

**20<sup>th</sup> International Conference e-Society 2022**  
**15<sup>th</sup> IADIS International Conference Information Systems 2022**  
**17<sup>th</sup> International Conference on Mobile Learning 2021**

**CONFERENCE PROGRAM**

**IMPORTANT NOTICE:** listed times are in GMT+0 (Lisbon Time), you can check your timezone at <https://greenwichmeantime.com/time-zone/gmt-plus-0/> (you can use the provided URL to insert your location and see your time in relation to GMT+0).

**Saturday 12<sup>th</sup>, March 2022**

**09:35 Session O – Opening Session**

**OPENING SESSION**

*Profs. Philip Powell, Miguel Baptista Nunes, Inmaculada Arnedillo Sánchez and Pedro Isaías*

**09:45-10:45 Session KL – Keynote Presentation**

**“THE CHALLENGES OF ARTIFICIAL INTELLIGENCE”**

*Dr. Nick Hajli, Associate Professor, Swansea University, UK*

**10:45-12:45 Session FP 12.1**

**IS Research // Design Research and the Sciences of the Artificial in IS**

*Chair: Philip Powell*

**A FRAMEWORK FOR THE APPLICATION OF MACHINE LEARNING IN IS LITERATURE REVIEWS (F063)**

*Yusuf Bozkurt, Reiner Braun and Alexander Rossmann*

**LAYOUT-DRIVEN WEBPAGE READING (F122)**

*Koki Tsumura, Junko Shirogane, Hajime Iwata and Yoshiaki Fukazawa*

**ANALYSIS AND PREDICTION OF COMPUTER INDUSTRY TALENT DEMAND BASED ON MACHINE LEARNING (F056)**

*Yu Han and Haiyi Zhang*

**DESIGNING A MEDICAL EXPERT SYSTEM BASED ON FUZZY LOGIC (F120)**

*Rustam Burnashev, Arslan Enikeev, Adelya Enikeeva and Ilyuza Fakhrtdinova*

**10:50-12:30 Session FSP 12.2**

**Innovative mLearning approaches // Enabling mLearning technologies, applications and uses**

*Chair: Lúcia Pombo*

**EARNING COMMUNICATION WITH AUTISTIC PEOPLE WITH A MOBILE SERIOUS ROLE-PLAYING GAME (F069)**

*Dixit Bharatkumar Patel, Xavian Ogletree and Yong Pei*

**LEVERAGING SMARTPHONE AFFORDANCES FOR EFL EMERGENCY REMOTE TEACHING (F029)**

*Peter Ilic*

**E-LEARNING COURSE OF SOFTWARE FOR TEXTILE DESIGN (S054)**

*Ion Razvan Radulescu, Antonio Dinis, Benny Malengier, Andrej Cupar, Mirela Blaga and Radek Polansky*

**CHILD'S PLAY: TEACHING YOUNG CHILDREN HEBREW MORPHOLOGY USING E-LEARNING TECHNOLOGIES (S060)**

*Nofar Rimon, Iris Melamed Gorodesky, Goren Gordon and Einat Gonen*

**12:45-14:00 Lunch Break**

**14:00-16:20 Session FSP 12.3**

**IS in Practice, Technology Infrastructures and Organisational Processes**

**Chair: Tiko Iyamu**

**MATURITY AND QUALITY LEVELS IN THE USE OF INTEROPERABLE INFORMATION SYSTEMS FOR ECONOMIC REACTIVATION OF TOURISM-HOSPITALITY-GASTRONOMY SECTOR POST-PANDEMIC. CASE STUDY: ECUADOR (F020)**  
*Rubi Rojas, Manuel Tupia and Mariuxi Bruzza*

**DATA-DRIVEN TRANSFORMATION JOURNEY THROUGH DATA DEMOCRACY: A CASE STUDY OF A SWEDISH BANK (F049)**  
*Irsa Amerian and Fisman Dalipi*

**NEW INSIGHT OF DATA MINING-BASED FRAUD DETECTION IN FINANCIAL IT-SYSTEMS (F074)**  
*Salah Baïna and Ayoub Rih*

**EVALUATING THE PERFORMANCE OF A CARE PROCESS BASED ON SIMULATION: MATERNITY CASE (F087)**  
*Thouraya Menyaoui, Nesrine Missaoui and Sonia Ayachi Ghannouchi*

**FOSTER TRUST IN INDUSTRIAL QUALITY CONTROL BY INTRODUCING SMART CONTRACTS (S139)**  
*Markus Nöbauer*

**14:30-16:00 Session FP 12.4**

**eBusiness / eCommerce**

**Chair: Darius Zumstein**

**DEVELOPMENT OF E-COMMERCE IN TIMES OF THE CORONA CRISIS (F070)**  
*Darius Zumstein, Carmen Oswald and Claudia Brauer*

**AN ONLINE EXPERIMENT ON THE STEREOTYPE CONTENT MODEL (SCM) AND CHATBOTS – DOES SWAPPING THE PICTURE MAKE A DIFFERENCE? (F039)**  
*Roger Seiler and Sonja Wüest*

**TRUST AND CYBERSICKNESS IN VR-MARKETING – INVESTIGATING IPD AND CYBERSICKNESS, AND THEIR EFFECTS ON TRUST, CUSTOMER VALUE, NPS, CROSS- AND UP-SELLING (F038)**  
*Roger Seiler, Thierry Brodmann and Thomas Keller*

**16:00-16:15 Break**

**16:30-17:35 Session FSRP 12.5**

**Technology and Society**

**Chair: Dalia Gallico**

**USABILITY AND USER EXPERIENCE IN OPEN COMMUNITY WEB PORTALS: A CASE STUDY IN SMART PORTS DOMAIN (F043)**  
*Shabnam Kazemi, Deniz Cetinkaya, Gernot Liebchen and Reza Sahandi*

**HEALTHY JOB. WORK AND HEALTH JUST A CLICK AWAY (S145)**  
*Dalia Gallico*

**CYBERSTALKING IN INDIA: CHALLENGES ON THE SOCIAL SIDE AND THE UNDERLYING CONTRADICTIONS (R119)**  
*Ameema Miftha, Marc Conrad and Marcia Gibson*

**16:15-17:35 Session FSP 12.6**

**eHealth**

**Chair: Myriam Le Goff-pronost**

**5 YEARS OF EARLY MANAGEMENT OF SKIN CANCER BY TELE-DERMATOLOGY: WHAT HAVE WE LEARNED FROM REAL-WORLD DATA? (F102)**  
*Myriam Le Goff-Pronost, Imad El Badisy, Quentin Dejonghe, Caroline De Pauw, Tanguy Lagorsse, Bastien Affeltranger and Estelle Borne*

**CLASSIFICATION OF METHODS AND ALGORITHMS FOR DETECTION OF FALLS IN OLDER ADULTS (F054)**  
*Manuel Erazo-Valadez, Javier Ortiz-Hernandez, Angel Israel Daza-Castillo, Juan Antonio Miguel-Ruiz, Alicia Martínez-Rebollar and Yasmin Hernandez*

**RECOGNITION OF ARM POSITIONS OF DEMENTIA PATIENTS VIA SMARTWATCHES USING SUPERVISED LEARNING (S080)**  
*Sergio Staab and Ludger Martin*

**17:35-18:20 Session ST – Special Talk**

**ARTIFICIAL INTELLIGENCE APP TO IMPROVE ESL LEARNING**  
*Wilson Ramon Hernandez Parraci, Ph.D. Student, Northern Illinois University, USA*

**Sunday 13<sup>th</sup>, March 2022**

**08:40-10:30 Session FSP 13.1**

**IS Design, Development and Management Issues and Methodologies**

**Chair: Tiko Iyamu**

**CHALLENGES AND MITIGATION STRATEGIES IN THE USE OF THE SEMI-STRUCTURED INTERVIEW TECHNIQUE (F016)**

*Tiko Iyamu and Maria Mutudi*

**DIGITAL PLATFORMS FOR THE CREATIVES TOWARDS A TAXONOMY (F112)**

*Pinelopi Stavrianidi and Anastasia Constantelou*

**CLOSENESS ANALYSIS OF STUDENTS' WORD-USAGE LOCATED IN A HIGH-DIMENSIONAL SPACE (F106)**

*Toshiro Minami and Yoko Ohura*

**ANALYSIS OF A DISTRIBUTED HYBRID MAS APPROACH FOR INFORMATION SYSTEM DEVELOPMENT (S084)**

*Agnese Salutari and Laura Tarantino*

**08:20-10:30 Session FSP 13.2**

**eLearning**

**Chair: Wilfred W.f. Lau**

**REDUCING FOOD WASTE WITH VIRTUAL REALITY (VR) TRAINING – A PROTOTYPE AND A/B-TEST IN AN ONLINE EXPERIMENT (F035)**

*Roger Seiler, Daniel Fankhauser and Thomas Keller*

**OBS SHARE AND MULTIVIEW: TWO METHODS FOR SHARING STUDENT WORK IN DISTANT TEACHING (S089)**

*Jun Iio*

**CITIZEN IDENTIFICATION: CONCEPTS, PRINCIPLES AND OPINIONS – THE CASE OF MOZAMBIQUE (S025)**

*Paulo Maculube and Luis Amaral*

**PROPOSAL FOR A MODEL FOR DETECTING FAKE NEWS ON SOCIAL MEDIA IN MEXICO (F069)**

*Carlos Augusto Jiménez Zarate and Leticia Amalia Neira Tovar*

**INSTRUCTOR TEACHING EXPERIENCE WITH ONLINE DISTANCE LEARNING FOR PRACTICAL DESIGN COURSES AFTER COVID-19 (F108)**

*Miha Kim and Dong-Yeong Lee*

**10:30-10:45 Break**

**10:45-12:35 Session FSP 13.3**

**Information Systems**

**Chair: Jun Iio**

**METHOD FOR ISOLATING THE PATIENT AND IOT ABNORMALITY USING A BAYESIAN NETWORK (F031)**

*Ryoichi Sasaki, Akinori Ueno and Jigang Liu*

**ARTIFICIAL INTELLIGENCE FOR NEXT GENERATION ENERGY SERVICES ACROSS EUROPE – THE I-ENERGY PROJECT (F147)**

*Evangelos Karakolis, Sotiris Pelekis, Spiros Mouzakitis, Ourania Markaki, Katerina Papapostolou, Giorgos Korbakis and John Psarras*

**CRITERIA FOR THE ANALYSIS OF SERIOUS GAMES INTERFACES IN VIRTUAL REALITY (F040)**

*André Salomão, Victor Nassar, Milton Vieira and Berenice Santos Gonçalves*

**A CONCEPTUAL MODEL FOR REPRESENTATION (TRANSFER) PROCESSES (S144)**

*Tobias Huhmann and Chantal Müller*

**10:45-13:05 Session FSP 13.4**

**Technology and Society**

**Chair: Hiroshi Furukawa**

**PARENTS' VIEWS ON RISKY ONLINE BEHAVIORS AND POSITIVE TECHNOLOGICAL DEVELOPMENT AMONG HONG KONG EARLY ADOLESCENTS (F124)**

*Wilfred W.F. Lau, Morris S.Y. Jong, Gustavo S. Mesch and Tianna T.Y. Leung*

**SURVEYING PARENTAL MEDIATION AND DIGITAL LITERACY. WERE PARENTS READY DURING COVID-19? (F057)**

*Evangelia Daskalaki, Costas Panagiotakis, Harris Papadakis and Paraskevi Fragopoulou*

**REFINEMENT OF THE QUANTITATIVE MODELS TO ESTIMATE USER'S FEAR IN EVACUATION ROUTE PLANNING: INTRODUCTION OF USER ATTRIBUTES AND NONLINEARIZATION OF THE MODEL (F099)**

*Hiroshi Furukawa and Ryota Koshimizu*

**ENHANCEMENT OF AI-BASED IMPLEMENTATION USING A ONE-STAGE DETECTOR ALGORITHM FOR THE DETECTION OF COUNTERFEIT PRODUCTS (F122)**

*Eduard Daoud, Nabil Khalil and Martin Gaedke*

**INTEGRATION OF QUICK RESPONSE (QR) CODE FOR AGRICULTURAL PRODUCT TARIFF COLLECTION AND VIRTUAL PAYMENT TRANSACTIONS (S058)**

*Richard Myrick T. Arellaga, Jermine V. Dacanay, Rhealyn B. Valenzuela, Melvin F. Ellorin and Jose Alberto D. Pataweg*

**13:05-14:00 Lunch Break**

**14:00-15:00 Session FP 13.5**

**IS Design, Development and Management Issues and Methodologies**

**Chair: Narasimha Rao Vajjhala**

**MODELING THE SCALE OF SATISFACTION AND THE VIRTUAL PLATFORM APPLIED TO THE EXPERIENCE OF SPECIALISTS AND USERS OF HEALTH SERVICES (F050)**

*Galba Freire Moita, Zulmira Hartz and Galba Freire Moita Júnior*

**A GRAMMAR FOR INFORMATION SYSTEMS AND TECHNOLOGY COMPETENCIES (F045)**

*Fábio Longo De Moura and Filipe De Sá-Soares*

**14:00-15:00 Session FP 13.6**

**eLearning**

**Chair: Evangelos Karakolis**

**STUDYING GAMIFICATION AS A TOOL FOR COLLECTING DATA (F074)**

*André Salomão, Bruno Dal Ponte Pavei da Silva, Júlio Monteiro Teixeira, Nicolas Canale Romeiro and Milton Luiz Horn Vieira*

**UNDERSTANDINGS AND PERSPECTIVES ON BLENDED LEARNING IN A BRAZILIAN PRIVATE UNIVERSITY IN THE CONTEXT OF TRANSFORMATIONS (F030)**

*Katiúscia Akemi Nasu Nogueira and Maria Cristina Lima Paniago*

**15:00-16:00 Session KL – Keynote Presentation**

**MOVING FORWARD IN THE DIGITAL SOCIETY: A CRITICAL PERSPECTIVE ON THE ROLE OF INNOVATIVE TECHNOLOGIES AND TRENDS**

*Prof. Pedro Isaias, Information Systems & Technology Management School, The University of New South Wales, Australia*

**16:00-16:15 Break**

**16:15-18:05 Session FSP 13.7**

**The centrality of IS and IT in Organisational Processes // IS Management**

**Chair: Galba Moita**

**CLINICAL PATHWAY – TO FOLLOW OR NOT TO FOLLOW (F093)**

*Päivi Ovaskainen, Jouni Alin, Seija Arve, Reima Suomi and Pirkko Nykänen*

**AN OBJECTIVE-BASED APPROACH FOR DEFINING AND SELECTING THE MOST RELEVANT KPIS FOR MEASURING BUSINESS PROCESS PERFORMANCE (F086)**

*Amina Haouas, Emna Ammar Elhadjamor and Sonia Ayachi Ghannouchi*

**DATA PROTECTION AND PRIVACY DETERMINANTS OF E-GOVERNMENT ADOPTION IN NIGERIA (S041)**

*Joshua Chukwu, Marc Conrad and Tess Crosbie*

**EXPLORING STRATEGIC ALIGNMENT OF BUSINESS AND INFORMATION SYSTEMS/TECHNOLOGY STRATEGIES USING A MIDDLE MANAGEMENT PERSPECTIVE (D142)**

*Thokozani Kachale*

**16:15-17:40 Session FRSP 13.8**

**Tools, technologies and platforms for mLearning // Other**

**Chair: Ion Razvan Radulescu**

**GRADUATE EMPLOYABILITY SKILLS DEVELOPMENT THROUGH REFLECTION AND SELF-ASSESSMENT USING A MOBILE APP (F088)**

*Maria Iqbal, Lars Jørgen Fredheim, Hege Annette Olstad, Aisha Abbas and Sobah Abbas Petersen*

**THE SPOC+ PLATFORM: EVALUATION AND PERSPECTIVES (S068)**

*Hamed Asgari and Georges Antoniadis*

**TMOOC IN THE AGE OF MLEARNING. A CASE STUDY OF ECO DIGITAL LEARNING (R051)**

*Sara Osuna-Acedo, Roberto Feltrero and Eva Bunbury*

**IDEAL LEARNING ENVIRONMENT: HOW TO BUILD IT WITH ARTIFICIAL INTELLIGENCE (S074)**

*Elisabetta Crescio*

**Monday 14<sup>th</sup>, March 2022**

**08:40-10:30 Session FSP 14.1**

**The centrality of IS and IT in Organisational Processes // Information Management**

**Chair: Reima Suomi**

**DIGITAL TRANSFORMATION: COMPLEXITY AND NEED FOR A FRAMEWORK FOR ITS MANAGEMENT (F079)**

*Omar Gaidi and Salah Baïna*

**PYRAMID MODEL – CONCEPTUALIZING AN ORGANIZATIONAL CAPABILITY TO DESIGN IT INVESTMENTS (F098)**

*Mikko H. Hirvonen*

**RESEARCH ON THE WILLINGNESS OF USERS' PRIVACY CONCERNS TO USE EPIDEMIC PREVENTION TECHNOLOGY UNDER THE BACKGROUND OF THE NEW CORONAVIRUS EPIDEMIC (F109)**

*Chensang Ye, Jinjing Yang, Miaomiao Zheng and Cong Cao*

**FACTORS AFFECTING TREND INTENTION IN YOUTUBE VIDEOS (S101)**

*Endrit Ajrulla, Marika Apostolova and Lejla Abazi-Bexheti*

**09:10-10:30 Session FSRP 14.2**

**eGovernment /eGovernance // Citizen Journalism**

**Chair: Darius Zumstein**

**DEPICTING U.S.-CHINA DISPUTES ON TECH GIANTS THROUGH SOCIAL MEDIA: AN ATTEMPT OF COMPUTATIONAL POLITICAL COMMUNICATION (F066)**

*Yekai Xu and Mingqi Xie*

**ROLE OF ONLINE PLATFORMS IN SUSTAINING THE LOCAL MEDIA (R097)**

*Bolormaa Battsogt*

**PUBLIC E-ADMINISTRATION: UNDERSTANDING THE PERCEPTION OF TAXES BY GENERATION Y AND GENERATION Z (S137)**

*Tereza Zichová*

**TEEN SOCIAL MEDIA USE DURING COVID-19: PARENT PERCEPTIONS AND OVERSIGHT (F143)**

*Vanessa P. Dennen, Hui Shi, Stacey A. Rutledge, Lauren M. Bagdy, Daeun Jung, Stephen Bunn, Casey Cargill, Catherine Cosgrove and Amber Hedquist*

**10:30-10:45 Break**

**10:45-11:45 Session FP 14.3**

**IS Design, Development and Management Issues and Methodologies**

**Chair: Toshiro Minami**

**THE INFLUENCE OF NATIONAL CULTURE DIMENSIONS ON AGILE IMPLEMENTATIONS IN THE SOUTH AFRICAN SOFTWARE DEVELOPMENT CONTEXT (F148)**

*Kirwin B. Matthews and Maureen C. Tanner*

**IMPACT OF INDIVIDUAL DECISION-MAKING FACTORS ON PROJECT FAILURE (F119)**

*Narasimha Rao Vajjhala and Kenneth David Strang*

**10:45-12:35 Session FSP 14.4**

**mLearning in and across formal and informal settings // Other**

**Chair: Lúcia Pombo**

**DE-POLARIZING BY COLORING, REASONING BY CURATING (S046)**

*Tsafrir Goldberg, Alan Wecker, Tal Tabashi, Joel Lanir and Iris Reinhartz-Berger*

**MOBILE LEARNING GAMES WITH AUGMENTED REALITY IN A PARK - SYSTEM FOR CLASSIFICATION OF QUESTIONS FOR QUIZ GAME CREATION (F020)**

*Lúcia Pombo and Margarida M. Marques*

**DIGITAL SIMULATION GAMES FOR MEDIA EDUCATION. A DIDACTIC SCENARIO (S037)**

*Jasmin Bastian, Christian Toth and Christina Wolf*

**THE INFLUENCE OF MOTIVATION AND SELF-REGULATION ABILITY ON STUDENTS' ONLINE LEARNING SATISFACTION (S044)**

*Zixian Yu, Hui Zhang, Zhizi Zheng, Yuqin Yang and Qi Li*

**DESIGNING A READING COMPREHENSION APP USING DESIGN-BASED RESEARCH FRAMEWORK (S022)**

*Heydy Robles Noriega and Karen Villalba Ramos*

**12:35 Best Paper Awards Ceremony and Closing Session**

*Profs. Philip Powell, Miguel Baptista Nunes, Inmaculada Arnedillo Sánchez, Piet Kommers and Pedro Isaías*