Mapping the Patient Journey <i>Amanda Joseph, Helen Monkman, Leah MacDonald, Andre Kushniruk</i>	Data Literacy in Medical Education – An Expedition into the World of Medical Data <i>Ina Hoffmann, Marianne Behrends, , Highmeducation Consortium, Michael Marschollek</i>
	COVID-BIOCHIP: a Web Tool to Analyse COVID-19 Antigen Microarrays <i>Aurora Sucre, Isabel Amaya-Rodriguez, Hee-Sool Rho, Sonia Serna, Niels Reichardt, Alba Garin-Muga, Gorka Epelde</i>	Using Logistic Regression to Predict Long COVID Conditions in Chronic Patients <i>Adnan Kulenovic, Azra Kulenovic</i>
	Comparison of Data Classification Results for Leap Motion Recovery Gestures <i>Stelian Nicola, Oana Sorina Chirila, Lacramioara Stoicu-Tivadar</i>	Integrating Human Patterns of Qualitative Coding with Machine Learning: A Pilot Study Involving Technology-induced Error Incident Reports <i>Elizabeth Borycki, Amr Farghali, Andre Kushniruk</i>
	An OHDSI ATLAS Extension to Support Feasibility Requests in a Research Network <i>Ines Reinecke, Mirko Gruhl, Martin Pinnau, Fatma-Betuel Altun, Michael Folz, Michele Zoch, Franziska Bathelt, Martin Sedlmayr</i>	Explaining Contextualized Word Embeddings in Biomedical Research – A Qualitative Investigation <i>Marko Miletic, Murat Sariyar</i>
	Student Experience and its Relationship with Campus Mental Well-being <i>Lua Perimal-Lewis, Patricia A H Williams</i>	Evaluating Usability of Telehealth Sehhaty Application Used in Saudi Arabia During Covid-19 <i>Aisha Dawood, Khulud Alkadi</i>
	An Autoscaling Platform Supporting Graph Data Modelling Big Data Analytics <i>Athanasios Kiourtis, Panagiotis Karamolegkos, Andreas Karabetian, Konstantinos Voulgaris, Yannis Poulakis, Argyro Mavrogiorgou, Dimosthenis Kyriazis</i>	The Sortal Concept in the Context of Biomedical Record Linkage <i>Marko Miletic, Murat Sariyar</i>
EEST	Erechtheion	
18:00 - 18:15	Opening Session by Professor John Mantas, Conference Chair	
EEST	Erechtheion	
18:15 - 19:00	Keynote 1	
	Professor George Demiris <i>Title:</i> <i>Inclusivity as a Mandate for Informatics Design: Lessons Learned from the Pandemic</i>	
19:00	Welcome Reception	

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DAY 2: Saturday, 2 July 2022		
EEST	Erechtheion	Virtual and Aristotelis B
08:30 - 10:00	Session 8	Session 9
	<i>Chair: Reinhold Haux</i>	<i>Chair: John Mantas</i>
	Information Technologies for Cognitive Decline <i>Gina Farsiroto, Ankica Babic</i>	Methods Used to Compare Narrative Clinical Practice Guidelines: A Scoping Review <i>Mohammadreza Azarpira, Akram Redjda, Jacques Bouaud, Brigitte Seroussi</i>
	Comparing Themes Extracted via Topic Modeling and Manual Content Analysis: Korean-Language Discussions of Dementia on Twitter <i>Haeyoung Lee, Sun Joo Jang, Frederick F. Sun, Peter Broadwell, Sunmoo Yoon</i>	An Approach to Differentiate Cell painted ER and Cytoplasm Using Zernike Moment Descriptor and Multilayer Perceptron <i>Sreelekshmi P Sreekumar, Rohini Palanisamy, Ramakrishnan Swaminathan</i>
	Collecting Data from Senior Citizens using Serious Games <i>Maximilian Karthan, Paul Romahn, Rüdiger Pryss, Hans Kestler, Johannes Schobel</i>	Evaluating a Smart Healthcare System Design through Participatory Approach <i>Thais Webber, Juliana Bowles, Argyris Constantinides, Marios Belk, Emma Morley</i>
	Designing a Dashboard for HIV-data Reporting Performance by Facilities: Case Study of Kenya <i>Milka Gesicho, Ankica Babic</i>	Assessing Disparities in COVID-19 Testing Using National COVID Cohort Collaborative <i>Jinyan Lyu, Wanting Cui, Joseph Finkelstein</i>
	Ethical Issues in the Utilization of Black Boxes for Artificial Intelligence in Medicine <i>Diva Beltramin, Eugenia Lamas, Cédric Bousquet</i>	Adaptation of HL7 FHIR for the Exchange of Patients' Gene Expression Profiles <i>Florian Auer, Zhibek Abdykalykova, Dominik Müller, Frank Kramer</i>
10:00 - 10:30	Comparing Emotional Valence Scores of Twitter Posts from Manual Coding and Machine Learning Algorithms to Gain Insights to Refine Interventions for Family Caregivers of Persons with Dementia <i>Sunmoo Yoon, Peter Broadwell, Frederick F. Sun, Sun Joo Jang, Haeyoung Lee</i>	Using Machine Learning to Identify No-Show Telemedicine Encounters in a New York City Hospital <i>Wanting Cui, Joseph Finkelstein</i>
	Coffee Break	

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EEST	Erechtheion	Virtual and Aristotelis B
10:30 - 12:00	Session 10	Session 11
	<i>Chair: John Mantas</i>	<i>Chair: Emmanouil Zoulas</i>
	Panel 1: PROMs (Patient Reported Outcome Measures) Implementation as a Decision Support System: The Process in a Tertiary Hospital <i>O Shamay-Rosler, A Galper, V Stenger, E Zimlichman</i> (11:00 - 11:45)	Video Recordings of Interactions <i>Line Lundvoll Warth</i>
		Natural Language Processing Approaches for Retrieval of Clinically Relevant Genomic Information in Cancer <i>Taxiarchis Botsis, Joseph Murray, Alessandro Leal, Doreen Palsgrove, Wei Wang, James White, Victor Velculescu, the Johns Hopkins Molecular Tumor Board Investigators, Valsamo Anagnostou</i>
		Type And Number of Errors of The Iranian Electronic Health Record (SEPAS) in Hospitals Affiliated With Mashhad University of Medical Sciences <i>Masoumeh Sarbaz, Seyyedeh Fatemeh Mousavi baigi, Parviz Marouzi, Seyyed Mojtaba Hashemi Hasani, Khalil Kimiafar</i>
	Beat to BEAT - Non-Invasive Investigation of Cardiac Function on the International Space Station <i>Urs-Vito Albrecht, Martin Drobczyk, Christian Strowik, Andre Luebken, Jan Beringer, Jochen Rust, Ulf Kulau</i>	Classification of Challenges and Threats in Healthcare Cybersecurity: a Systematic Review <i>Roaa Aljuraid, Taghreed Justinia</i>
	Using Machine Learning for Predicting the Hospitalization of Emergency Department Patients <i>Georgios Feretzakis, Aikaterini Sakagianni, Dimitris Kalles, Evangelos Loupelis, Vasileios Panteris, Lazaros Tzelves, Rea Chatzikyriakou, Nikolaos Trakas, Stavroula Kolokytha, Polyxeni Batiani, Zoi Rakopoulou, Aikaterini Tika, Stavroula Petropoulou, Ilias Dalainas, Vasileios Kaldis</i>	Large-Scale EHR Suites and Path-Dependence <i>Gunnar Ellingsen, Morten Hertzum, Bente Christensen, Rolf Wynn</i>
	Time Bias Awareness in ECG-Based Multiple Source Data Matching <i>Urs-Vito Albrecht, Dennis Lawin, Sebastian Kuhn, Ulf Kulau</i>	Acceptability and Feasibility of Smart Phone Application 'OSOMO Prompt' for Health Surveillance in Older Adults by Community Health Workers <i>Niruwan Turnbull, Adisorn Wongkongdech, Ranee Wongkongdech, Thanyarat Chaiyakarm, Worawit Jitsukka, Nutchanon Kamonroek, Sutin Chanaboon, Saowaluk Seedaket, David Hughes, Kukiati Tudpor</i>

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EEST	Erechtheion	Virtual and Aristotelis B
12:00 - 13:15	Session 12	Workshop
	<i>Chair: Thomas M. Deserno</i>	<i>Chair: Alexander Berler</i>
	Designing a Social Robot Companion to Support Homecare: Usability Results <i>Alexandra Villaverde Naveira, Alexandre De Masi, Katarzyna Wac, Giulio Amabili, Martijn Vastenburg, Janna Alberts, Judith De Koning, Raymond Cuijpers, Christian Lovis</i>	eHealthPass.Blue - A Digital Healthcare Solution to Enable Self-management of Conditions and Remote Health Monitoring of the Seafarers (12:00 - 13:00)
	Seismocardiography with Smartphones: No Leap from Bench to Bedside (Yet) <i>Urs-Vito Albrecht, Dennis Lawin, Sebastian Kuhn, Ulf Kulau</i>	
	Automatic Wound Type Classification with Convolutional Neural Networks <i>Leila Malihi, Jens Hüsters, Mats L. Richter, Maurice Moelleken, Mareike Przysucha, Dorothee Busch, Jan Heggemann, Guido Hafer, Stefan Wiemeyer, Gunther Heidemanne Joachim Dissemond, Cornelia Erfurt-Berge, Ursula Hübner</i>	
	Diabetes and Obesity in Bulgaria. Study of a Large Number of Outpatient Records from 2018 <i>Evgeniy Krastev, Dimitar Tcharaktchiev, Petko Kovachev, Simeon Abanos</i>	
Applying Participatory Design Mixed-Methods Approaches to Refine Twitter-Based Social Support Interventions for African Americans and Hispanic Family Caregivers of Persons with Dementia <i>Sunmoo Yoon, Peter Broadwell, Carmela Alcantara, Nicole Davis, Frederick F. Sun, Maria De Planell Saguer, Joo Young Nho, Mary Mittelman</i>	Implementation of a Mobile Application in Acute Stroke Care Documentation <i>Clara Zoe Fricke, Frieso Geerd Stevens, Hans Worthmann, Jan Beneke, Oliver J. Bott, Anna-Lena Boeck, Johanna Ernst, Friedrich Goetz, Sibylle Schiele, Michael Marschollek, Mareike Schulze</i>	
13:15 - 14:00	Lunch Break	

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EEST	Erechtheion	
	Keynote 2	
14:00 - 14:45	Professor Thomas M. Deserno <i>Title:</i> <i>Towards Personalized and Preventive Healthcare in Smart Environments</i>	
EEST	Erechtheion	Virtual and Aristotelis B
	Session 13	Session 14
	<i>Chair: Theodoros N. Arvanitis</i>	<i>Chair: Paris Gallos</i>
	Hospital Readmission Prediction via Keyword Extraction and Sentiment Analysis on Clinical Notes <i>Aitor Zubillaga, Paula Laccourreye, Jon Kerexeta, Nekane Larburu, Eduardo Alonso, Dr. D. Jesús Gómez, Francisco Martínez, Maykel Alonso-Arce</i>	Mapping SNOMED CT Codes to Semi-structured Texts via an NLP pipeline <i>Sebastian Kunz, Cyril Zraggen, Murat Sariyar</i>
	Clinical Trials on Alternative Medicines for COVID-19 <i>Bassam Ali Jaber, Rizwan Qureshi, Alaa Abd-Alrazaq, Mohammad Azizur Rahman, Mowafa Househ, Zubair Shah, Tanvir Alam</i>	Early Diabetes Prediction: A Comparative Study Using Machine Learning Techniques <i>Tahmina Nasrin Poly, Md Mohaimenul Islam, Yu-Chuan (Jack) Li</i>
14:45 - 16:15	Panel 2: AI for Health - the Equity Question <i>C El Morr, F Muhlenbach, R Gorman</i> (15:30 - 16:15)	Multinomial Classification of Neurosurgical Operations Using Gradient Boosting and Deep Learning Algorithms <i>Gleb Danilov, Konstantin Kotik, Michael Shifrin, Yulia Strunina, Tatiana Pronkina, Tatiana Tsukanova, Vladimir Nepomnyashiy, Nikolay Konovalov, Alexander Potapov</i>
		Symptom Management and Quality of Life of Palliative Cancer Patients after being Administered with Thai Medicinal Cannabis <i>Ranee Wongkongdech, Narisara Pansila, Pichit Nonetoom, Niruwan Turnbull, Adisorn Wongkongdech</i>
		Interactive Voice Response Service to Improve High School Students Covid-19 Literacy in Burkina Faso: a Usability Study <i>Michel J Some, Ismaila Ouedraogo, Roland Benedikter, Rasmané Yameogo, Ghislain Atemezing, Ibrahim Traoré, Gayo Diallo</i>
16:15 - 16:45	Coffee Break	

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EEST	Erechtheion	Virtual and Aristotelis B
16:45 - 18:15	Session 15	Session 16
	<i>Chair: Kajia Saranto</i>	<i>Chair: Paris Gallos</i>
	Citizens' Use of eHealth Services during COVID-19 in relation to National Policy Goals <i>Sabine Koch, Vivian Vimarlund</i>	The Utilization of Digital Health Dashboards in Improving COVID-19 Vaccination Uptake, Accounting for Health Inequities <i>Brianna White, Arash Shaban-Nejad</i>
	Medical Device Incident Reports by Professional Users in Finland 2014-2021 <i>Krista Kumpuvaara, Vesa Jormanainen, Tarja Vainiola, Tuija Ikonen</i>	Automated Segmentation of Lateral Ventricles in Alzheimer's Conditions Using UNET++ Model <i>Shabina Shaikh, Nagarajan Ganapathy, Ramakrishnan Swaminathan</i>
	Conception, Development and Validation of Classification Methods for Coding Support of Rare Diseases using Artificial Intelligence <i>Richard Noll, Mirjam Minor, Alexandra Berger, Lukas Naab, Matthias Bay, Holger Storf, Jannik Schaaf</i>	Requirement Analysis for an Intelligent Warning System to Alarm the Rapid Response Team Prior to Patient Deterioration <i>Sharareh Rostam Niakan Kalhori, Thomas Deserno</i>
	Collaborative Learning Using Escape Designs and Pedagogies. A Needs Analysis Protocol <i>Fivos Efstratios Papamalis, Panagiotis Antoniou, Ioannis Poultoirtzidis, Maria Nikolaidou, Terence Alan Poulton, Panagiotis Bamidis</i>	Artificial intelligence: on the Way to Doctor's Trust <i>Michael Shifrin, Anton Khavtorin, Gleb Danilov</i>
	Discovering Association Rules in Antimicrobial Resistance in Intensive Care Unit <i>Aikaterini Sakagianni, Georgios Feretzakis, Dimitris Kalles, Evangelos Loupelis, Zoi Rakopoulou, Ilias Dalainas, Georgios Fildis</i>	Complexity and Health Technology Safety <i>Elizabeth Borycki, Amr Farghali, Andre Kushniruk</i>
	3D Digital Printing in Healthcare: Technologies, Applications and Health Issues <i>Sotirios Anagnostopoulos, Paris Gallos, Emmanouil Zoulias, Nikolaos Fotos, John Mantas</i>	Predicting the Length of Stay in Neurosurgery with RuGPT-3 Language Model <i>Gleb Danilov, Konstantin Kotik, Elena Shevchenko, Dmitriy Usachev, Michael Shifrin, Yulia Strunina, Tatiana Tsukanova, Timur Ishankulov, Vasiliy Lukshin, Alexander Potapov</i>
	Erechtheion	
	Keynote 3	
18:15 - 19:00	Professor Theodoros N. Arvanitis Title: <i>Opportunities and Challenges for AI-based, Data-Driven Innovations in Medical Imaging</i>	
19:30	Gala Dinner	

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DAY 3: Sunday, 3 July 2022		
EEST	Erechtheion	Virtual and Aristotelis B
10:00 - 11:30	Session 17	Session 18
	<i>Chair: Arie Hasman</i>	<i>Chair: John Mantas</i>
	Cluster Analysis Assessment in Proposing a Surgical Technique for Benign Prostatic Enlargement <i>Lazaros Tzelves, Georgios Feretzakis, Dimitris Kalles, Ioannis Manolitsis, Stamatis Katsimperi, Antonis Valachis, Athanasios Anastasiou, Dimitrios Koutsouris, Stavroula Kofopoulou, Vassilios Verykios, Andreas Skolarikos, Ioannis Varkarakis</i>	A Machine Learning Solution to Predict Elective Orthopedic Surgery Case Duration <i>Divya Sahadev, Thomas Lovegrove-Bacon, Holger Kunz</i>
	Augmenting the Doctor of the 21st century with Patient-centered Communication Skill-sets: the FOR21 project <i>Maria Nikolaidou, Anastasia Rodina-Theocharaki, Emmanouil Smyrnakis, Panagiotis Bamidis</i>	Physician Acceptance of Machine Learning for Diagnostic Purposes: Caution, Bumpy Road Ahead! <i>Thamer Aledresee</i>
	Web Quality Assurance of Information in Healthcare <i>Maria Tsirintani</i>	Mental Health Teleconsultation Patterns on the Most Popular mHealth Platforms in Indonesia <i>Azzahra Putri, Farrel A Marsetyo, Umar S A Atmaja, Anis Fuad</i>
	A Formal Model for the FAIR4Health Information Architecture <i>Mona Perbix, Matthias Löbe, Sebastian Stäubert, A. Anil Sinaci, Mert Gencturk, Miriam Quintero, Alicia Martinez-Garcia, Celia Alvarez-Romero, Carlos L. Parra-Calderon, Alfred Winter</i>	Integration of Biobanking Architecture with Genomics Data: Genomics Integrated Biobanking Ontology (GIBO) <i>Nitya Singh, Naomi Braun, William Hogan, Mathias Brochhausen</i>
	Electronic Patient Reported Outcomes for Miscarriage Research in Tommy's Net <i>Omar Khan, Shramika Gour, Sarah Lim Choi Keung, Natalie Morris, Rebecca Shields, Siobhan Quenby, Danai B. Dimakou, Oonagh Pickering, Jennifer Tamblin, Adam Devall, Arri Coomarasamy, Danielle K. Thornton, Alison Perry, Theodoros N. Arvanitis</i>	Effect of Hydroxychloroquine on Influenza Prevention <i>Xingyue Huo, Joseph Finkelstein</i>
	Using Association rules in Antimicrobial Resistance in Stone Disease Patients <i>Ioannis Manolitsis, Georgios Feretzakis, Lazaros Tzelves, Dimitris Kalles, Evangelos Loupelis, Stamatis Katsimperi, Thanos Kosmidis, Athanasios Anastasiou, Dimitrios Koutsouris, Stavroula Kofopoulou, Vassilios Verykios, Andreas Skolarikos, Ioannis Varkarakis</i>	A Hand Motion Tracker Supporting Home-based Rehabilitation for People with Hemiplegia due to Stroke <i>Konstantinos Katzis, Pavlina Psychouli</i>
11:30 - 12:00		Evaluating a Competency-based MOOC for Paediatric Training <i>Despina Papakonstantinou</i>
		Coffee Break

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EEST	Erechtheion	Aristotelis B
12:00 - 13:00	Session 19	Workshop
	Chair: John Mantas	Chair: Reinhold Haux
	Structural and Semantic Mapping of Application Programming Interfaces Ashley R. Peake, Omar Khan, Sarah Lim Choi Keung, Mustafa Yuksel, Gökce Banu Laleci Erturkmen, Theodoros N. Arvanitis	Developments of Health Information Systems in Past, Present, and Future
	Explainable Optimized LightGBM based Differentiation of Mild Cognitive Impairment using MR Radiomic Features Sreelakshmi Shaji, Rohini Palanisamy, Ramakrishnan Swaminathan	
	A Bibliometric Analysis of Virtual Reality-Aided Vision Therapy Qasim Ali, Ilona Heldal, Carsten Helgesen	
	Using an Extended Technology Acceptance Model to Evaluate Digital Health Services Diana Akritidi, Paris Gallos, Vassiliki Koufi, Flora Malamateniou	
13:15 - 14:00	Keynote 4	
	Professor Sabine Koch Title: Measuring Digital Health in the Nordic Countries: Results of the Nordic eHealth Research Network	
14:00 - 15:00	Lunch Break	

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EEST	Erechtheion	Virtual and Aristotelis B
15:00 - 15:45	Workshop/Demonstration	Session 20
	<i>Chairs: P. Bonotis and P. Natsiavas</i>	<i>Chair: Emmanouil Zoulas</i>
	MyPal Platform – Fostering Palliative Care for Cancer Patients via Electronic Patient Reported Outcomes (ePROs)	Assessing Internal Consistency of HAIS Q: A Survey Conducted in Greek Hospitals <i>Andriana Magdalina, Athena Kalokairinou, Flora Malamateniou, John Mantas</i>
		Evaluating the Quality of a Clinical Mobile App for Physicians CT Scan Ordering Using the MARS Rating Scale <i>Zahra Meidani, Aydin Omidvar, Fatemeh Asghari, Hossein Akbari, Reza Khajouei, Ehasn Nabovatia, Sahar Zare, Felix Holl</i>
		Do Health Technology Safety Issues Vary by Vendor? <i>Elizabeth Borycki, Amr Farghali, Andre Kushniruk</i>
		The Transition to Distance Learning in the Era of Covid19 Pandemic: The Perceptions and Experiences of Nursing Students <i>Andrianna Magdalina, Joseph Liaskos, Marianna Isaakidou, John Mantas</i>

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EEST	Erechtheion	Virtual and Aristotelis B
15:45 - 17:00	Session 21	Session 22
	<i>Chair: John Mantas</i>	<i>Chair: Patrick Weber</i>
	CAREPATH: Developing Digital Integrated Care Solutions for Multimorbid Patients with Dementia <i>Omid Pournik, Bilal Ahmad, Sarah Lim Choi Keung, Omar Khan, George Despotou, Angelo Consoli, Jaouhar Ayadi, Luca Gilardi, Gökçe Banu Laleci Erturkmen, Mustafa Yuksel, Mert Gencturk, Henrike Gappa, Martin Breidenbach, Yehya Mohamad, Carlos Velasco, Oana Cramariuc, Cristiana Ciobanu, Elena Gomez Jimenez, Almudena Avendaño Céspedes, Rubén Alacatud Corcoles, Elisa Belén Cortés Zamora, Pedro Abizanda, Antje Steinhoff, Wolfgang Schmidt-Barzynski, Timothy Robbins, Ioannis Kyrou, Harpal Randeve, Lionello Ferrazzini, Theodoros N. Arvanitis</i>	Investigating Diabetes Mellitus Impact on Various Aspects Of Patients' Quality Of Life <i>Ifigeneia Vasiliki Kontoteza, Aggeliki Dragamestianou, Petros Galanis, Olga Siskou, Athanasia Papazafeiropoulou, Olympia Konstantakopoulou, Parisi Gallos, Iliana Karagkouni, Daphne Kaitelidou</i>
	Deep Time Growing Neural Network vs Convolutional Neural Network for Intelligent Phonocardiography <i>Arash Gharehbaghi, Ankica Babic</i>	Chances and Risks of Using Robotic Assistance Systems in Early Neurological Rehabilitation: A Qualitative Analysis <i>Ann-Kathrin Waibel, Felix Hall, Walter Swoboda, Marina Fotteler</i>
	A comparison of Convolutional Neural Networks and traditional feature-based Classification applied to Leukaemia Image Analysis <i>Marinela Branesco, Stephen Swift, Allan Tuckera</i>	Investigating Diabetes Mellitus Patients' Experiences for Self Monitoring Blood Glucose Methods <i>Aggeliki Dragamestianou, Ifigeneia Vasiliki Kontoteza, Olga Siskou, Petros Galanis, Athanasia Papazafeiropoulou, Olympia Konstantakopoulou, Parisi Gallos, Iliana Karagkouni, Daphne Kaitelidou</i>
	Exploratory Clustering for Emergency Department Patients <i>Georgios Feretzakis, Aikaterini Sakagianni, Dimitris Kalles, Evangelos Loupelis, Lazaros Tzelves, Vasileios Panteris, Rea Chatzikyriakou, Nikolaos Trakas, Stavroula Kolokytha, Polyxeni Batiani, Zoi Rakopoulou, Aikaterini Tika, Stavroula Petropoulou, Ilias Dalainas, Vasileios Kaldis</i>	Using mHealth Technologies to Promote Public Health and Well-Being in Urban Areas with Blue-Green Solutions <i>Parisi Gallos, Andreas Menychtas, Christos Panagopoulos, Maria Kaselimi, Anastasios Temenos, Ioannis Rallis, Anastasios Doulamis, Nikolaos Doulamis, Manthos Bimpas, Aikaterini Aggeli, Eftychios Protopapadakis, Emmanuel Sardis, Ilias Maglogiannis</i>
	Application of Machine Learning to Examine Social Service Needs Among Hispanic Family Caregivers of Persons with Dementia <i>Sunmoo Yoon, Alexandra Mendes, Louis Burgio, Mary Mittelman, Ilana Dunner, Jed A. Levine, Carolina Hoyos, Dante Tipiani, Mildred Ramirez, Jeanne A. Teresi, José A. Luchsinger</i>	Intelligent Pervasive Monitoring Solution of COVID-19 Patients <i>Christos Panagopoulos, Andreas Menychtas, Edison Jahaj, Alice Georgia Vassiliou, Parisi Gallos, Ioanna Dimopoulou, Anastasia Kotanidou, Ilias Maglogiannis</i>
17:00 - 17:30	Coffee Break	

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EEST	Erechtheion	Aristotelis B
17:30 - 18:45	Session 23	Session 24
	<i>Chair: Sabine Koch</i>	<i>Chair: Emmanouil Zoulas</i>
	A Method for the Classification of Digital Health Architectures as Medical Devices a Digital Health Research Perspective <i>George Despotou, Stuart Harrison, Theodoros N. Arvanitis</i>	Tracing the Paradigm shift on Relationships through eHealth components in Health Care <i>Julia Krumme, Linda Wienands, László Kovács</i>
	Serious Gaming and Artificial Intelligence in Rehabilitation of Rheumatoid Arthritis <i>Gabriela Varga, Lacramioara Stoicu-Tivadar, Stelian Nicola</i>	Overview of Existing Tools for Extracting Health and Fitness Data from mHealth apps <i>Mohamed Khaled, Mahdi Sareban, Markus Kreuzthaler, Stefan Schulz, Rada Hussein</i>
	A Conceptual Framework for Fetus Head Analysis Based on Ultrasound Images <i>Mahmood Alzubaidi, Marco Agus, Uzair Shah, Michel Makhoul, Khalid Alyafei, Ali Zaidi, Mowafa Househ</i>	PeterPandemic: A Serious Game for Pandemic Management <i>Maximilian Karthan, Annika Kreuder, Ulrich Frick, Rüdiger Pryss, Johannes Schobel</i>
	Overcoming Major Barriers to Build Efficient Decision Support Systems in Pharmacovigilance <i>Kory Kreimeyer, Jonathan Spiker, Taxiarchis Botsis</i>	Need of Equity in Virtual Mental Health in Canada in The Times of COVID-19 <i>Bushra Kundi, Christo El Morr</i>
	Superusers of self-paced online learning on OpenWHO <i>Heini Utunen, Lama Mattar, Corentin Piroux, Ngouille Ndiaye, Paula Christen, Melissa Attias</i>	Treatment Prediction in the ICU Setting using a Partitioned, Sequential Deep Time Series Analysis <i>Michael Shapiro, Yuval Shahar</i>
		Open Source Web Application: An application on Health Tourism in Greece <i>Eleanna Tsoutsani, Emmanouil Zoulas, Parisi Gallos, John Mantas</i>
EEST	Erechtheion	
18:45 - 19:00	Closing Ceremony Best Paper, Best Poster, and Best Student Paper Awards <i>John Mantas and Arie Hasman</i>	

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	Posters Presentations Chairs: Patrick Weber and John Mantas
	Point-of-care Speech-recognition based mHealth Solution to Facilitate Physicians' Daily Work <i>Fabian Kerwagen, Konrad F. Fuchs, Melanie Ullrich, Andres Schulze, Andreas Kunz, Georg Fette, Maximilian Ertl</i> <i>Virtual Presentation (Session 20)</i>
	Beyond the Brain: MIDS Extends BIDS to Multiple Modalities and Anatomical Regions <i>Silvia Nadal Almela, Jose M. Saborit Torres, Joaquim A. Montell Serrano, Elena Oliver Garcia, Hector Carceller Cerda, Jon A. Gomez Adrian, Marisa Caparros Redondo, Francisco Garcia Garcia, Julio Domenech Fernandez, Maria de la Iglesia-Vaya</i>
	Ethical, Legal and Social Implications in a Nursing Field Study in Bavaria <i>Ann-Kathrin Waibel, Nadine Seifert, Walter Swoboda</i> <i>Virtual Presentation (Session 22)</i>
	Inference Time of a CamemBERT Deep Learning Model for Sentiment Analysis of COVID Vaccines on Twitter <i>Guillaume Guerdoux, Théophile Tiffet, Cédric Bousquet</i>
	BeWell@Digital' - Supporting Young People's Mental Health in Western Balkans with e-solutions <i>Katja Čič, Bojana TOSIC</i>