

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
	Session 1	Session 2
	<i>Chair:</i>	<i>Chair:</i>
	Superusers of self-paced online learning on OpenWHO Heini Utunen, Lama Mattar, Corentin Piroux, Ngouille Ndiaye, Paula Christen, Melissa Attias	The Role of Artificial Intelligence and Machine Learning During the Covid-19 Pandemic: a review Mohammed Aldhoayan
	Assessing Internal Consistency of HAIS Q: A survey conducted in Greek Hospitals Andriana MAGDALINOY, Athena KALOKAIRINOY, Flora MALAMATENIOY, John MANTAS	Impact of Class I Software as medical Devices (SaMDs) on Public Health Marlon Luca Machal
	The ERN-LUNG Population Registry: aims, software-implementation and first results Jannik Schaaf, Axel Zieschank, Jens Göbel, Thomas O F Wagner, Petra Pennekamp, Heymut Omran, Holger Storf	Usability Evaluation of a Modern Multilingual MeSH Browser Philip Strecker, Martin Boeker, Simon Buechner, Raphael Scheible
09:00 - 10:45	Use of Electronic Health Information to Advance Health Research Bander Alanazi, FAYEZ ALANEZI, Ibtisam Alanazi	Determining the set of items to include in breast operative reports, using clustering algorithms on retrospective data extracted from Clinical DataWarehouse Adrien BOUKOBZA, Maxime Wack, Antoine Neuraz, Daniela Geromin, Cécile Badoual, Anne-Sophie Bats, Anita BURGUN, Meriem Koual, Rosy TSOPRA
	The implementation of a participatory technology development process in a clinical setting Nicole Hechtel, Alexander Dürsch, Peter Prowinsky, Jörn Krückeberg	Evaluating the Impact of Digital Game on Learning Medical Terminology of Paramedical Students: Protocol for a Randomized Controlled Trial Seyyedeh Fatemeh Mousavi baigi, Masoumeh Sarbaz, Parviz Marouzi, Khalil Kimiafar
	ICT tools for registry research: a market survey Jürgen Stausberg, Sonja Harkener	The Impact of COVID-19 on Mental Health Services in Scotland, UK Elizabeth Cooke, Agnieszka Lemanska, Jennifer Livings, Spencer Thomas
	Physician acceptance of machine learning for diagnostic purposes: caution, bumpy road ahead! Thamer Aledresee	Data Cleaning Process for mHealth Log Data to Inform Health Worker Performance Simon Savai, Mohammad Hasan, Jemimah Kamano, Lawrence Misoi, Peter Wakholi, Martin Were
10:45 - 11:15	Coffee Break	

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EEST	Erechtheion	Virtual and Aristotelis B
	Session 3	Session 4
	<i>Chair:</i>	<i>Chair:</i>
	Time Bias Awareness in ECG-Based Multiple Source Data Matching Urs-Vito Albrecht, Dennis Lawin, Sebastian Kuhn, Ulf Kulau	Blockchain enabled patient centred care for inflammatory bowel disease: 4 principles for socio-technical and clinical alignment Laura Hollingsworth, Ming Chao Wong, Kwang Chien Yee
	Towards an evolutionary open pediatric intensive care data set in the ELISE project Antje Wulff, Marcel Mast, Louisa Bode, Henning Rathert, Elise Study Group, Thomas Jack	Impact of Follow-up Imaging Recommendation Specificity on Adherence Thusitha Mabotuwana, Christopher Hall, Vadi Hombal, Sandeep Dalal, Martin Gunn
	Effectiveness of Serious Games for Language Processing amongst Elderly Population with Cognitive Impairment: A Systematic Review and Meta-analysis Alaa Abd-Alrazaq, Asma Hassan, Israa Abuelezz, Mohamed Khalifa, Arfan Ahmed, Ahmad ALDARDOUR, Eiman Al-jafar, Tanvir Alam, Zubair Shah, Mowafa Househ	Data protection in healthcare research: Medical students' knowledge and behavior Marialida Farah, Samar Helou, Pascal Tufenkji, Elie El Helou
11:15 - 13:00	Visualization System for the Impact of Context Open Data in Clinical Settings Eduardo Alonso, Teresa Garcia-Navarro, Nekane Larburu	The Podcast "Digitization of Medicine" as a Form of Science Communication Marianne Behrends, Joana M. Warnecke, Marie-Louise Witte, Carolin Klembt, Ina Hoffmann
	Effectiveness of Serious Games for Visuospatial Abilities in Elderly Population with Cognitive Impairment: A Systematic Review and Meta-analysis Alaa Abd-Alrazaq, Israa Abuelezz, Asma Hassan, Mohamed Khalifa, Arfan Ahmed, Ahmad ALDARDOUR, Eiman Al-jafar, Tanvir Alam, Zubair Shah, Mowafa Househ	A systematic review on improving health literacy in rural Africa using mobile serious games Ismaila Ouedraogo, Michel J Some, Roland Benedikter And Gayo Diallo
	Beat to BEAT - Non-Invasive Investigation of Cardiac Function on the International Space Station Urs-Vito Albrecht, Martin Drobczyk, Christian Strowik, Andre Luebken, Jan Beringer, Jochen Rust, Ulf Kulau	Substantive Intertretation of Machine Learning Solutions by the Example of Determining the Activity of the Tuberculosis Process in Individuals with Minimal Tuberculosis Residual Changes Nikolai Chernavin, Tatyana Tulkova, Pavel Chernavin, Igor Chernyaev, Yuri Chugaev
	Artificial Intelligence-based Mobile Application for Sensing Children Emotion through Drawings Nashva Ali, Alaa Abd-Alrazaq, Zubair Shah, Mohammad Alajlani, Tanvir Alam, Mowafa Househ	The Impact of the COVID-19 Pandemic on Physician Electronic Health Record Use and Burden at a Canadian Mental Health Hospital Brian Lo, Lydia Sequeira, Anjchuca Karunaitas, Gillian Strudwick, Damian Jankowicz, Tania Tajirian
13:00 - 14:00	Lunch Break	

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EEST	Erechtheion	Virtual and Aristotelis B
	Session 5	Session 6
	<i>Chair:</i>	<i>Chair:</i>
	Caregivers Interactions with Clinical Autocomplete Tool: a Retrospective Study Jamil Zaghir, Jean-Philippe Goldman, Mina Bjelogric, Christophe Gaudet-Blavignac, Christian Lovis	Information provision and quality. A pilot study on shared decision-making in multiple sclerosis Hanna Kuusisto, Seija Apila, Kaija Saranto
	Towards the Adoption of Novel Visualizations in Public Health Simon Minshall, Helen Monkman, Andre Kushniruk, Luca Calzoni	The effects of Health behavior changing Program for Systolic Blood Pressure Reduction among Thai Buddhist Monks, Thailand. Supattra Noo-in, Thidarat SOMDEE, Chitkamon Srichompoo, Santisith Khiewkhern
	An Improved Infrastructure for Privacy-Preserving Analysis of Patient Data Djura Smits, Bart van Beusekom, Frank Martin, Lourens Veen, Gijs Geleijnse, Arturo Moncada-Torres	Analyzing SARS-CoV-2 Sequence Patterns by Semantic Trajectories Wissame LADDADA, Cecilia Zanni-Merk, Lina F. Soualmia
	External Validation and Transportability of Models to Predict Acute Kidney Injury in the Intensive Care Unit Iacopo Vagliano, Carmen BYRNE SALSAS, Tina WÜNN, Martijn Schut	Portable Health Clinic System for Maternal and Child Health Care in COVID-19 Pandemic Situation Rafiqul Islam, Kimiyo Kikuchi, Yoko Sato, Rieko Izukura, Mariko Nishikitani, Nusrat Jahan, Meherun Nessa, Fumihiko Yokota, Ashir Ahmed, Naoki Nakashima
14:00 - 15:45	The Utilization of Health Informatics Interventions in the COVID-19 Pandemic: A Scoping Review Amanda Joseph, Helen Monkman, Andre Kushniruk, Elizabeth Borycki	Health-related content in transformer-based deep neural network language models: exploring cross-linguistic syntactic bias Giuseppe Samo, Caterina Bonan, Fuzhen Si
	Data federation in healthcare for artificial intelligence solutions Julio Castellanos, Gonzalo Raposo, Lucia Antunez	Comparison of Non-AI and AI-Enabled m-Health Platforms for COVID-19 Self Screening in Indonesia Sekar Putri Andriani, Padmanaba ADHYANACARIRA, Anis Fuad, Ariani Arista Putri PERTIWI
	An Evaluation Guide and Decision Support Tool for Journey Maps in Healthcare and Beyond Amanda Joseph, Helen Monkman, Andre Kushniruk	Implementation of A Geographic Information System-Based Smartphone Application for Health Vigilance in Older Adults by Village Health Volunteers (OSOMO) Niruwan Turnbull, Adisorn Wongkongdech, Ranee Wongkongdech, Thanyarat Chaikyarm, Worawit Jitsukka, Kemika Sombateyotha, Songkramchai Leethongdeesakul, Narongsakdi Kuboonya-Aragsa, Chalard Chantarsombat, Krissanachai Kimchai, Nutchanun Kamonroek, David Hughes And Kukiati Tudpor
15:45 - 16:15	Coffee Break	

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EEST	Erechtheion	Virtual and Aristotelis B
16:15 - 17:45	Session 7	Session 8
	<i>Chair:</i>	<i>Chair:</i>
	Contextualizing Online Laboratory (lab) Results and Mapping the Patient Journey Amanda Joseph, Helen Monkman, Leah MacDonald, Andre Kushniruk	Data Literacy in Medical Education – An Expedition into the World of Medical Data Ina Hoffmann, Marianne Behrends, , Highmededucation Consortium, Michael Marschollek
	COVID-BIOCHIP: a Web Tool to Analyse COVID-19 Antigen Microarrays Aurora Sucre, Isabel Amaya-Rodriguez, Hee-Sool Rho, Sonia Serna, Niels Reichardt, Alba Garin-Muga, Gorka Epelde	Using logistic regression to predict long COVID conditions in chronic patients Adnan Kulenovic, Azra Kulenovic
	Comparison of data classification results for Leap Motion recovery gestures Stelian Nicola, Oana Sorina Chirila, Lacramioara Stoicu-Tivadar	Integrating Human Patterns of Qualitative Coding with Machine Learning: A Pilot Study Involving Technology-induced Error Incident Reports Elizabeth Borycki, Amr Farghali, Andre Kushniruk
	Federated Learning and Internet of Medical Things – Opportunities and Challenges Hazrat Ali, Tanvir Alam, Mowafa Househ, Zubair Shah	Explaining Contextualized Word Embeddings in Biomedical Research – A Qualitative Investigation Marko Miletic, Murat Sariyar
	Student experience and its relationship with campus mental well-being Lua Perimal-Lewis, Patricia A H Williams	Evaluating Usability of Telehealth Sehhaty Application Used in Saudi Arabia During Covid-19 Aisha Dawood, Dr. Khulud Alkadi
Artificial Intelligence-based Models for Predicting Vaccines Critical Tweets: An Experimental Study Uzair Shah, Hazrat Ali, Tanvir Alam, Mowafa Househ, Zubair Shah	The Sortal Concept in the Context of Biomedical Record Linkage Marko Miletic, Murat Sariyar	
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
	Session 9	Session 10
	<i>Chair:</i>	<i>Chair:</i>
	Information technologies for cognitive decline Gina Farsirotos, Ankica Babic	Methods Used to Compare Narrative Clinical Practice Guidelines: A Scoping Review Mohammadreza Azarpira, Akram REDJDAL, Jacques BOUAUD, Brigitte SEROUSSI
	Comparing Themes Extracted via Topic Modeling and Manual Content Analysis: Korean-Language Discussions of Dementia on Twitter Haeyoung Lee, Sun Joo Jang, Frederick F. Sun, Peter Broadwell, Sunmoo Yoon	An Approach to Differentiate Cell painted ER and Cytoplasm Using Zernike Moment Descriptor and Multilayer Perceptron Sreelekshmi P Sreekumar, Rohini Palanisamy, Ramakrishnan Swaminathan
08:30 - 10:00	Collecting Data from Senior Citizens using Serious Games Maximilian Karthan, Paul Romahn, Rüdiger Pryss, Hans Kestler, Johannes Schobel	Evaluating a smart healthcare system design through participatory approach Thais Webber, Juliana Bowles, Argyris Constantinides, Marios Belk, Emma Morley
	Designing a dashboard for HIV-data reporting performance by facilities: Case study of Kenya Milka Gesicho, Ankica Babic	Assessing Disparities in COVID-19 Testing Using National COVID Cohort Collaborative Jinyan Lyu, Wanting Cui, Joseph Finkelstein
	Ethical issues in the utilization of black boxes for artificial intelligence in medicine Diva Beltramin, Eugenia Lamas, Cédric Bousquet	Adaptation of HL7 FHIR for the exchange of patients' gene expression profiles Florian Auer, Zhibek Abdykalykova, Dominik Müller, Frank Kramer
	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 Sunmoo Yoon, Peter Broadwell, Frederick F. Sun, Sun Joo Jang, Haeyoung Lee	Using Machine Learning to Identify No-Show Telemedicine Encounters in a New York City Hospital Wanting Cui, Joseph Finkelstein
10:00 - 10:15	Coffee Break	

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EEST	Erechtheion	Virtual and Aristotelis B
	Session 11	Session 12
		<i>Chair:</i>
	<p>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)</p>	<p>Do Health Technology Safety Issues Vary by Vendor? Elizabeth Borycki, Amr Farghali, Andre Kushniruk</p>
10:15 - 11:45		<p>Natural Language Processing Approaches for Retrieval of Clinically Relevant Genomic Information in Cancer Taxiarchis Botsis, Joseph Murray, Alessandro Leal, Doreen Palsgrove, Wei Wang, James White, Victor Velculescu, the Johns Hopkins Molecular Tumor Board Investigators, Valsamo Anagnostou</p>
		<p>Type And Number of Errors of The Iranian Electronic Health Record (SEPAS) in Hospitals Affiliated With Mashhad University of Medical Sciences Masoumeh Sarbaz, Seyyedeh Fatemeh Mousavi baigi, Parviz Marouzi, Seyyed Mojtaba Hashemi Hasani, Khalil Kimiafar</p>
	<p>Panel 2: AI for Health - the Equity Question <i>C El Morr, F Muhlenbach, R Gorman</i> (11:45 - 12:30)</p>	<p>Classification of Challenges and Threats in Healthcare Cybersecurity: a Systematic Review Roaa Aljuraid, Taghreed Justinia</p>
		<p>Large-Scale EHR Suites and Path-Dependence Gunnar Ellingsen, Morten Hertzum, Bente Christensen, Rolf Wynn</p>
		<p>Acceptability and Feasibility of Smart Phone Application 'OSOMO Prompt" for Health Surveillance in Older Adults by Community Health Workers Niruwan Turnbull, Adisorn Wongkongdech, Ranee Wongkongdech, Thanyarat Chaikakarm, Worawit Jitsukka, Nutchanon Kamonroek, Sutin Chanaboon, Saowaluk Seedaket, David Hughes, Kukiatt Tudpor</p>

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EEST	Erechtheion	Virtual and Aristotelis B
	Session 13	Workshop
	<i>Chair:</i>	<i>Chair: A Berler</i>
11:45 - 13:00	Designing a Social Robot Companion to Support Homecare: Usability Results Alexandra Villaverde Naveira, Alexandre De Masi, Katarzyna Wac, Giulio Amabili, Martijn Vastenburger, Janna Alberts, Judith De Koning, Raymond Cuijpers, Christian Lovis	eHealthPass.Blue - a digital healthcare solution to enable self-management of conditions and remote health monitoring of the seafarers (12:30 - 13:30)
	Seismocardiography with Smartphones: No Leap from Bench to Bedside (Yet) Urs-Vito Albrecht, Dennis Lawin, Sebastian Kuhn, Ulf Kulau	
	Automatic Wound Type Classification with Convolutional Neural Networks 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	
	Diabetes and Obesity in Bulgaria. Study of a Large Number of Outpatient Records from 2018 Evgeniy Krastev, Dimitar Tcharaktchiev, Petko Kovachev, Simeon Abanos	
	Applying Participatory Design Mixed-Methods Approaches to Refine Twitter-Based Social Support Interventions for African Americans and Hispanic Family Caregivers of Persons with Dementia Sunmoo Yoon, Peter Broadwell, Carmela Alcantara, Nicole Davis, Frederick F. Sun, Maria De Planell Saguer, Joo Young Nho, Mary Mittelman	Implementation of a mobile application in acute stroke care documentation 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
13:00 - 14:00	Lunch Break	

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EEST	Erechtheion	
14:00 - 14:45	Keynote 2	
	Professor Thomas M. Deserno	
EEST	Erechtheion	Virtual and Aristotelis B
14:45 - 16:15	Session 14	Session 15
	Chair:	Chair:
	Hospital Readmission Prediction via Keyword Extraction and Sentiment Analysis on Clinical Notes Aitor Zubillaga, Paula Laccourreya, Jon Kerexeta, Nekane Larburu, Eduardo Alonso, Dr. D. Jesús Gómez, Francisco Martínez, Maykel Alonso-Arce	Mapping SNOMED CT Codes to Semi-structured Texts via an NLP pipeline Sebastian Kunz, Cyril Zraggen, Murat Sariyar
	Clinical Trials on Alternative Medicines for COVID-19 Bassam Ali Jaber, Rizwan Qureshi, Alaa Abd-Alrazaq, Mohammad Azizur Rahman, Mowafa Househ, Zubair Shah, Tanvir Alam	Early Diabetes Prediction: A Comparative Study Using Machine Learning Techniques Tahmina Nasrin Poly, Md Mohaimenul Islam, Yu-Chuan (Jack) Li
	An Autoscaling Platform supporting Graph Data Modelling Big Data Analytics Athanasios Kiourtis, Panagiotis Karamolegkos, Andreas Karabetian, Konstantinos Voulgaris, Yannis Poulakis, Argyro Mavrogiorgou, Dimosthenis Kyriazis	Multinomial Classification of Neurosurgical Operations Using Gradient Boosting and Deep Learning Algorithms Gleb Danilov, Konstantin Kotik, Michael Shifrin, Yulia Strunina, Tatiana Pronkina, Tatiana Tsukanova, Vladimir Nepomnyashiy, Nikolay Konovalov, Alexander Potapov
	Evaluating the Quality of a Clinical Mobile App for Physicians CT Scan Ordering Using the MARS Rating Scale Zahra Meidani, Aydin Omidvar, Fatemeh Asghari, Hossein Akbari, Reza Khajouei, Ehasn Nabovatia, Sahar Zare, Felix Holl	Symptom management and Quality of Life of Palliative Cancer patients after being administered with Thai medicinal cannabis Ranee Wongkongdech, Narisara Pansila, Pichit Nonetoom, Niruwan Turnbull, Adisorn Wongkongdech
	3D Digital Printing in Healthcare: Technologies, Applications and health issues Sotirios Anagnostopoulos, Paris Gallos, Emmanouil Zoulias, Nikolaos Fotos, John Mantas	Interactive Voice Response service to improve high school students Covid-19 literacy in Burkina Faso: a usability study Michel J Some, Ismaila Ouedraogo, Roland Benedikter, Rasmané Yameogo, Ghislain Atemezing, Ibrahim Traoré, Gayo Diallo
	Using Machine learning for predicting the hospitalization of emergency department patients Georgios Feretzakis, Aikaterini Sakagianni, Dimitris Kalles, Evangelos Loupelis, Vasileios Panteris, Lazaros Tzelvels, Rea Chatzikyriakou, Nikolaos Trakas, Stavroula Kolokytha, Polyxeni Batiani, Zoi Rakopoulou, Aikaterini Tika, Stavroula Petropoulou, Ilias Dalainas, Vasileios Kaldis	
16:15 - 16:30	Coffee Break	

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EEST	Erechtheion	Virtual and Aristotelis B
	Session 16	Session 17
	<i>Chair:</i>	<i>Chair:</i>
	Citizens' use of eHealth services during COVID-19 in relation to national policy goals Sabine Koch, Vivian Vimarlund	The Utilization of Digital Health Dashboards in Improving COVID-19 Vaccination Uptake, Accounting for Health Inequities Brianna White, Arash Shaban-Nejad
	Medical Device Incident Reports by Professional Users in Finland 2014-2021 Krista Kumpuvaara, Vesa Jormanainen, Tarja Vainiola, Tuija Ikonen	Automated Segmentation of Lateral Ventricles in Alzheimer's Conditions Using UNET++ Model Shabina Shaikh, Nagarajan Ganapathy, Ramakrishnan Swaminathan
	Conception, development and validation of classification methods for coding support of Rare Diseases using Artificial Intelligence Richard Noll, Mirjam Minor, Alexandra Berger, Lukas Naab, Matthias Bay, Holger Storf, Jannik Schaaf	Requirement Analysis for an Intelligent Warning System to Alarm the Rapid Response Team Prior to Patient Deterioration Sharareh Rostam Niakan Kalhori, Thomas Deserno
16:30 - 18:00	Collaborative Learning Using Escape Designs and Pedagogies. A needs analysis protocol Fivos Efstratios Papamalis, Panagiotis Antoniou, Ioannis Poulourtzidis, Maria Nikolaidou, Terence Alan Poulton, Panagiotis Bamidis	Artificial intelligence: on the way to doctor's trust Michael Shifrin, Anton Khavtorin, Gleb Danilov
	Discovering Association Rules in Antimicrobial Resistance in Intensive Care Unit Aikaterini Sakagianni, Georgios Feretzakis, Dimitris Kalles, Evangelos Loupelis, Zoi Rakopoulou, Ilias Dalainas, Georgios Fildisis	Complexity and Health Technology Safety Elizabeth Borycki, Amr Farghali, Andre Kushniruk
	Chances and Risks of Using Robotic Assistance Systems in Early Neurological Rehabilitation: A Qualitative Analysis Ann-Kathrin Waibel, Felix Holl, Walter Swoboda, Marina Fotteler	Predicting the Length of Stay in Neurosurgery with RuGPT-3 Language Model Gleb Danilov, Konstantin Kotik, Elena Shevchenko, Dmitriy Usachev, Michael Shifrin, Yulia Strunina, Tatiana Tsukanova, Timur Ishankulov, Vasiliiy Lukshin, Alexander Potapov
	Erechtheion	
	Keynote 3	
18:00 - 18:45	Professor Theodoros N. Arvanitis	
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 18	Session 19
	<i>Chair:</i>	<i>Chair:</i>
	Cluster Analysis assessment in proposing a surgical technique for benign prostatic enlargement Lazaros Tzelves, Georgios Feretzakis, Dimitris Kalles, Ioannis Manolitsis, Stamatis Katsimperis, Antonis Valachis, Athanasios Anastasiou, Dimitrios Koutsouris, Stavroula Kofopoulou, Vassilios Verykios, Andreas Skolarikos, Ioannis Varkarakis	A Machine Learning Solution to Predict Elective Orthopedic Surgery Case Duration Divya Sahadev, Thomas Lovegrove-Bacon, Holger Kunz
	Augmenting the doctor of the 21st century with patient-centered communication skill-sets: the FOR21 project Maria Nikolaidou, Anastasia Rodina-Theocharaki, Emmanouil Smyrnakis, Panagiotis Bamidis	Video Recordings of Interactions Line Lundvoll Warth
	Web Quality Assurance of Information in Healthcare Maria Tsirintani	Mental Health Teleconsultation Patterns on the Most Popular mHealth Platforms in Indonesia Azzahra Putri, Farrel A Marsetyo, Umar S A Atmaja, Anis Fuad
	A Formal Model for the FAIR4Health Information Architecture 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	Integration of Biobanking architecture with Genomics data: Genomics Integrated Biobanking Ontology (GIBO) Nitya Singh, Naomi Braun, William Hogan, Mathias Brochhausen
	Electronic Patient Reported Outcomes for Miscarriage Research in Tommy's Net Omar Khan, Shramika Gour, Sarah Lim Choi Keung, Natalie Morris, Rebecca Shields, Siobhan Quenby, Danai B. Dimakou, Oonagh Pickering, Jennifer Tamblyn, Adam Devall, Arri Coomarasamy, Danielle K. Thornton, Alison Perry, Theodoros N. Arvanitis	Effect of Hydroxychloroquine on Influenza Prevention Xingyue Huo, MSPH, Joseph Finkelstein
	Using Association rules in Antimicrobial Resistance in stone disease patients Ioannis Manolitsis, Georgios Feretzakis, Lazaros Tzelves, Dimitris Kalles, Evangelos Loupelis, Stamatis Katsimperis, Thanos Kosmidis, Athanasios Anastasiou, Dimitrios Koutsouris, Stavroula Kofopoulou, Vassilios Verykios, Andreas Skolarikos, Ioannis Varkarakis	A Hand Motion Tracker supporting home-based rehabilitation for people with hemiplegia due to stroke Konstantinos Katzis, Pavlina Psychouli Evaluating a competency-based MOOC for paediatric training DESPINA PAPAKONSTANTINO
11:30 - 12:00	Coffee Break	

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EEST	Erechtheion	Aristotelis B
12:00 - 13:00	Session 20	Workshop
	<i>Chair:</i>	<i>Chair: Reinhold Haux</i>
	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	Title: 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	
	Investigating Diabetes Mellitus Impact on Various Aspects Of Patients' Quality Of Life Ifigeneia Vasiliki Kontoteza, Aggeliki Dragamestianou, Petros Galanis, Olga Siskou, Athanasia Papazafeiropoulou, Olympia Konstantakopoulou, Parisis Gallos, Iliana Karagkouni, Daphne Kaitelidou	
Investigating Diabetes Mellitus Patients' Experiences for Self Monitoring Blood Glucose Methods Aggeliki Dragamestianou, Ifigeneia Vasiliki Kontoteza, Olga Siskou, Petros Galanis, Athanasia Papazafeiropoulou, Olympia Konstantakopoulou, Parisis Gallos, Iliana Karagkouni, Daphne Kaitelidou		
	Keynote 4	
13:15 - 14:00	Professor Sabine Koch <i>Title: TBD</i>	
14:00 - 15:00	Lunch Break	

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EEST	Erechtheion	Aristotelis B
15:00 - 15:45	Workshop/Demonstration	Workshop
	<i>Chair: TBD</i>	<i>Chair: Ognjanovic I</i>
	Title: MyPal Platform – Fostering Palliative Care for Cancer Patients via Electronic Patient Reported Outcomes (ePROs)	Title: Development of innovations and entrepreneurship in health technology: how to support and attract?
EEST	Erechtheion	Aristotelis B
15:45 - 17:15	Session 21	Session 22
	<i>Chair: TBD</i>	<i>Chair: TBD</i>
	CAREPATH: developing digital integrated care solutions for multimorbid patients with dementia Omid Pournik, Bilal Ahmad, Sarah Lim Choi Keung, Omar Khan, George Despotou, Angelo Consoli, Jaouhar Ayadi, Luca Gilardi, Gökce 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 Randeva, Lionello Ferrazzini, Theodoros N. Arvanitis	Investigating the Impact of the Covid - 19 Pandemic on the Economy and the Corresponding Entrepreneurship Support Measures in Europe Anastasia Mpampatsikou, Daphne Kaitelidou, Petros Galanis, Angeliki Liarigkovinou, Olympia Konstantakopoulou, Olga Siskou
	Deep Time Growing Neural Network vs Convolutional Neural Network for Intelligent Phonocardiography Arash Gharehbaghi, Ankica Babic	A Bibliometric Analysis of Virtual Reality-Aided Vision Therapy Qasim Ali, Ilona Heldal, Carsten Helgesen
	The transition to distance learning in the era of Covid19 Pandemic: The perceptions and experiences of nursing students Andrianna Magdalinou, Joseph Laskos, Marianna Isaakidou, John Mantas	Using an Extended Technology Acceptance Model to Evaluate Digital Health Services Diana Akritidi, Paris Gallos, Vassiliki Koufi, Flora Malamateniou
	Exploratory Clustering for Emergency Department Patients Georgios Feretzakis, Aikaterini Sakagianni, Dimitris Kalles, Evangelos Loupelis, Lazaros Tzelvas, Vasileios Panteris, Rea Chatzikyriakou, Nikolaos Trakas, Stavroula Kolokytha, Polyxeni Batiani, Zoi Rakopoulou, Aikaterini Tika, Stavroula Petropoulou, Ilias Dalainas, Vasileios Kaldis	A comparison of Convolutional Neural Networks and traditional feature-based Classification applied to Leukaemia Image Analysis Marinela Branescu, Stephen Swift, Allan Tuckera
	Application of Machine Learning to Examine Social Service Needs Among Hispanic Family Caregivers of Persons with Dementia 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	Using mHealth Technologies to Promote Public Health and Well-Being in Urban Areas with Blue-Green Solutions Parisis 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
	Customized and Automated Machine learning-based Models for Diabetes Type 2 Classification Farida Mohsen, Md. Rafiul Biswas, Hazrat Ali, Tanvir Alam, Mowafa Househ, Zubair Shah	Intelligent Pervasive Monitoring Solution of COVID-19 Patients Christos Panagopoulos, Andreas Menychtas, Edison Jahaj, Alice Georgia Vassiliou, Paris Gallos, Ioanna Dimopoulou, Anastasia Kotanidou, Ilias Maglogiannis
17:15 - 17:30	Coffee Break	

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EEST	Erechtheion	Aristotelis B
	Session 23	Session 24
	<i>Chair:</i>	<i>Chair:</i>
17:30 - 18:45	A Method for the Classification of Digital Health Architectures as Medical Devices a Digital Health Research Perspective George Despotou, Stuart Harrison, Theodoros N. Arvanitis	Tracing the paradigm shift on relationships through eHealth components in health care Julia Krumme, Linda Wienands, László Kovács
	Serious gaming and artificial intelligence in rehabilitation of rheumatoid arthritis Gabriela Varga, Lacramioara Stoicu-Tivadar, Stelian Nicola	Overview of existing tools for extracting health and fitness data from mHealth apps Mohamed Khaled, Mahdi Sareban, Markus Kreuzthaler, Stefan Schulz, Rada Hussein
		PeterPandemic: A Serious Game for Pandemic Management Maximilian Karthan, Annika Kreuder, Ulrich Frick, Rüdiger Pryss, Johannes Schobel
	A Conceptual Framework for Fetus Head Analysis Based on Ultrasound Images Mahmood Alzubaidi, Marco Agus, Uzair Shah, Michel Makhlof, Khalid Alyafei, Ali Zaidi, Mowafa Househ	Need of Equity in Virtual Mental Health in Canada in The Times of COVID-19 Bushra Kundi, Christo El Morr
		Treatment Prediction in the ICU Setting using a Partitioned, Sequential Deep Time Series Analysis Michael Shapiro, Yuval Shahar
	Overcoming Major Barriers to Build Efficient Decision Support Systems in Pharmacovigilance Kory KREIMEYER, Jonathan SPIKER, Taxiarchis BOTSIS	Open Source Web Application: An application on Health Tourism in Greece Eleanna Tsoutsani, Emmanouil Zoulias, Paris Gallos, John Mantas
		An OHDSI ATLAS extension to support feasibility requests in a research network Ines Reinecke, Mirko Gruhl, Martin Pinnau, Fatma-Betuel Altun, Michael Folz, Michele Zoch, Franziska Bathelt, Martin Sedlmayr
Artificial Intelligence solutions to detect fraud in healthcare settings: A scoping review Mohammad Sharique IQBAL, Alaa ABD-ALRAZAQ and Mowafa HOUSEH	Evaluation of the Discrimination Ability of the Decision Rule Allowing to Predict the Probability of Death in Oncosurgical Patients with Comorbid Pathology	
	2D Anatomical structure for COVID-19 medical images Stelios Zimeras, Marianna Diomidous	
EEST	Erechtheion	
18:45 - 19:00	Closing Ceremony Best Paper, Best Poster, and Best Student Paper Awards John Mantas and Arie Hasman	

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	Posters Presentations
	Chairs: TBD
	Point-of-care speech-recognition based mHealth solution to facilitate physicians' daily work Fabian Kerwagen, Konrad F. Fuchs, Melanie Ullrich, Andres Schulze, Andreas Kunz, Georg Fette, Maximilian Ertl
	Virtual Presentation
	Beyond the Brain: MIDS Extends BIDS to Multiple Modalities and Anatomical Regions 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, María de la Iglesia-Vayá
	Ethical, legal and social implications in a in a nursing field study in Bavaria Ann-Kathrin Waibel, Nadine Seifert, Walter Swoboda
Inference time of a CamemBERT deep learning model for sentiment analysis of COVID vaccines on Twitter Guillaume Guerdoux, Théophile Tiffet, Cédric Bousquet	
BeWell@Digital - Supporting young people's mental health in Western Balkans with e-solutions Katja Čič, Bojana TOSIC	