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KEY=ON - TATE KENZIE

TRANSFORMING LEARNING WITH MEANINGFUL TECHNOLOGIES

14TH EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, EC-TEL 2019, DELFT, THE NETHERLANDS, SEPTEMBER 16–19, 2019, PROCEEDINGS

Springer Nature This book constitutes the proceedings of the 14th European Conference on Technology Enhanced Learning, EC-TEL 2019, held in Delft, The Netherlands, in September 2019. The 41 research papers and 50 demo and poster papers presented in this volume were carefully reviewed and selected from 149 submissions. The contributions reflect the debate around the role of and challenges for cutting-edge 21st century meaningful technologies and advances such as artificial intelligence and robots, augmented reality and ubiquitous computing technologies and at the same time connecting them to different pedagogical approaches, types of learning settings, and application domains that can benefit from such technologies.

ECTEL 2019, EC-TEL PRACTIONEL PROCEEDINGS

14TH EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, SEPTEMBER 16-19, 2019, DELFT, NETHERLANDS

ADDRESSING GLOBAL CHALLENGES AND QUALITY EDUCATION

15TH EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, EC-TEL 2020, HEIDELBERG, GERMANY, SEPTEMBER 14–18, 2020, PROCEEDINGS

Springer Nature This book constitutes the proceedings of the 15th European Conference on Technology Enhanced Learning, EC-TEL 2020, held in Heidelberg, Germany, in September 2020. The 24 research papers and 20 demo and 5 poster papers presented in this volume were carefully reviewed and selected from 91 submissions. The European Conference on Technology-Enhance Learning, which celebrates its 15th anniversary this year, is committed to address global challenges and quality education. The papers deal with the Sustainable Development Goals, particularly SDG 4 and SDG 10, to help to reduce the existing gaps and inequalities between countries and regions from around the world in terms of inclusiveness, equity, access, and quality of education. The chapters: "Designing an Online Self-Assessment for Informed Study Decisions: The User Perspective"; "Living with Learning Difficulties: Two Case Studies Exploring the Relationship Between Emotion and Performance in Students With Learning Difficulties"; "Applying Instructional Design Principles on Augmented Reality Cards for Computer Science Education"; and "Teaching Simulation Literacy With Evacuations - Concept, Technology, and Material for a Novel Approach" are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. Due to the Corona pandemic EC-TEL 2020 was held as an virtual event.

ECGBL 2020 14TH EUROPEAN CONFERENCE ON GAME-BASED LEARNING

Academic Conferences limited These proceedings represent the work of contributors to the 14th European Conference on Games Based Learning (ECGBL 2020), hosted by The University of Brighton on 24-25 September 2020. The Conference Chair is Panagiotis Fotaris and the Programme Chairs are Dr Katie Piatt and Dr Cate Grundy, all from University of Brighton, UK.

ECEL2015-14TH EUROPEAN CONFERENCE ON E-LEARNING,

ECEL2015

Academic Conferences and publishing limited These Proceedings represent the work of contributors to the 14th European Conference on e-Learning, ECEL 2015, hosted this year by the University of Hertfordshire, Hatfield, UK on 29-30 October 2015. The Conference and Programme Co-Chairs are Pro-fessor Amanda Jefferies and Dr Marija Cubric, both from the University of Hertfordshire. The conference will be opened with a keynote address by Professor Patrick McAndrew, Director, Institute of Educational Tech-nology, Open University, UK with a talk on "Innovating for learning: designing for the future of education." On the second day the keynote will be delivered by Professor John Traxler, University of Wolverhampton, UK on the subject of "Mobile Learning - No Longer Just e-Learning with Mobiles." ECEL provides a valuable platform for individuals to present their research findings, display their work in progress and discuss conceptual advances in many different branches of e-Learning. At the same time, it provides an important opportunity for members of the EL community to come together with peers, share knowledge and exchange ideas. With an initial submission of 169 abstracts, after the double blind, peer review process there are 86 academic papers,16 Phd Papers, 5 Work in Progress papers and 1 non academic papers in these Conference Proceedings. These papers reflect the truly global nature of research in the area with contributions from Algeria, Australia, Austria, Belgium, Botswana, Canada, Chile, Cov-entry, Czech Republic, Denmark, Egypt, England, Estonia, France, Germany, Ireland, Japan, Kazakhstan, New Zealand, Nigeria, Norway, Oman, Portugal, Republic of Kazakhstan, Romania, Saudi Arabia, Scotland, Singapore, South Africa, Sweden, the Czech Republic, Turkey, Uganda, UK, United Arab Emirates, UK and USA, Zimbabwe. A selection of papers - those agreed by a panel of reviewers and the editor will be published in a special conference edition of the EJEL (Electronic Journal of e-Learning www.ejel.org).

LEARNING AND COLLABORATION TECHNOLOGIES. HUMAN AND TECHNOLOGY ECOSYSTEMS

7TH INTERNATIONAL CONFERENCE, LCT 2020, HELD AS PART OF THE 22ND HCI INTERNATIONAL CONFERENCE, HCII 2020, COPENHAGEN, DENMARK, JULY 19–24, 2020, PROCEEDINGS, PART II

Springer Nature This two-volume set LNCS 12205 and LNCS 12206 constitutes the proceedings of the 7th International Conference on Learning and Collaboration Technologies, LCT 2020, held as part of the 22nd International Conference, HCI International 2020, which took place in Copenhagen, Denmark, in July 2020. The total of 1439 papers and 238 posters included in the 37 HCII 2020 proceedings volumes was carefully reviewed and selected from 6326 submissions. The papers in this volume are organized in the following topical sections: communication and conversation in learning; cognition, emotions and learning; games and gamification in learning; VR, robot and IoT in learning; and collaboration technology and collaborative learning. As a result of the Danish Government's announcement, dated April 21, 2020, to ban all large events (above 500 participants) until September 1, 2020, the HCII 2020 conference was held virtually.

METHODOLOGIES AND INTELLIGENT SYSTEMS FOR TECHNOLOGY ENHANCED LEARNING, 10TH INTERNATIONAL CONFERENCE

Springer Nature This book intends to bring together researchers and developers from industry, the education field, and the academic world to report on the latest scientific research, technical advances, and methodologies. The 10th International Conference in Methodologies and Intelligent Systems for Technology Enhanced Learning is hosted by the University of L'Aquila and is going to be held in L'Aquila (Italy). Initially planned on the 17th to the 19th of June 2020, it was postponed to the 7th to the 9th of October 2020, due to the COVID-19 outbreak. The 10th edition of this conference and its related workshops expand the topics of the evidence-based TEL workshops series in order to provide an open forum for discussing intelligent systems for TEL, their roots in novel learning theories, empirical methodologies for their design or evaluation, stand-alone solutions, or web-based ones. This bridge has been realized also thanks to the sponsor of this edition of MIS4TEL: the Armundia Group https://www.armundia.com, the support from national associations (AEPIA, APPIA, CINI, and EurAI), and organizers (UNIVAQ, UNIROMA1, UNIBZ, UCV, UFSC, USAL, AIR institute, UNC, and UNIBA)

DYNAMICS OF DISASTERS

IMPACT, RISK, RESILIENCE, AND SOLUTIONS

Springer Nature Based on the "Fourth International Conference on Dynamics of Disasters" (Kalamata, Greece, July 2019), this volume includes contributions from experts who share their latest discoveries on natural and unnatural disasters. Authors provide overviews of the tactical points involved in disaster relief, outlines of hurdles from mitigation and preparedness to response and recovery, and uses for mathematical models to describe natural and man-made disasters. Topics covered include economics, optimization, machine learning, government, management, business, humanities, engineering, medicine, mathematics, computer science, behavioral studies, emergency services, and environmental studies will engage readers from a wide variety of fields and backgrounds.

RADICAL SOLUTIONS AND LEARNING ANALYTICS

PERSONALISED LEARNING AND TEACHING THROUGH BIG DATA

Springer Nature Learning Analytics become the key for Personalised Learning and Teaching thanks to the storage, categorisation and smart retrieval of Big Data. Thousands of user data can be tracked online via Learning Management Systems, instant messaging channels, social networks and other ways of communication. Always with the explicit authorisation from the end user, being a student, a teacher, a manager or a persona in a different role, an instructional designer can design a way to produce a practical dashboard that helps him improve that very user's performance, interaction, motivation or just grading. This book provides a thorough approach on how education, as such, from teaching to learning through management, is improved by a smart analysis of available data, making visible and useful behaviours, predictions and patterns that are hinder to the regular eye without the process of massive data.

LIFELONG TECHNOLOGY-ENHANCED LEARNING

13TH EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, EC-TEL 2018, LEEDS, UK, SEPTEMBER 3-5, 2018, PROCEEDINGS

Springer This book constitutes the proceedings of the 13th European Conference on Technology Enhanced Learning, EC-TEL 2018, held in Leeds, UK, in September 2018. The 42 full and short papers, 7 demo papers, and 23 poster papers presented in this volume were carefully reviewed and selected from 142 submissions. This year, the European Conference on Technology-Enhanced Learning (EC-TEL) will engage researchers, practitioners, educational developers, entrepreneurs and policy makers in a joint discussion on how to put science, technology and practice at the service of learning to embrace these challenges on the topic: Lifelong technology enhanced learning: Dealing with the complexity of 21st century challenges. /div Chapter "" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

ADOPTION OF DATA ANALYTICS IN HIGHER EDUCATION LEARNING AND TEACHING

Springer Nature The book aims to advance global knowledge and practice in applying data science to transform higher education learning and teaching to improve personalization, access and effectiveness of education for all. Currently, higher education institutions and involved stakeholders can derive multiple benefits from educational data mining and learning analytics by using different data analytics strategies to produce summative, real-time, and predictive or prescriptive insights and recommendations. Educational data mining refers to the process of extracting useful information out of a large collection of complex educational datasets while learning analytics emphasizes insights and responses to real-time learning processes based on educational information from digital learning environments, administrative systems, and social platforms. This volume provides insight into the emerging paradigms, frameworks, methods and processes of managing change to better facilitate organizational transformation toward implementation of educational data mining and learning analytics. It features current research exploring the (a) theoretical foundation and empirical evidence of the adoption of learning analytics, (b) technological infrastructure and staff capabilities required, as well as (c) case studies that describe current practices and experiences in the use of data analytics in higher education.

COMPUTER SCIENCE – CACIC 2020

26TH ARGENTINE CONGRESS, CACIC 2020, SAN JUSTO, BUENOS AIRES, ARGENTINA, OCTOBER 5–9, 2020, REVISED SELECTED PAPERS

Springer Nature This book constitutes revised selected papers from the 26th Argentine Congress on Computer Science, CACIC 2020, held in San Justo, Buenos Aires, Argentina in October 2020. Due to the COVID-19 pandemic the conference was held in a virtual mode. The 21 full papers and 3 short papers presented in this volume were carefully reviewed and selected from a total of 118 submissions. They were organized in topical sections named: intelligent agents and systems; distributed and parallel processing; computer technology applied to education; graphic computation, images and visualization; software engineering; databases and data mining; hardware architectures, networks, and operating systems; innovation in software systems; signal processing and real-time systems; innovation in computer science education; computer security; and digital governance and smart cities.

HANDBOOK OF RESEARCH ON OPERATIONAL QUALITY ASSURANCE IN HIGHER EDUCATION FOR LIFE-LONG LEARNING

IGI Global Previously, key levers of higher education have seemed to be the learning organization, work-integrated learning for life-long learning, and learner-centered pedagogy. However, funding evolution and the integration of digital tools are changing professional styles and learning behaviors. Nonetheless, the sustainability of higher education requires quality agreement based on ethical, robust, and replicable pedagogical approaches. The Handbook of Research on Operational Quality Assurance in Higher Education for Life-Long Learning is a comprehensive scholarly book that focuses on the evolution of the education framework and job market as well as necessary changes needed in organizations to reply to life-long learning and competency-based training initiatives. Highlighting topics such as digital environment, e-learning, and learning analytics, this book is essential for higher education faculty, managers, deans, professionals, administrators, educators, academicians, researchers, and policymakers.

GAMING ELEMENTS AND EDUCATIONAL DATA ANALYSIS IN THE LEARNING DESIGN OF THE FLIPPED CLASSROOM

RESEARCH AND ADVANCED TECHNOLOGY FOR DIGITAL LIBRARIES

14TH EUROPEAN CONFERENCE, ECDL 2010, GLASGOW, UK, SEPTEMBER 6-10, 2010, PROCEEDINGS

Springer In the 14 years since its ?rst edition back in 1997, the European Conference on Research and Advanced Technology for Digital Libraries (ECDL) has become the reference meeting for an interdisciplinary community of researchers and practitioners whose professional activities revolve around the theme of d- th ital libraries. This volume contains the proceedings of ECDL 2010, the 14 conference in this series, which, following Pisa (1997), Heraklion (1998), Paris (1999),Lisbon(2000),Darmstadt(2001),Rome(2002),Trondheim(2003),Bath (2004), Vienna (2005), Alicante (2006), Budapest (2007), Aarhus (2008), and Corfu (2009), was held in Glasgow, UK, during September 6–10, 2010. th Asidefrombeingthe14 edition of ECDL, this was also the last, at least with this name since starting with 2011, ECDL will be renamed (so as to avoid acronym con?icts with the European Computer Driving Licence) to TPLD, standing for the Conference on Theory and Practice of Digital Libraries. We hope you all will join us for TPDL 2011 in Berlin! For ECDL 2010 separate calls for papers, posters and demos were issued, - sulting in the submission to the conference of 102 full papers, 40 posters and 13 demos. This year, for the full papers, ECDL experimented with a novel, two-tier reviewing model, with the aim of further improving the quality of the resu- ing program. A ?rst-tier Program Committee of 87 members was formed, and a further Senior Program Committee composed of 15 senior members of the DL community was set up.

ADVANCES IN WEB-BASED LEARNING -- ICWL 2015

14TH INTERNATIONAL CONFERENCE, GUANGZHOU, CHINA, NOVEMBER 5-8, 2015, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 14th International Conference on Web-Based Learning, ICWL 2015, held in Guangzhou, China, in Noavember 2015. The 18 revised full papers presented together with 2 invited papers and 7 short papers were carefully reviewed and selected from about 79 submissions. The papers are organized in topical sections on collaborative and peer learning; e-lerning platform and tolls; design, model, and framework of e-learning systems; intelligent tutoring and tools; pedagogical issues; personalized and adaptive learning; and Web 2.0 and social learning environments.

TECHNOLOGY-ENHANCED LEARNING FOR A FREE, SAFE, AND SUSTAINABLE WORLD

16TH EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, EC-TEL 2021, BOLZANO, ITALY, SEPTEMBER 20-24, 2021, PROCEEDINGS

Springer Nature This book constitutes the proceedings of the 16th European Conference on Technology Enhanced Learning, EC-TEL 2021, held in Bolzano, Italy, in September 2021. The 21 research full papers and 28 short papers presented in this volume were carefully reviewed and selected from 98 submissions. The European Conference on Technology-Enhance Learning, is committed to address global challenges and quality education. The papers deal with the Sustainable Development Goals, particularly SDG 4 and SDG 10, to help to reduce the existing gaps and inequalities between countries and regions from around the world in terms of inclusiveness, equity, access, and quality of education.

HANDBOOK OF RESEARCH ON ACQUIRING 21ST CENTURY LITERACY SKILLS THROUGH GAME-BASED LEARNING

IGI Global Emerging technologies are becoming more prevalent in global classrooms. Traditional literacy pedagogies are shifting toward game-based pedagogy, addressing 21st century learners. Therefore, within this context there remains a need to study strategies to engage learners in meaning-making with some element of virtual design. Technology supports the universal design learning framework because it can increase the access to meaningful engagement in learning and reduce barriers. The Handbook of Research on Acquiring 21st Century Literacy Skills Through Game-Based Learning provides theoretical frameworks and empirical research findings in digital technology and multimodal ways of acquiring literacy skills in the 21st century. This book gains a better understanding of how technology can support leaner frameworks and highlights research on discovering new pedagogical boundaries by focusing on ways that the youth learn from digital sources such as video games. Covering topics such as elementary literacy learning, indigenous games, and student-worker training, this book is an essential resource for educators in K-12 and higher education, school administrators, academicians, pre-service teachers, game developers, researchers, and libraries.

TECHNOLOGY ENHANCED LEARNING

RESEARCH THEMES

Springer This book gives an overview of the state-of-the-art in Technology Enhanced Learning (TEL). It is organized as a collection of 14 research themes, each introduced by leading experts and including references to the most relevant literature on the theme of each cluster. Additionally, each chapter discusses four seminal papers on the theme with expert commentaries and updates. This volume is of high value to people entering the field of learning with technology, to doctoral students and researchers exploring the breadth of TEL, and to experienced researchers wanting to keep up with latest developments.

SCALING UP LEARNING FOR SUSTAINED IMPACT

8TH EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, EC-TEL 2013, PAPHOS, CYPRUS, SEPTEMBER 17-21, 2013, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 8th European Conference on Technology Enhanced Learning, EC-TEL 2013, held in Paphos, Cyprus, in September 2013. The 31 full papers, 18 short papers, 14 demonstrations and 29 posters presented were carefully reviewed and selected from 194 submissions. The papers are organized in topical sections. The topics addressed include open educational resources (OER), massive open online courses (MOOC), schools of the future, orchestration of learning activities, learning networks, teacher networks, bring your own device (BYOD), social media, learning analytics, personalization, mobile learning, computer-supported collaborative learning, game-based and simulation-based learning, and learning design.

TECHNOLOGY ENHANCED ASSESSMENT

21ST INTERNATIONAL CONFERENCE, TEA 2018, AMSTERDAM, THE NETHERLANDS, DECEMBER 10–11, 2018, REVISED SELECTED PAPERS

Springer This book constitutes the proceedings of the 21st International Conference on Technology Enhanced Assessment, TEA 2018, held in Amsterdam, The Netherlands, in December 2018. The 14 papers presented were carefully selected from 34 submissions. They are centered around topics like e-learning, computer-assisted instruction, interactive learning environments, collaborative learning, computing education, student assessment.

RECOMMENDER SYSTEMS FOR TECHNOLOGY ENHANCED LEARNING

RESEARCH TRENDS AND APPLICATIONS

Springer Science & Business Media As an area, Technology Enhanced Learning (TEL) aims to design, develop and test socio-technical innovations that will support and enhance learning practices of individuals and organizations. Information retrieval is a pivotal activity in TEL and the deployment of recommender systems has attracted increased interest during the past years. Recommendation methods, techniques and systems open an interesting new approach to facilitate and support learning and teaching. The goal is to develop, deploy and evaluate systems that provide learners and teachers with meaningful guidance in order to help identify suitable learning resources from a potentially overwhelming variety of choices. Contributions address the following topics: i) user and item data that can be used to support learning recommendation systems and scenarios, ii) innovative methods and techniques for recommendation purposes in educational settings and iii) examples of educational platforms and tools where recommendations are incorporated.

SUSTAINING TEL: FROM INNOVATION TO LEARNING AND PRACTICE

5TH EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, EC-TEL 2010, BARCELONA, SPAIN, SEPTEMBER 28 - OCTOBER 1, 2010, PROCEEDINGS

Springer These proceedings of the ?fth European Conference on Technology Enhanced Learning (EC-TEL 2010) exemplify the highly relevant and successful research being done in TEL. Because of this greatwork,this year's conference focused on "Sustaining TEL: From Innovation to Learning and Practice." The last decade hasseensigni?cantinvestmentintermsofe?ortandresources(i.e.,time,people, and money) in innovating education and training. The time has come to make the bold step from small-scale innovation research and development to larg- scale and sustainable implementation and evaluation. It is time to show the world (i.e., government, industry, and the general population) that our ?eld has matured to the stage that sustainable learning and learning practices – both in schools and in industry – can be achieved based upon our work. ThepresentdayTEL communitynowfaces newresearchquestionsrelatedto large-scale deployment of technology enhanced learning, supporting individual learning environments through mashups and social software, new approaches in TEL certi?cation, and so forth. Furthermore, new approaches are required for the design, implementation, and use of TEL to improve the understanding and communication of educational desires and the needs of all stakeholders, ranging from researchers, to learners, tutors, educational organizations, companies, the TEL industry, and policy makers. And the TEL community has taken up this challenge. As one can see in this volume, in its ?fth year the conference was once more able to assemble the most prominent and relevant research results in the TEL area. The conference generatedmorethan150submissionswhichdemonstratesaverylivelyinterestin the conference theme, thus signi?cantly contributing to the conference's success.

ECEL 2020 19TH EUROPEAN CONFERENCE ON E-LEARNING

Academic Conferences International Limited

ADVANCES IN DEEP LEARNING, ARTIFICIAL INTELLIGENCE AND ROBOTICS

PROCEEDINGS OF THE 2ND INTERNATIONAL CONFERENCE ON DEEP LEARNING, ARTIFICIAL INTELLIGENCE AND ROBOTICS, (ICDLAIR) 2020

Springer Nature This book of Advances in Deep Learning, Artificial Intelligence and Robotics (proceedings of ICDLAIR 2020) is intended to be used as a reference by students and researchers who collect scientific and technical contributions with respect to models, tools, technologies and applications in the field of modern artificial intelligence and robotics. Deep Learning, AI and robotics represent key ingredients for the 4th Industrial Revolution. Their extensive application is dramatically changing products and services, with a large impact on labour, economy and society at all. The research and reports of new technologies and applications in DL, AI and robotics like biometric recognition systems, medical diagnosis, industries, telecommunications, AI petri nets model-based diagnosis, gaming, stock trading, intelligent aerospace systems, robot control and web intelligence aim to bridge the gap between these non-coherent disciplines of knowledge and fosters unified development in next-generation computational models for machine intelligence.

GRAND CHALLENGES IN TECHNOLOGY ENHANCED LEARNING

OUTCOMES OF THE 3RD ALPINE RENDEZ-VOUS

Springer Science & Business Media This book presents a key piece of the vision and strategy developed in STELLAR. It sets out a new mid-term agenda by defining Grand Challenges for research and development in technology-enhanced learning. Other than mere technology prizes, STELLAR Grand Challenges deal with problems at the interface of social and technical sciences. They pose problems that can be solved only in interdisciplinary collaboration. The descriptions of the Grand Challenge Problems were sent out to a number of stakeholders from industry, academia, and policy-making who responded with insightful, creative and critical comments bringing in their specific perspectives. This book will inspire everyone interested in TEL and its neighboring disciplines in their future projects. All of the listed problems, first hints with respect to the approach, measurable success indicators and funding sources are outlined. The challenges focus on what noted experts regard as important upcoming, pending, and innovative fields of research, the solution of which is within reach in a timeframe of a mere 2 to 15 years of work.

SEMANTIC WEB TECHNOLOGIES FOR E-LEARNING

IOS Press The final part deals with the social semantic web. Aspects covered include a broad survey of this emerging area; a description of a number of projects and experiences exploring semantic web technologies in social learning contexts; and a new approach to collaborative filtering.

HANDBOOK OF RESEARCH ON CLOUD-BASED STEM EDUCATION FOR IMPROVED LEARNING OUTCOMES

IGI Global As technology advances, so must our education system. Cloud computing serves as an ideal method for e-learning thanks to its flexibility, affordability, and availability. Cloud-based learning is especially dynamic in STEM education, as it can significantly lower the cost of building cumbersome computer labs while fostering engaged learning and collaboration among students. The Handbook of Research on Cloud-Based STEM Education for Improved Learning Outcomes prepares current and future instructors for exciting breakthroughs in STEM education driven by the advancement of cloud technologies. From virtual lab and app construction, to information sharing and course material distribution, this volume touches on a variety of topics related to the benefits and challenges of adopting cloud technologies in the classroom. This book is an invaluable reference for educators, technology professionals, administrators, and education students who wish to become leaders in their fields.

HUMAN-COMPUTER INTERACTION. INTERACTING IN VARIOUS APPLICATION DOMAINS

13TH INTERNATIONAL CONFERENCE, HCI INTERNATIONAL 2009, SAN DIEGO, CA, USA, JULY 19-24, 2009, PROCEEDINGS, PART IV

Springer Science & Business Media The 13th International Conference on Human–Computer Interaction, HCI Inter- tional 2009, was held in San Diego, California, USA, July 19–24, 2009, jointly with the Symposium on Human Interface (Japan) 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human–Computer Interaction, the Third International Conf- ence on Virtual and Mixed Reality, the Third International Conference on Internati- alization, Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on A- mented Cognition, the Second International Conference on Digital Human Modeling, and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry and gove- mental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers - dress the latest research and development efforts and highlight the human aspects of the design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human–computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas.

METHODOLOGIES AND INTELLIGENT SYSTEMS FOR TECHNOLOGY ENHANCED LEARNING, 9TH INTERNATIONAL CONFERENCE, WORKSHOPS

Springer This book is based on the 9th International Conference in Methodologies and Intelligent Systems for Technology Enhanced Learning, which was hosted by the University of Salamanca and held in Ávila (Spain) from 26th to 28th June 2019. Expanding on the topics of the evidence-based TEL workshops series, it provides an open forum for discussing intelligent technologies for learning. In particular, it discusses recommendation mechanisms that enable us to tailor learning to different contexts and people, e.g., by considering their personality; and learning analytics that help augment learning opportunities, e.g., by supporting the adaptation of the learning material. In addition to technologies, it covers methods from different fields, such as educational psychology or medicine, and from diverse communities co-working with people, such as making communities and participatory design communities to help create novel TEL opportunities. Further it describes the use of methods and technologies to investigate and enhance learning for "fragile users", like children, the elderly and those with special needs. We thank the sponsors: IEEE Systems Man and Cybernetics Society Spain Section Chapter and the IEEE Spain Section (Technical Co-Sponsor), IBM, Indra, Viewnext, Global exchange, AEPIA, APPIA and AIR institute.

ECEL 2021 20TH EUROPEAN CONFERENCE ON E-LEARNING

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ECEL2013- PROCEEDINGS FOR THE 12TH EUROPEAN CONFERENCE ON ELEARNING

ECEL 2013

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RE-IMAGINING TECHNOLOGY ENHANCED LEARNING

CRITICAL PERSPECTIVES ON DISRUPTIVE INNOVATION

Springer Nature This book analyses technology enhanced learning through the lens of Disruptive Innovation theory. The author argues that while technology has not disrupted higher education to date, it has the potential to do so. Drawing together various case studies, the book analyses established technologies through a Disruptive Innovation perspective, including virtual learning environments, and includes Wikipedia as an example of successful innovative disruption. The author also examines the disruptive potential of social media technologies and the phenomenon of user-owned technologies. Subsequently, the author explores strategic narratives for technology enhanced learning and imagines what the Disruptive University might look like in the future. This book will be valuable for scholars of technology enhanced learning in higher education as well as those looking to increase their understanding of and practice with technology enhanced learning.

METHODOLOGIES AND INTELLIGENT SYSTEMS FOR TECHNOLOGY ENHANCED LEARNING

Springer This volume presents recent research on Methodologies and Intelligent Systems for Technology Enhanced Learning. It contains the contributions of ebuTEL 2013 conference which took place in Trento, Italy, on September, 16th 2013 and of mis4TEL 2014 conference, which took take place in Salamanca, Spain, on September, 4th-6th 2014. This conference series are an open forum for discussing intelligent systems for Technology Enhanced Learning and empirical methodologies for its design or evaluation.

OPEN WORLD LEARNING

RESEARCH, INNOVATION AND THE CHALLENGES OF HIGH-QUALITY EDUCATION

Routledge This book provides state-of-the-art contemporary research insights into key applications and processes in open world learning. Open world learning seeks to understand access to education, structures, and the presence of dialogue and support systems. It explores how the application of open world and educational technologies can be used to create opportunities for open and high-quality education. Presenting ground-breaking research from an award winning Leverhulme doctoral training programme, the book provides several integrated and cohesive perspectives of the affordances and limitations of open world learning. The chapters feature a wide range of open world learning topics, ranging from theoretical and methodological discussions to empirical demonstrations of how open world learning can be effectively implemented, evaluated, and used to inform theory and practice. The book brings together a range of innovative uses of technology and practice in open world learning from 387,134 learners and educators learning and working in 136 unique learning contexts across the globe and considers the enablers and disablers of openness in learning, ethical and privacy implications, and how open world learning can be used to foster inclusive approaches to learning across educational sectors, disciplines and countries. The book is unique in exploring the complex, contradictory and multi-disciplinary nature of open world learning at an international level and will be of great interest to academics, researchers, professionals, and policy makers in the field of education technology, e-learning and digital education.

TECHNOLOGY IN MATHEMATICS TEACHING

SELECTED PAPERS OF THE 13TH ICTMT CONFERENCE

Springer This book comprises chapters featuring a state of the art of research on digital technology in mathematics education. The chapters are extended versions of a selection of papers from the Proceedings of the 13th International Conference on Technology in Mathematics Teaching (ICTMT-13), which was held in Lyon, France, from July 3rd to 6th. ICTMT-13 gathered together over one hundred participants from twenty countries sharing research and empirical results on the topical issues of technology and its potential to improve mathematics teaching and learning. The chapters are organised into 4 themed parts, namely assessment in mathematics education and technology, which was the main focus of the conference, innovative technology and approaches to mathematics education, teacher education and professional development toward the technology use, and mathematics teaching and learning experiences with technology. In 13 chapters contained in the book, prominent mathematics educators from all over the world present the most recent theoretical and practical advances on these themes This book is of particular interest to researchers, teachers, teacher educators and other actors interested in digital technology in mathematics education.

MEMOIRS OF THE INSTITUTE OF SCIENTIFIC AND INDUSTRIAL RESEARCH, OSAKA UNIVERSITY

DATA DRIVEN APPROACHES IN DIGITAL EDUCATION

12TH EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, EC-TEL 2017, TALLINN, ESTONIA, SEPTEMBER 12–15, 2017, PROCEEDINGS

Springer This book constitutes the proceedings of the 12th European Conference on Technology Enhanced Learning, EC-TEL 2017, held in Tallinn, Estonia, in September 2017. The 24 full papers, 23 short papers, 6 demo papers, and 22 poster papers presented in this volume were carefully reviewed and selected from 141 submissions. The theme for the 12th EC-TEL conference on Data Driven Approaches in Digital Education' aims to explore the multidisciplinary approaches thateectively illustrate how data-driven education combined with digital education systems can look like and what are the empirical evidences for the use of datadriven tools in educational practices.

TECHNOLOGY-ENHANCED LEARNING

PRINCIPLES AND PRODUCTS

Springer Science & Business Media Technology-enhanced learning is a timely topic, the importance of which is recognized by educational researchers, practitioners, software designers, and policy makers. This volume presents and discusses current trends and issues in technology-enhanced learning from a European research and development perspective. This multifaceted and multidisciplinary topic is considered from four different viewpoints, each of which constitutes a separate section in the book. The sections include general as well as domain-specific principles of learning that have been found to play a significant role in technology-enhanced environments, ways to shape the environment to optimize learners' interactions and learning, and specific technologies used by the environment to empower learners. An additional section discusses the work presented in the preceding sections from a computer science perspective and an implementation perspective. This book comes out of the work in Kaleidoscope: a European Network of Excellence in which over 1,000 people from more than 90 institutes across Europe participate. Kaleidoscope brings together researchers from diverse disciplines and cultures, through their collaboration and sharing of scientific outcomes, they are helping move the field of technology-enhanced learning forward.

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DESIGN PATTERNS AND PATTERN LANGUAGES

Brill / Sense Designing for technology enhanced learning (TEL) is often a demanding process. It involves creating challenging learning tasks, making sure that students have access to the right tools and resources, and ensuring there are appropriate opportunities for them to learn with and from each other. Good design is creative, and it also depends on deep experience, sound evidence about learning and an understanding of the capabilities of technology. This book introduces the use of design patterns and pattern languages as ways of capturing and sharing TEL design knowledge. The editors have assembled a team of authors who have pioneered research and development in this rapidly expanding field. The book surveys the state-of-the art and identifies productive lines for future research. It will be invaluable to researchers, teachers, students and professional TEL designers.