



11th Annual International Conference on Mathematics: Teaching, Theory & Applications, 26-29 June 2017, Athens, Greece

Organized by the Mathematics & Statistics Research Unit

Sponsored by the Athens Journal of Sciences

Conference Venue: Titania Hotel, 52 Panepistimiou Avenue, Athens, Greece (close to Omonoia metro station)

Monday 26 June 2017

08:00-09:00 Registration and Refreshments

09:00-09:30 (Room C-10th Floor) Welcome and Opening Address

Gregory T. Papanikos, President, ATINER.

09:30-11:00 Session I (Room A-10th Floor): Teaching and Applications I

Chair: Codruta Simona Stoica, Head, Mathematics & Statistics Research Unit, ATINER & Associate Professor, Aurel Vlaicu University of Arad, Romania.

1. Robert Powers, Professor, University of Northern Colorado, USA & Jenni Harding, Professor, University of Northern Colorado, USA. Learning from a Mathematics Teaching Grant: Working With Teachers Kindergarten through High School.
2. Hagar Gal, Head of M.Teach Program, David Yellin Academic College of Education, Israel. Nurturing Mathematically Talented Students as Autonomous Learners - The Case of Generic Questions.
3. Marta Pena, Associate Professor, Universitat Politècnica de Catalunya, Spain. Applying Dynamical Discrete Systems to Teach Mathematics.
4. Yahya Al Zahrani, Assistant Professor, Umm Al Qura University, Saudi Arabia. Strategy to Overcome Mistakes by New Primary Mathematics Teachers in Saudi Arabia in Teaching Geometry.

11:00-12:30 Session II (Room A-10th Floor): Mathematics I

Chair: Robert Powers, Professor, University of Northern Colorado, USA.

1. Codruta Stoica, Professor / Vice-Rector, Aurel Vlaicu University of Arad, Faculty of Exact Sciences, Romania. Skew-evolution Semiflows in the Study of Stochastic Equations.
2. Bancha Panyanak, Assistant Professor, Chiang Mai University, Thailand. The Demiclosed Principle for multi-Valued Nonexpansive Mappings in Banach Spaces.
3. Manal Gabour, Lecturer, The Academic Arab College for Education, Beit-Berl College, Israel & Amal Sharif-Rasslan, Head of Mathematics Department, The Academic Arab College for Education, Israel. Special Paths in Lattice Rectangles: A Demonstration of an Inner Bound Between Elementary Geometry and Number Theory.
4. Javier Camargo, Researcher, Industrial University of Santander, Colombia. The Jones' Set Function T.

12:30-14:00 Session III (Room A-10th Floor): Teaching and Applications II

Chair: Krzysztof Ostaszewski, Professor and Actuarial Program Director, Illinois State University, USA.

1. Elias Abboud, Head of Mathematics Section, Academic Arab Institute, Beit Berl College, Israel. On Ratios of Areas Related to the Routh-Steiner Theorem: Exploring Activities. ([paper](#))
2. Shaker Rasslan, Lecturer, AL-Qasemi Academic College of Education, Israel, Hussam Arisha, Lecturer, AL-Qasemi Academic College of Education, Israel, Otman Jaber, Lecturer, AL-Qasemi Academic College of Education, Israel, Juhaina Awawdi-Shahbari, Lecturer, AL-Qasemi Academic College of Education, Israel & Amal Sharif-Rasslan, Head of Mathematics Department, The Academic Arab College for Education, Israel. Infinity: A Number or not a Number?
3. Dalal Safiyah, M.Ed. Student, The Academic Arab College for Education, Israel & Amal Sharif-Rasslan, Head of Mathematics Department, The Academic Arab College for Education, Israel. Pre-Service Teachers' Perceptions of the Percent Concept.
4. Samaher Nama, M.Ed. Student, The Academic Arab College for Education, Israel & Amal Sharif-Rasslan, Head of Mathematics Department, The Academic Arab College for Education, Israel. The Impact of Origami-Based Instruction on Thinking Levels in Euclidean Geometry and on Achievements among High School Students.

14:00-15:00 Lunch

15:00-16:30 Session IV (Room A-10th Floor): Teaching and Applications III

Chair: Timothy M. Young, Director, Center for Business & Manufacturing Excellence (CBME) & Professor and Graduate Director, Center for Renewable Carbon, The University of Tennessee, USA.

1. Krzysztof Ostaszewski, Professor and Actuarial Program Director, Illinois State University, USA. Teaching of Expected Value of a Random Variable Calculation: The Darth Vader Rule.
2. Yihua Wang, Assistant Professor, Tamkang University, Taiwan & Yunru Lai, MSc Student, Tamkang University, Taiwan. Phase II Monitoring of First-Order Autocorrelated General Linear Profiles.
3. Martin Riegler, Senior Researcher, Kompetenzzentrum Holz GmbH, Austria. Closing the Technological Gap within Statistical Models for Producing Wood-Based Composites.

21:00-23:00 The Pragmatic Symposium of the Conference as Organized in Ancient Athens with Dialogues, Food, Wine, Music and Dancing but fine tuned to Synchronous Ethics

Tuesday 27 June 2017

07:30-10:30 Session V: An Educational Urban Walk in Modern and Ancient Athens

Chair: Gregory Katsas, Vice President of Academic Affairs, ATINER & Associate Professor, The American College of Greece-Deree College, Greece.

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)

11:00-12:30 Session VI (Room A-10th Floor): Teaching and Applications IV

Chair: Ampalavanar Nanthakumar, Professor, State University of New York at Oswego, USA.

1. Georgy Burde, Professor, Ben-Gurion University of the Negev, Israel. Symmetry Methods: Research and Teaching.
2. Chih-Ru Hsiao, Professor, Soochow University, Taiwan. Lesson Study on Mathematical Modelling with Contexts of Natural Disasters.
3. Jeffrey Taub, Associate Professor, Maine Maritime Academy, USA. Use of 5th-Year Students to Teach 1st-Year Pre-Calculus.
4. Solange Roa-Fuentes, Researcher, Industrial University of Santander, Colombia. Mental Structures that Shape the Learning of a Linear Algebra Theorem: Cases Study in a University Context.
5. Jenny Patricia Acevedo Rincon, PhD Student, University of Campinas, Brazil. The Professional Learning Situated in an Interdisciplinary Practice of the Future Mathematics Teachers.

12:30-14:00 Session VII (Room A-10th Floor): Statistics

Chair: Guzide Senel, Assistant Professor, University of Amasya, Turkey.

1. Rafik Aramyan, Chair of the Department of Mathematical Cybernetics, Russian Armenian University, Armenia. An Approach to the Spherical Mean Radon Transform.
2. Ampalavanar Nanthakumar, Professor, State University of New York at Oswego, USA. A Comparison of Misclassification Error Rates.
3. Hyo-II Park, Professor, Chongju University, South Korea. On the Simultaneous Test for the Mean and Variance.

14:00-15:00 Lunch

15:00-16:30 Session VIII (Room A-10th Floor): Teaching and Applications V

Chair: Marco Tulio Ramirez Torres, Research Professor, Universidad Autónoma de San Luis Potosí, Mexico.

1. Esin Avci, Assistant Professor, Giresun University, Turkey. The Prevalence and Heterogeneity of Energy Drink Consumption in Worldwide: A Meta-analysis. (Tuesday)
2. Elizabeth Stojanovski, Lecturer, University of Newcastle, Australia. Effectiveness of Statistics Teaching Methods.
3. Senem Koc, PhD Student, Ondokuz Mayis University Samsun, Turkey, Paola Berchiolla, Assistant Professor, University of Torino, Italy, Giuseppe Migliaretti, Assistant Professor, University of Torino, Italy & Leman Tomak, Assistant Professor, Ondokuz Mayis University Samsun, Turkey. Machine Learning for Biomedical Data.

16:30-18:00 Session IX (Room A-10th Floor): Mathematics II

Chair: Elizabeth Stojanovski, Lecturer, University of Newcastle, Australia.

1. Guzide Senel, Assistant Professor, University of Amasya, Turkey. Applications of Bitopologies in Analysis and General Topology.
2. Marco Tulio Ramirez Torres, Research Professor, Universidad Autónoma de San Luis Potosí, Mexico, José Salomé Murguía Ibarra, Research Professor, Universidad Autónoma de San Luis Potosí, Mexico, Marcela Mejía Carlos, Research Professor, Universidad Autónoma de San Luis Potosí, Mexico, Luis Javier Ontañón García Pimentel, Research professor, Universidad Autónoma de San Luis Potosí, Mexico & Jesus Agustin Gonzalez Aboytes, PhD Student, Universidad Autónoma de San Luis Potosí, Mexico. Preprocessing Function Based on Synchronization Phenomena for Partial Image Encryption.
3. Peter Brown, Senior Lecturer, University of New South Wales, Australia, Rasool Forooshani Nagholali, Azarbaijan Shahid Madani University, Iran & Farjali Igadi, Azarbaijan Shahid Madani University, Iran. Fourth Power Diophantine Equations in Gaussian Integers.

21:00- 22:30 Dinner (Details during registration)

Wednesday 28 June 2017
Educational Island Tour or Mycenae and Epidaurus Visit

Thursday 29 June 2017
Delphi Visit