Athens Institute for Education and Research
A World Association of Academics & Researchers

15th Annual International Conference on Information Technology & Computer Science, 20-23 May 2019, Athens, Greece
Organized by the Computer Unit of ATINER
Sponsored by the Athens Journal of Technology & Engineering & Athens Journal of Sciences
Conference Venue: Titania Hotel, 52 Panepistimiou Avenue, Athens, Greece (close to metro station *Panepistimio*)

Monday 20 May 2019

08:00-08:40 Registration and Refreshments
08:40-09:00 (Room A - 10th Floor): Welcome and Opening Address by Gregory T. Papanikos, President, ATINER.

09:00-10:30 Session I (Room D - 10th Floor): Technology in Education*

Chair: Panagiotis Petratos, Vice-President of Information Communications Technology, ATINER & Fellow, Institution of Engineering and Technology & Professor, Department of Computer Information Systems, California State University, Stanislaus, USA.

1. Rogelio Palomera-Garcia, Professor, University of Puerto Rico at Mayagüez, Puerto Rico & Rogelio Palomera-Arias, Assistant Professor, University of Texas at San Antonio, USA. Technology in Education: How much is Too Good? How much is Too Bad?
2. Aino Saarinen, PhD Student, University of Helsinki, Finland. The Use of Digital Technologies at School and Cognitive Learning Outcomes: Findings from the Finnish PISA 2015 Data.
3. Luciane Santos, Associate Professor, UDESC – Santa Catarina State University, Brazil. Teaching and Learning with Technology in Basic Education: Developing Computational Thinking of Students.

*This session is jointly offered with the Education Unit.

10:30-12:00 Session II (Room D - 10th Floor): Health Care Informatics & Medical IT

Chair: Till Haenisch, Professor, DHBW Heidenheim, Germany.

1. Yiannis Papadopoulos, Professor, University of Hull, UK & Luis Torrao, PhD Student, University of Hull, UK. Philosophy-Inspired Computing for the Future of Mental Health.
2. Carsten Lecon, Professor, Aalen University of Applied Sciences, Germany. Kinetosis Analyzation of the Symptoms Occurrence in Combination with Eye Tracking.
3. Ana Ktona, Associate Professor, University of Tirana, Albania, Anila Mitre, Associate Professor, University of Tirana, Albania, Denada Collaku, Lecturer, University of Tirana, Albania & Jezuina Koroveshi, Lecturer, University of Tirana, Albania. Intelligent Systems to Support Decision Making.
4. Petrika Manika, Lecturer, University of Tirana, Albania & Ana Ktona, Associate Professor, University of Tirana, Albania. Introducing a Model for the Representation of Medical Data using Ontologies and Web Technologies.

12:00-13:30 Session III (Room D - 10th Floor): Artificial Intelligence & Machine Learning

Chair: Yiannis Papadopoulos, Professor, University of Hull, UK.

1. Jezuina Koroveshi, Lecturer, University of Tirana, Albania, Ana Ktona, Associate Professor, University of Tirana, Albania, Denada Collaku, Lecturer, University of Tirana, Albania & Endri Bimbari, Software Engineer, Raiffeisen Bank, Albania. A Reinforcement Learning Approach for Target Tracking using Neural Network as Function Approximation.
2. Thomas Fehlmann, Senior Researcher, Euro Project Office AG, Switzerland. Testing Artificial Intelligence with Artificial Intelligence.
3. Eberhard Kranich, Senior Researcher, Euro Project Office AG, Germany. Steps towards a Sensitivity Analysis for Linear Multiple-Response Transfer Functions.
4. Marina Burdack, Research Fellow, Aalen University of Applied Sciences, Germany & Manfred Rossle, Professor, Head of the Business Informatics Study Program, Aalen University of Applied Sciences, Germany. MyPaper – A Prototype of an Intelligent Paper Organization Tool based on Machine Learning Techniques.
5. Sebastian Stigler, Research Fellow, Aalen University of Applied Sciences, Germany & Marina Burdack, Research Fellow, Aalen University of Applied Sciences, Germany. A Practical Approach of Different Programming Techniques to Implement a real-Time Application using Django.

13:30-14:30 Lunch

14:30-16:00 Session IV (Room D - 10th Floor): IT Security & Other Issues

Chair: Thomas Fehlmann, Senior Researcher, Euro Project Office AG, Switzerland.

1. Till Haenisch, Professor, DHBW Heidenheim, Germany & Christoph Karg, Professor, Aalen University of Applied Sciences, Germany. Using Monte Carlo Simulation to Estimate the Success of IT Security Measures in Industry 4.0 Environments.
2. Christoph Karg, Professor, Aalen University of Applied Sciences, Germany & Till Haenisch, Professor, DHBW Heidenheim, Germany. Using an Extended Attack Defence Graph Model to Estimate the Risk of a Successful Attack on an IT Infrastructure.
3. Spyros Tragoudas, Professor and Chair, Department of Electrical and Computer Engineering, Southern Illinois University Carbondale, USA, Puneet R. Savanur, PhD Student, Southern Illinois University Carbondale, USA & Damianos Veskoukis, Graduate Student, Southern Illinois University Carbondale, USA. Efficient Verification of a Requirement.
4. Mihail Mateev, Chief Assistant Professor, University of Architecture, Civil Engineering and Geodesy (UACEG), Bulgaria. Management of Smart Energy Systems with IoT-Based Predictive Analytics for More Efficient Energy Consumption.

16:00-17:30 Session V (Room B - 10th Floor): Technology, Internet, and Social Media I*

Chair: George Kontos, Associate Professor, Western Kentucky University, USA.

1. Chul Hyun Lee, Professor, Gyeongin National University of Education, South Korea. Analyzing the Difficulties pre-Service Elementary School Teachers Feel in EPL Programming Learning Process.
2. Trond Vegard Johannessen, Associate Professor, NHH Norwegian School of Economics, Norway & Anna Mette Fuglseth, Professor, NHH Norwegian School of Economics, Norway. Experiences from a Problem-based Learning Approach to Teaching Spreadsheet Modelling.
3. Mihaela-Viorica Rusitoru, Associate Researcher, University of Franche-Comté | ELLIADD, France, Ioan Roxin, Professor, University of Franche-Comté | ELLIADD, France & Federico Tajariol, Professor, University of Franche-Comté | ELLIADD, France. Skills for Educational and Social Inclusion. How Digital Competences could Improve Lifelong Learning?
4. Soo Jeong Lee, Research Fellow, Korea Research Institute of Vocational & Education Training, South Korea. A Study on Development of E-learning Population Education Program in Response to Low Birthrate & Aging Society in South Korea.
5. Binyu Yang, Research Assistant, The George Washington University, USA. College Students' Use of Self-Regulatory Prompts in Online Vocabulary Learning.
6. Lorena Valerio, Faculty, Travel & Tourism Management, De La Salle–College of Saint Benilde, Philippines. Effectiveness of YouTube as an Edutainment Medium: An Exploratory Study.

*This session is jointly offered with the Education Unit.

21:00-23:00 Greek Night and Dinner

Tuesday 21 May 2019

07:45-11:00 Session VI: An Educational Urban Walk in Modern and Ancient Athens

Group Discussion on Ancient and Modern Athens.
Visit to the Most Important Historical and Cultural Monuments of the City (be prepared to walk and talk as in the ancient peripatetic school of Aristotle)

11:15-13:00 Session VII (Room D - 10th Floor): Computer Science & IT Education

Chair: Christoph Karg, Professor, Aalen University of Applied Sciences, Germany.

1. Amos Olagunju, Professor, St Cloud State University, USA. The Impacts of Agile and DevOps on Future Computer Science and Information Technology Curricula.
2. Ignatios Vakalis, Professor, California Polytechnic State University, USA. Proven Strategies for Increasing Female Undergraduate Enrollments in Computer Science/Software Engineering.
3. George Kontos, Associate Professor, Western Kentucky University, USA. How to Create a Web Assignment that Encourages Community Participation.
4. Marc Hermann, Researcher / Lecturer, Aalen University of Applied Sciences, Germany & Carsten Lecon, Professor, Aalen University of Applied Sciences, Germany. A Flexible Search Function for Online Courses in the Sense of Attribute Grammars.
5. Chhavi Rana, Assistant Professor, UIET MDU Rohtak, India. Learning Analytics and Educational Data Mining: A Survey from 2005 to 2015.

13:00-14:00 Lunch

14:00-15:30 Session VIII (Room D - 10th Floor): Technology, Internet, and Social Media II*

Chair: Amos Olagunju, Professor, St Cloud State University, USA.

1. Jean-Luc Gurtner, Professor, University of Fribourg, Switzerland & Estelle Trisconi, Lecturer, University of Applied Educational Sciences of Lausanne, Switzerland. Completing one's Homework with or without the Interference of Social Networks. The Role of Gender, Type of Tasks and Student Level.
2. Sumita Chakraborti-Ghosh, Professor, Tennessee State University, USA. Technology for Inclusion: Special Education, Rehabilitation for All.
3. Elizabeth Diaz, Senior Lecturer, The University of Texas at Arlington, USA. My School in a Tablet: miABCEscuela.
4. Marianna Baranovskaa, Research Fellow, Macromedia University of Applied Sciences, Germany. LectureCast and Immersion – Why 360-degree Video is (not) a Solution.

This session is jointly offered with the Education Unit.

15:30-17:00 Session IX (Room D - 10th Floor): Special Topics

Chair: Chhavi Rana, Assistant Professor, UIET MDU Rohtak, India.

1. Biswadip Ghosh, Associate Professor, Metropolitan State University of Denver, USA. Improving the Effectiveness of C2C e-Commerce Apps by building User Collaboration.
2. Anil Ghosh, Professor, Indian Statistical Institute, India. Use of a New Dissimilarity Measure in Order to Solve Problems in Popular Clustering Algorithms.
3. Elma Zanaj, Associate Profesor, Departments of Electronics and Telecommunications, Polytechnic University of Tirana, Tirana, Albania, Eneo Petoku, Departments of Electronics and Telecommunications, Polytechnic University of Tirana, Tirana, Albania, Blerina Zanaj, Department of Mathematics and Informatics, Agricultural University of Tirana, Tirana, Albania, Amarildo Rista, Faculty of Information Technology, Aleksandër Moisiu University, Durres, Albania & Gledis Basha, Lecturer, Departments of Electronics and Telecommunications, Polytechnic University of Tirana, Tirana, Albania. Range Transmission Studied at Underwater Acoustic Networks.

20:00- 21:30 Dinner

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Wednesday 22 May 2019
Mycenae and Island of Poros Visit
Educational Island Tour

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Thursday 23 May 2019
Delphi Visit

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Friday 24 May 2019
Ancient Corinth and Cape Sounion

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All ATINER's conferences are organized by the Academic Council. This conference has been organized with the assistance of the following academics, who contributed by chairing the conference sessions and/or by reviewing the submitted abstracts and papers:

1. Gregory T. Papanikos, President, ATINER & Honorary Professor, University of Stirling, UK.
2. Panagiotis Petratos, Vice-President of Information Communications Technology, ATINER & Fellow, Institution of Engineering and Technology & Professor, Department of Computer Information Systems, California State University, Stanislaus, USA.
3. Pascal Jollivet, Head, Computer Unit, ATINER & Associate Professor, University of Technology of Compiègne / Sorbonne University, France.
4. Till Haenisch, Professor, Academic Member, ATINER & DHBW Heidenheim, Germany.
5. Christoph Karg, Professor, Aalen University of Applied Sciences, Germany.
6. Yiannis Papadopoulos, Academic Member, ATINER & Professor, University of Hull, UK.
7. Amos Olagunju, Professor, St Cloud State University, USA.
8. Ana Ktona, Academic Member, ATINER & Associate Professor, University of Tirana, Albania.
9. George Kontos, Associate Professor, Western Kentucky University, USA.
10. Chhavi Rana, Academic Member, ATINER & Assistant Professor, UIET MDU Rohtak, India.
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