

Conference Programme

Science in TEchnology

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SCiNTE 2015

November 5-7, 2015

Athens, Greece

Conference Venue:

National Hellenic Research Foundation

Conference Tracks

- Physical and Mathematical Sciences
- Electrical Engineering, Computer Science & Telecommunications
- Applied Mechanics, Civil and Energy Engineering
- Materials & Micro-nano Technology
- Earth and Environmental Sciences
- Life and Health Sciences, Bioengineering
- Learning/Teaching Methodologies and Assessment
- Arts & Humanities
- Food Science and Technology
- Management Science, Finance, Economics & Tourism

Conference Chairs: Dimos Triantis, Ioannis Kandarakis

Organized by
Technological
Educational Institute
(TEI) of Athens



Supported by
Research Funding
Program
ARCHIMEDES III



Cofinanced by Greece and the European Union

2015
SCinTE

Dear Conference Delegates,

We wish to welcome you in Athens and to our Conference, SCinTE 2015.

The conference taking place here today, is organized by the Technological Educational Institute of Athens and has two very distinct and highly correlated features:

The first feature is interdisciplinarity, given that the conference covers all areas of science and technology and the second one is that the conference takes place upon the occasion of completion of the research activities funded by the Operational Programme for Education and Lifelong Learning, NSRF (National Strategic Reference Framework) 2007-2014.

We ventured to organize an international conference, under the belief that it is the best practice with respect to the promotion, publicity and dissemination of research results.

Nevertheless, omissions and shortcomings were witnessed and for these we kindly express our apologies; we believe that the lessons learned from this project will constitute a legacy and formulate an asset for future events.

Kind acknowledgements have to be attributed to the people who contributed towards the organization of the conference:

- The members of the Local Organizing Committee
- The Thematic Coordinators
- The members of the International Scientific Committee
- And the staff of the Research Committee of the Technological Educational Institute of Athens, for their endeavor in assuring that this venture should materialize.

We would be remiss if we didn't reference the Archimedes III Project, sponsor of this conference as a medium of its publicity action, which enabled us to waive participation fees for all conference delegates.

Thank you for joining the conference by submitting your recent research.

Conference Chairs,

**Prof. Dimos Triantis
Prof. Ioannis Kandarakis**

Thematic Session Programme

1 Thursday, 5 November 2015

- Applied Mechanics, Civil and Energy Engineering
- Earth & Environmental Sciences
- Food Science and Technology
- Management Science, Finance, Economics & Tourism

2 Friday, 6 November 2015

- Materials & Micro-nano Technology
- Electrical Engineering, Computer Science & Telecommunications
- Learning/Teaching Methodologies and Assessment
- Life and Health Sciences, Bioengineering

3 Saturday, 7 November 2015

- Applied Physics and Biomedical Engineering
- Arts & Humanities

DAY 1: Thursday, 5 November 2015			
Time	Room A*	Room B	Poster
08.30-09.15	Registration		
09.15-09.30	Opening	-	
09.30-09.45			
09.45-10.00	Plenary Lecture	Plenary Lecture	
10.00-10.15			
10.15-10.30	Oral Presentations	Oral Presentations	
10.30-10.45			
10.45-11.00			
11.00-11.15			
11.15-11.30			
11.30-11.45	Coffee Break		
11.45-12.00			
12.00-12.15	Oral Presentations	Oral Presentations	
12.15-12.30			
12.30-12.45			
12.45-13.00			
13.00-13.15			
13.15-13.30	Light Lunch Break		
13.30-13.45			
13.45-14.00			
14.00-14.15	Oral Presentations		
14.15-14.30			
14.30-14.45			
14.45-15.00			
15.00-15.15			
15.15-15.30	Coffee Break		
15.30-15.45			
15.45-16.00	Plenary Lecture	Plenary Lecture	
16.00-16.15			
16.15-16.30	Oral Presentations	Oral Presentations	
16.30-16.45			
16.45-17.00			
17.00-17.15			
17.15-17.30			
17.15-17.30	Coffee Break		
17.30-17.45			
17.45-18.00	Oral Presentations	Oral Presentations	
18.00-18.15			
18.15-18.30			
18.30-18.45			
18.45-19.00			

Parallel Poster Session for Tracks:
■ Applied Mechanics, Civil and Energy Engineering
■ Earth & Environmental Sciences
■ Food Science and Technology
■ Management Science, Finance, Economics & Tourism

- Applied Mechanics, Civil and Energy Engineering
- Earth & Environmental Sciences
- Food Science and Technology
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DAY 2: Friday, 6 November 2015			
Time	Room A*	Room B	Poster
09.00-09.15	Plenary Lecture	Plenary Lecture	
09.15-09.30			
09.30-09.45	Oral Presentations	Oral Presentations	
09.45-10.00			
10.00-10.15			
10.15-10.30			
10.30-10.45			
10.45-11.00	Oral Presentations	Oral Presentations	
11.00-11.15			
11.15-11.30			
11.30-11.45			
11.45-12.00			
12.00-12.15	Coffee Break		
12.15-12.30	Coffee Break		
12.30-12.45	Oral Presentations	Plenary Lecture	
12.45-13.00		Oral Presentations	
13.00-13.15			Oral Presentations
13.15-13.30			
13.30-13.45			
13.45-14.00	-		
14.00-14.15	Light Lunch Break		
14.15-14.30	Light Lunch Break		
14.30-14.45	Light Lunch Break		
14.45-15.00	Plenary Lecture	Plenary Lecture	
15.00-15.15	Oral Presentations	Oral Presentations	
15.15-15.30			
15.30-15.45			
15.45-16.00			
16.00-16.15			
16.15-16.30	Oral Presentations	-	
16.30-16.45		-	
16.45-17.00		Coffee Break	
17.00-17.15		Coffee Break	
17.15-17.30	Oral Presentations	-	
17.30-17.45			
17.45-18.00			
18.00-18.15			
18.15-18.30			
18.30-18.45			
18.45-19.00			

Parallel Poster Session for Tracks:

- Electrical Engineering, Computer Science & Telecommunications
- Materials & Micro-nano Technology
- Life and Health Sciences, Bioengineering
- Learning/Teaching Methodologies and Assessment

- Electrical Engineering, Computer Science & Telecommunications
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DAY 3: Saturday, 7 November 2015			
Time	Room A*	Poster	
09.00-09.15	Plenary Lecture		
09.15-09.30			
09.30-09.45	Oral Presentations		
09.45-10.00			
10.00-10.15			
10.15-10.30			
10.30-10.45			Coffee Break
10.45-11.00	Plenary Lecture		
11.00-11.15			Oral Presentations
11.15-11.30			
11.30-11.45	Oral Presentations		
11.45-12.00	Coffee Break		
12.00-12.15	Coffee Break		
12.15-12.30	Plenary Lecture		
12.30-12.45	Oral Presentations		
12.45-13.00			Oral Presentations
13.00-13.15			
13.15-13.30			
13.30-13.45	Oral Presentations		
13.45-14.00			
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14.45-15.00			
15.00-15.15			

Parallel Poster Session for Tracks:

- Applied Physics and Biomedical Engineering
- Arts & Humanities

- Applied Physics and Biomedical Engineering
- Arts & Humanities

* Room A: L. Zervas Amphitheatre

08.30 -09.15 **Registration**

09.15 -09.45

Conference opening - Welcome addresses
L. Zervas Amphitheatre (Thursday, 5 November 2015)



Session Title: Applied Mechanics, Civil and Energy Engineering
L. Zervas Amphitheatre (Thursday, 5 November 2015)

9.45 -10.15 **Plenary Lecture: Full-Face Excavation of Large Tunnels in Difficult Conditions**
Prof. Giovanni Barla
Politecnico di Torino, Italy

Sub Session: Building Materials and Monuments
Chair Persons: Prof. S.K. Kourkoulis and Dr. Alexopoulos

10.15 -10.30 **Rejoining fragmented elements of stone monuments: Critical aspects from the experience of the Athens Acropolis restoration project.**
S. K. Kourkoulis, 181-A03-177

10.30 -10.45 **Nano-additions of multiwall carbon nanotubes in white cement for restoration of monuments of Cultural Heritage.**
Z. Metaxa, S. Boutsoukou, S. Nitodas and S. K. Kourkoulis, 296-A03-242

10.45 -11.00 **An experimental study of the pull-out mechanism of threaded metallic bars embedded in marble blocks.** I. Dakanali, I. Stavrakas, D. Triantis, E. D. Pasiou, S. K. Kourkoulis, 181-A03-243

11.00 -11.15 **The displacement field in a circular disc made of either orthotropic or transversely isotropic material under parabolic radial pressure.**
C. F. Markides, 181-A03-092

11.15 -11.30 **Electrical and Acoustic Emissions during Three Point Bending Tests of Pre-Notched Marble Specimens.** E. D. Pasiou, I. Stavrakas, G. Hloupis, S. K. Kourkoulis and D. Triantis, 198-A03-113

11.30 -12.00 **Coffee Break**

Sub Session: Structures
Chair Persons: Prof. K. Belibassakis and Prof. C. Nomicos

12.00 -12.15 **Evaluation of LNG Bunkering Concept for Greek Sea Territory.**
G.A. Livanos, S. Dimitrellou, E. Strantzali, G. Theotokatos, 142-A03-043

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- 12.15 -12.30 **Ship Shape Optimization using a BEM-Isogeometric solver for wave resistance.** K.V. Kostas, A.I. Ginnis, C.G. Politis and P.D. Kaklis, 161-A03-065
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- 12.30 -12.45 **PVA-CNT fiber as embedded sensor in GFRP material under four point bending loads.** P. Lymperta, S. K. Kourkoulis, P. Poulin and N. D. Alexopoulos, 296-A03-239
-
- 12.45 -13.00 **Earthquake design for controlled structures.**
N. G. Pnevmatikos, G.Hatzigeorgiou, 125-A03-070
-
- 13.00 -13.15 **Simple Probabilistic Slope Stability Analysis.** G. Belokas, 228-A03-148

13.15 -14.00 **Break - Light Lunch**

Sub Session: Energy

Chair Persons: Prof E. Kondyli and Prof. P. Axaopoulos

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- 14.00 -14.15 **Green Islands in Europe and Prospects for Greek Islands. The Tilos Project.**
J.K. Kaldellis, G. Salagiannis, N.C. Iliá, P. Stinis, K. Dimakis, 263-A03-191
-
- 14.15 -14.30 **Degradation effects in field-aged c-Si solar panels of a grid-tie photovoltaic plant.** K. Gkarakis, K. Loukidis, P. Axaopoulos, 173-A03-084
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- 14.30 -14.45 **Electromobility in EU: Current status and future prospects for the Greek market.** J.K. Kaldellis, St. Liaros, G. Spyropoulos, 263-A03-203
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- 14.45 -15.00 **Application of recurrence quantification analysis in wind time series from wind farms.** A.K. Charakopoulos, T.E. Karakasidis and I. Sarris, 278-A03-210
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- 15.00 -15.15 **Optimal Flow Control of Laminar Vortex Shedding around a Cylinder.**
I. Bonis, H. Sarimveis and D. Koubogiannis, 247-A03-194

15.15 -15.45 **Coffee Break**



Session Title: Earth & Environmental Sciences

L. Zervas Amphitheatre (Thursday, 5 November 2015)

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- 15.45 -16.15 **Plenary Lecture: Advances in Satellite Remote Sensing of major Natural, Environmental and Industrial Hazards**
Prof. Valerio Tramutoli
Università della Basilicata, Italy

Sub Session: Earth & Environmental Sciences (Part I)

Chair Persons: Prof. F. Vallianatos and Prof. V. Tramutoli

16.15 -16.30	Problems of Fracture Mechanics and Statistical Physics. P. Sammonds and C. Matthews, 295-A05-234
16.30 -16.45	Temporal Properties of Seismicity in the Corinth Rift: Are Earthquakes Random? G. Michas, F. Vallianatos and P. Sammonds, 193-A05-106
16.45 -17.00	Microseismicity study in the area of Florina (Western Macedonia, Greece). M. Mesimeri , V. Karakostas , E. Papadimitriou and T. Tsapanos, 248-A05-171
17.00 -17.15	Spectral fractal analysis of MHz electromagnetic signals. D.Nikolopoulos, E.Petraki, D.Cantzoz, G.Coulouras and C. Nomicos, 229-A01-149
17.15 -17.45	Coffee Break

Sub Session: Earth & Environmental Sciences (Part II)
Chair Persons: Dr. M. Valavanidis and Dr. V. Pagounis

17.45 -18.00	Coastal Transport Integrated System (Co.Tr.I.S). D. N. Pantazis, P. Stratakis, V. Moussas, E. Lazarou, D. Stathakis, E. Gkadolou, C. Karathanasis, C. Politis, A. C. Daverona, V. Kyriakopoulou, E. Babalona, J. Chrysoulakis, M. Paralika, J. Tyrinopoulos, 104-A05-038
18.00 -18.15	Exploration of spatial variability of cycling in a British Urban Environment - Evidence from North East England. S. Alvanides, G. Yeboah, 261-A05-189
18.15 -18.30	An overview of landslide detection and monitoring using geodetic satellite observations. A.C. Peidou, G. Fotopoulos, 289-A05-226
18.30 -18.45	3D Heritage Recording using Terrestrial Laser Scanning Techniques. V. D. Andritsanos, M. Giannou, V. Pagounis, M. Tsakiri, 108-A05-044
18.45 -19.00	Urban run-off management in a Greek coastal city: Citizens' awareness, attitudes and proposed solutions. D. Kalderis, G. Stavroulakis and E. Diamadopoulos, 137-A05-035

Session Title: Food Science and Technology
Room B (Thursday, 5 November 2015)

9.45 -10.15	Plenary Lecture: Exploiting systems biology tools for next generation predictive food microbiology. Prof. Jan F.M. Van Impe BioTeC-Chemical and Biochemical Process Technology and Control, KU Leuven, Belgium
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Sub Session: Food safety and authentication.

Chair Persons: Prof. J. Tsaknis and Dr. D. Houhoula

- 10.15 -10.30 HSPME Procedure and chemical analysis of mastic gum. Antimicrobial activity.** K. Graikou, H. Damianakos, J. Tsaknis, I. Chinou, 153-A09-056
- 10.30 -10.45 The effects of food irradiation on quality of nuts.**
P. Zoumpoulakis, K. Kokkotou, C. Fotakis, I. F. Strati, S. M. Bratakos, K. Sflomos and V. J. Sinanoglou, 166-A09-072
- 10.45 -11.00 Volatile profile as an indicator for the determination of the geographical origin of Greek hard cheese Graviera.** M. Parpouna, J. Hadjigeorgiou, P. Sotirakoglou and T. Massouras, 171-A09-081
- 11.00 -11.15 Quality Degradation Effects during Storage of Currant-Paste.**
E. K. Nikolidaki, A. Lazou, G.S. Skoumpi, S.E. Papadakis, V.T. Karathanos and N. P. Zogzas, 191-A09-104
- 11.15 -11.30 Aflatoxin B1 effects on kidney Vero cells viability and oxidative stress.**
S. Mavrikou, D. Iconomou, E. Flampouri and S. Kintzios, 194-A09-109

11.30 -12.00 Coffee Break

Sub Session: New trends in food science and technology

Chair Persons: Dr. V. J. Sinanoglou and Dr. V. Papadimitriou

- 12.00 -12.15 High-energy extraction techniques and Response Surface Methodology: A powerful combination for the recovery of bioactive compounds.**
T. Tsiaka, P. Zoumpoulakis, V. J. Sinanoglou, C. Makris, G.A. Heropoulos and A. C. Calokerinos, 199-A09-114
- 12.15 -12.30 Copper complexing properties and organic matter characterization of beers from Greek microbreweries.** A. Sakellari, S. Karavoltos, E. Bembi, M. Plavšić, A. Kaliora, E. Dassenakis and N. Kalogeropoulos, 195-A09-126
- 12.30 -12.45 Gold Nanoparticles Sensor for the detection of adulteration of meat products contaminated with horse meat.** D.P. Houhoula, M. Kouzilou, K. Tzogias, V. Lougovois, J. Tsaknis and K. Sflomos, 246-A09-169
- 12.45 -13.00 Assessment of biological activity of Chios mastic gum fractions (neutral, acidic) before and after encapsulation in liposomes.** O. Gortzi, V. Athanasiadis, S. Lalas, D.-A. Karagkini, D. Kouretas and J. Tsaknis, 288-A09-225

13.15 -14.00 Break - Light Lunch



Session Title: Management Science, Finance, Economics & Tourism
Room B (Thursday, 5 November 2015)

15.45 -16.15 **Plenary Lecture: Advisory Approaches for the Tourism Industry: Tourism Paradox, Tourism Equinox and Tourism Detox.**
Prof. Irfan Arikan
IMC FH Krems University of Applied Sciences, Austria

Sub Session: Tourism

Chair Persons: Prof. Irfan Arikan and Dr. V. Katsoni

16.15 -16.30 **Entrepreneurship Education Impact on Entrepreneurial Intention and Its Antecedents.** A. G. Sahinidis, 236-A10-157

16.30 -16.45 **Cultural tourist's behavior - Case study foreign tourists in Cluj-Napoca.**
T. Valentin, N. A. Letitia, C. Smaranda and B. Cristina, 187-A10-165

16.45 -17.00 **Leaders vs Managers in Hospitality Management.**
S. Varvaressos, D. Laloumis, D. Papayiannis, 160-A10-064

17.00 -17.15 **The role of IT and new technologies in promoting hotel services.**
K. Marinakos, D. Laloumis, V. Stelios, 235-A10-155

17.15 -17.45 **Coffee Break**

Sub Session: Management and Economics

Chair Persons: Prof. J. Bouris and Prof. P. Lytras

17.45 -18.00 **Is Cittaslow an Effective Model in Destination Development for Sustainable Tourism? A Case Study in Austria.**
I. Arikan, A. Dündar and L. S. Edlinger, 136-A10-033

18.00 -18.15 **A model for House Allocation.** P. Eirinakis, D. Magos and I. Mourtos, 133-A10-036

18.15 -18.30 **Strategy Map Effectiveness for SMEs with Qualitative & Quantitative Research Methods.** J. Bouris, 148-A10-051

18.30 -18.45 **The influence of the hostels' online presence on the decision making of potential guests.** V. Katsoni, N. Kehm and M. Szram, 180-A10-091

18.45 -19.00 **Employing Analytic Network Process in the communication of food cooperatives.** A. Kavoura, A. Florek-Paszowska, 262-A10-208



Session Title: Materials & Micro-nano Technology

L. Zervas Amphitheatre (Friday, 6 November 2015)

9.00 -9.30 **Plenary Lecture: "Smart" surfaces, devices, and Lab on Chip Microsystems, via plasma Micro-Nanotexturing: Applications in Life Sciences and Food analysis.**
Dr. Evangelos Gogolides
Director of Research Institute of Nanoscience and Nanotechnology,
NCSR 'Demokritos', Greece

Sub Session: Devices and Characterization

Chair Persons: Prof. E. Gogolides and Prof. G. Kaltsas

9.30 -9.45 **Multipurpose thermopile-based MEMS sensors developed at ICTM - review of results and perspectives.** D. V. Randjelovic, 154-A04-058

9.45 -10.00 **Chemical sensors for chlorpyrifos detection using platinum nanoparticles.**
L. Madianos, M. Filipidou, E. Skotadis, S.Chatzandroulis, D. Tsoukalas,
221-A04-140

10.00 -10.15 **Screen-printed thermistors for flexible flow sensing applications.**
A. Moschos, T. Surovy and G. Kaltsas, 226-A04-145

10.15 -10.30 **Epoxy Resin -Zinc Ferrite Nanocomposites: Development, Thermomechanical Properties, Dielectric Response and Energy Storage.**
S. G. Stavropoulos, A. Sanida and G. C. Psarras, 281-A04-214

10.30 -10.45 **Coffee Break**

Sub Session: Nanodevices and Materials

Chair Persons: Prof. D. Randjelovic and Dr. G. Psarras

10.45 -11.00 **Novel biosensor concept based on conductivity change of nanoparticle networks.** E. Skotadis, K. Voutyras, M. Chatzipetrou, G. Tsenkis,
L. Madianos, S. Chatzandroulis, I. Zergioti and D. Tsoukalas, 184-A04-095

11.00 -11.15 **Single ZnO nanowire based transistors passivated with gelatin.**
C. Florica, M. Beregoi, A. Costas, E. Matei, M. E. T. Molares and
I. Enculescu, 253-A04-179

11.15 -11.30 **Nanostructured metal oxides for energy and environmental applications.**
M. Sucheá, I. V. Tudose, F. Iacomi and E. Koudoumas, 196-A04-111

11.30 -11.45 **Investigating Additively Manufactured Parts' Performance through the use of Fiber Optic Sensors.** C. Kousiatza, S. N. Economidou, N. Chatzidai
and D. Karalekas, 245-A04-168

11.45 -12.00 **Staircase to finance: Synergies of Structural Funds with R&D&I funds. The Junker Fund Effect.** Panagiotis Ignatiadis

12.00 -12.30 **Coffee Break**

Sub Session: Nanotechnology - Material Characterization

Chair Persons: Prof. D. Tsoukalas and Prof. E. Valamontes

12.30 -12.45 **Development and Characterization of Epoxy Resin - Strontium Ferrite Nanocomposites.** A. Sanida, S. G. Stavropoulos, E. C. Senis, O. Vryonis and G. C. Psarras, 238-A04-159

12.45 -13.00 **Effect of aluminum surface treatment parameters on print quality by screen printing method.** S. Theohari, P. Gioti, 139-A04-040

13.00 -13.15 **Work function measurements of CdTeZn Samples using Scanning Kelvin Probe microscopy.** N. Laskaris and T. Ganetsos, 254-A04-180

14.00 -14.45 **Break - Light Lunch**



Session Title: Electrical Engineering, Computer Science & Telecommunications

L. Zervas Amphitheatre (Friday, 6 November 2015)

14.45 -15.15 **Plenary Lecture: Optical Fibre Technologies for the Future Internet.** Prof. Periklis Petropoulos
University of Southampton, UK

Sub Session: Hardware systems and Telecom

Chair Persons: Dr. A. Bogris and Prof. G. Tompras

15.15 -15.30 **BER Estimation for Wireless Optical Links with Spatial Diversity and Pointing Errors Over K-Distribution Modeled Atmospheric Turbulence for Different Modulation Formats.** M.P. Ninos, H.E. Nistazakis, G.S. Tombras, 286-A02-221

15.30 -15.45 **Scalable and disaggregated data centers enabled by photonic integrated technologies.** A. Bogris, A. Kapsalis and D. Syvridis, 219-A02-138

15.45 -16.00 **Flexible, printable organic photovoltaic cells using reduced graphene electrodes.** K. Petridis, D. Konios, M. M. Stylianakis, G. Kakavelakis, M. Sygletou, K. Savva, E. Stratakis and E. Kymakis, 215-A02-133

16.00 -16.15 **An Improved Multi-Branch Switched Diversity Receiver.** P. G. Stavrianos, P. S. Bithas and D. S. Kalivas, 210-A02-128

16.15 -16.30 **Designing an Information Management System for the Supporting Facilities of a modern Hospital.** B. Spyropoulos, N. Doulgeraki, E.Gazani, K. Mikropoulos, M. Thanai, A. Georganis, A. Fytsilis, T. Lykogiannakis, 143-A02-045

16.30 -16.45 **Motion Control for an Underwater Robot with Undulatory Fin Propulsion.** R. Gliva, M. Mountoufaris, M. M. Kavoussanos, K. Dedousis, M. Sfakiotakis, 225-A02-144

16.45 -17.15 **Coffee Break**

Sub Session: Computing Systems and Applications
Chair Persons: Prof. G. Pantziou and Prof. N. Vassilas

17.15 -17.30 **An energy-efficient protocol for data gathering in wireless sensor networks using mobile sinks.** G. Pantziou, C. Konstantopoulos, D. Gavalas, N. Vathis and V. Nakos, 144-A02-046

17.30 -17.45 **A pilot surveillance system for the prevention of bullying in primary schools.** E. Galiotou, P. Kazilas, C. Skourlas and G. Vasiliou, 140-A02-041

17.45 -18.00 **Robust Retrieval from Compressed Urban Databases Using SIFT Local Features.** E. Spyrou, A. Kesidis and N. Vassilas, 284-A02-218

18.00 -18.15 **Concurrent On-Line testing of Untestable Hardware Trojans.** I. Voyiatzis, C. Estathiou, 282-A02-215

18.15 -18.30 **Android Based Home Automation Using Raspberry Pi.** D. Kehagias and D. Nini, 130-A02-025

18.30 -18.45 **A New Computational Methodology for the Optimization of Numerical Environmental Simulations.** I. Famelis, G. Galanis, Ch. Tsitouras, G. Kallos, A. Liakatas, 110-A01-046

18.45 -19.00 **Experimental Evaluation of an Electrohydrodynamic CPU Cooling System Utilizing a Wire-Grid Electrode Configuration.** A. X. Moronis, E. D. Fylladitakis, 175-A02-086



Session Title: Learning/Teaching Methodologies and Assessment
Room B (Friday, 6 November 2015)

9.00 -9.30 **Plenary Lecture: Learning Analytics and Open Learner Models for Formative Assessment.**
Prof. Susan Bull
University of Birmingham, UK

Sub Session: Learning/Teaching Methodologies and Assessment (Part I)

Chair Persons: Prof. M. Samarakou and Em. Prof. M. Grigoriadou

- 9.30 -9.45 **The role of a technologically or pedagogically rich training context in cultivating TPACK to preservice teachers of computer science.**
K. Papanikolaou, M. Grigoriadou and M. Tzelepi, 276-A07-207
- 9.45 -10.00 **Collaborative Development of an open source auto-assessment tool for Open e-Class.** D. Nikoudis and K. Georgouli, 120-A02-065
- 10.00 -10.15 **Adaptation of Learning Methodologies for eLearning Environments.**
M. Samarakou, E.D. Fylladitakis, A. Papadakis, G. Tsaganou, J. Gelegenis, S. Athinaios and M. Grigoriadou, 107-A07-043
- 10.15 -10.30 **A Multi-Cycle Peer Assessment Activity in a Wiki.**
A. Gogoulou, G. Tsaganou and M. Grigoriadou, 200-A07-115

10.30- 10.45 **Coffee Break**

Sub Session: Learning/Teaching Methodologies and Assessment (Part II)

Chair Persons: Prof. S. Bull and Dr. K. Papanikolaou

- 10.45 -11.00 **Content and Language Integrated Learning (CLIL): an experimental study on CLIL compatibility with the modern Greek educational system.**
C. Georgopoulou and M. Rangoussi, 242-A07-172
- 11.00 -11.15 **Reusable Learning Units and Adjustable Graphs for improved Syllabus Management.** A. Papadakis, M. Samarakou and K. Rantos, 216-A07-134
- 11.15 -11.30 **Visualization of the Bubble Sort Algorithm Using Web Graphics.**
A. Gasparinatou and N. Katsos, 201-A07-116
- 11.30 -11.45 **Open-Research - Boosting Research Impact and Visibility through the Web of Data.** C. Sgouropoulou, A. Tsolakidis and E. Triperina, 208-A02-124
- 11.45 -12.00 **Developing a framework for transferring knowledge among the researchers of research teams.** A. Tsolakidis, P. Belsis, C. Skourlas, 211-A02-129

12.00 -12.30 **Coffee Break**



Session Title: Life and Health Sciences, Bioengineering

Room B (Friday, 6 November 2015)

- 12.30 -13.00 **Plenary Lecture: Innovative health technologies: hype, hope and evidence.**
Prof. Jane Sandall
Women's Health Academic Centre Division of Women's Health Faculty of Life Sciences & Medicine King's College London, UK

Sub Session: Life and Health Sciences

Chair Persons: Prof. A. Lagiou and Prof. G. Karikas

- 13.00 -13.15 **Efficacy evaluation and stability study of a multifunctional cosmetic cream containing antioxidants, phyto-steroids and Acetyl Tetrapeptide.**
S. Papageorgiou, A. Varvaresou, E. Protopapa, E. Dilaveri, F. Mellou and E. Papageorgiou, 164-A06-069
- 13.15 -13.30 **Applications and barriers of pharmacogenomics in relation to personalized medicine.**
A. Vaiopoulou, M. Gazouli, G. A. Karikas, 113-A06-049
- 13.30 -13.45 **The importance of mental health promotion in times of financial crisis.**
K. Pikouli, M. Triantafyllidi and E.Sakellari, 197-A06-112
- 13.45 -14.00 **The Patients' Satisfaction Degree of Greek Public Hospitals: A Case-Study of 7 Outpatients Hospitals Departments.**
A. Goula, G. Pierrakos, A. Yovanis, M. Stamouli, S. Dimakou, D. Latsou, M. Sarris, S. Soulis, 145-A10-047

14.00-14.45 **Break - Light Lunch**

Sub Session: Bioengineering

Chair Persons: Prof. G. Panayiotakis and Dr. I. Valais

- 14.45- 15.15 **Plenary Lecture: Turn the heat on malignant melanoma: Therapeutic effectiveness of hyperthermia.**
Michail Panagiotidis
Heriot Watt University, Scotland, UK
- 15.15 -15.30 **Patient dose during therapeutic endoscopic retrograde cholangiopancreatography procedure.** A. Hadjiconstanti, G. Messaris, K. Thomopoulos and G. Panayiotakis, 157-A06-061
- 15.30 -15.45 **The effects of vinblastine in the lipid bilayers.**
E. Semidalas, K. Viras, P. Chatzigeorgiou, T. Kellici, G. Leonis, T. Mavromoustakos and C. Semidalas, 117-A06-062
- 15.45 -16.00 **Electrochemical mammalian cell biosensor assembly through PEDOT biocompatibility for xenobiotic toxicity assessment.**
E. Flampouri, S. Mavrikou and S. Kintzios, 241-A06-162
- 16.00 -16.15 **Targeting highly expressed extracellular HSP90 in breast cancer stem cells, inhibits tumor growth in vitro and in vivo.**
T. Stivarou, D. Stellas, D. Vattis, E. C. Ventouras, D. Thomaidou and E. Patsavoudi, 244-A06-167

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- 16.15 -16.30 **Intermodal Computer Aided Diagnosis System for Focal Liver Lesions.**
A. Skouroliakou, I. Gatos, S. Tsantis , N. Arikidis and G. Kagadis,
256-A06-182
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Session Title: Applied Physics and Biomedical Engineering
L. Zervas Amphitheatre (Saturday, 7 November 2015)

Sub Session: Applied Physics and Biomedical Engineering (Part I)
Chair Persons: Prof. I. Kandarakis and Dr. C. Arvanitis

- 9.00 -9.30 **Plenary Lecture: Image guided focused ultrasound: a new paradigm for targeted therapies in the brain.**
Dr. Costas D. Arvanitis
Harvard Medical School; Brigham and Women's Hospital, USA
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- 9.30 -9.45 **Secondary radiation transmission from common building materials for radiation protection in dental and veterinary radiographic applications.**
Ioannis Vlachos, Nektarios Kalyvas, Xenophon Tsantilas, George Fountos, Harry Delis, Ioannis Kandarakis, George Panayiotakis, 138-A01-039
-
- 9.45 -10.00 **Investigation of luminescence properties of Lutetium Fine Silicate (LFS-3) scintillation crystals under X-ray radiographic conditions.**
Stratos David, Christos Michail, Ioannis Valais, Nektarios Kalyvas, Athanasios Bakas, Alexander Gektin, Ioannis Kandarakis and Kostantinos Kourkoutas, 162-A01-067
-
- 10.00 -10.15 **Experimental and numerical investigation of the plasma dynamics and jet formation in low current table-top X-pinch plasma devices.**
G. Koundourakis, A. Skoulakis, I. Fitis, V. Dimitriou, E. Bakarezos, N.A. Papadogiannis, E.L. Clark, N. Vlahakis and M. Tatarakis, 204-A01-120
-
- 10.15 -10.30 **Spatial Resolution of A Digital Breast Tomosynthesis System.**
Andreas E. Petropoulos, Spyros G. Skiadopoulos, Gerasimos A.T. Messaris, Anna N. Karahaliou and Lena I. Costaridou, 218-A06-136
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10.30 -10.45 **Coffee Break**

Sub Session: Applied Physics and Biomedical Engineering (Part II)
Chair Persons: Assoc Prof. M. Kallergi and Prof. E. Ventouras

- 10.45 -11.15 **Plenary Lecture: Automated three dimensional assessment of tumor response to therapy.**
Assoc. Prof. Maria Kallergi
Department of Biomedical Engineering, Technological Educational Institute of Athens, Greece
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11.15 -11.30 **The evolution of Proton Therapy as reflected on published Industrial Property documents.** Basile Spyropoulos, 143-A01-044

11.30 -11.45 **Digital Signal Processing with Parametric Methodologies for Structural Health Monitoring.** Fragkiskos P. Pentaris, George N. Fouskitakis and John P. Makris, 275-A01-206

11.45 -12.15 *Coffee Break*

Sub Session: Applied Physics and Biomedical Engineering (Part III)

Chair Persons: Dr. C. Potiriadis and Dr. N. Kalyvas

12.15 -12.45 **Plenary Lecture: "Physical aspects of environmental radioactivity: Sources and measurement techniques".**
Dr. Costas Potiriadis
Greek Atomic Energy Commission

12.45 -13.00 **Dual Energy x-ray techniques for Body Composition Studies and Imaging.**
George Fountos, 207-A01-123

13.00 -13.15 **Measurement of the Optical Response of a High Resolution CMOS Imaging Detector.** I. Valais, C. Michail, S. Karfitsas, N. Kalyvas, G. Fountos and I. Kandarakis, 124-A06-069

13.15 -13.30 **Modeling a CMOS based indirect imaging detector. Effect of bit depth and detector software.** N. Kalyvas, C. Michail, G. Fountos, I. Seferis, I. Valais, P. Liaparinos, S. David, A. Bakas, G. Panayiotakis and I. Kandarakis, 111-A01-050



Session Title: Arts & Humanities

L. Zervas Amphitheatre (Saturday, 7 November 2015)

Chair Persons: Prof. B. Argyropoulos and Prof. G. Panagiariis

13.30 -13.45 **Science and Technology in Archaeological Museums: The Re-Exhibition of the Archaeological Museum of Tegea.**
G. Grigorakakis, P. Ioannidis and A. Tsatsaris, 168-A02-078

13.45 -14.00 **Oil paintings on paper support: Determination of condition criteria via non destructive testing and microanalysis.**
A. Alexopoulou, B. Singer, P. Banou, S. Zervos, A. Kaminari, A. Moutsatsou, A. Terlixi, E. Tziamourani, A. Karabotsos, M. Doulgeridis, 174-A08-085

14.00 -14.15 **Swelling inhibition of clay-bearing building materials.**
N.A. Stefanis, M. Stefanidou, A. Kalagri, I. Karatasios, V. Kilikoglou, I. Papagianni and P. Theoulakis, 183-A08-094

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- 14.15 -14.30 Development of a standard laser technology for cleaning evidence of proteinaceous Cultural and Natural Heritage.**
A. Papanikolaou, K. Melessanaki, A. Alexandropoulou, K. Giannaras, A. Karambotsos, E. Karantoni, E. Malea, S. Rapti, N.-A. Stefanis, Y. Facorellis, S. Boyatzis, P. Pouli and G.Panagiaris, 231-A08-151
-
- 14.30 -14.45 Assessing Environmental Effects on Organic Materials in Cultural Heritage: Chemical Deterioration of Artificially Aged Bone.** S. Boyatzis, E. Ioakimoglou, Y. Facorellis, C. Vossou, M. Sakarellou, E. Panou-Pomoni, E. Fotou, E. Karantoni, A. G. Kalamounias, G. A. Voyiatzis, S. Boghosian, J. Richter, A. Karampotsos, E. Tziamourani and G. Panagiaris, 212-A08-130
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- 14.45 -15.00 Preliminary investigation of L-cysteine and mature tobacco as corrosion inhibitors for marine composite artefacts containing copper or iron alloys.** V. Argyropoulos, S.C. Boyatzis, M. Giannoulaki, A. Malea, A. Pournou, S. Rapti, A. Zacharopoulou, and E. Guilminot, 274-A08-205
-
- 15.00 -15.15 Testing composites for the in situ protection of wooden shipwrecks.**
A. N. Stefanis and A. Pournou, 183-A08-127
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Poster Sessions

Poster Session: Applied Mechanics, Civil and Energy Engineering

Thursday, 5 November 2015, Time 10.15-19.00

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- 1 **Experimental evaluation of a retrofitted PV/T collector.**
E. Sakellariou, P. Axaopoulos, **123-A03-068**

 - 2 **An Internet-Accessible Experiment Using a Remote Photovoltaic Laboratory.**
E. D. Fylladitakis, P. J. Axaopoulos, M. Theodoridis and K. Moutsopoulos, **127-A03-072**

 - 3 **Pressure Stimulated Currents and Acoustic Emission combined recordings for the detection of compressive strength of Dionysos marble.**
I. Stavrakas, D. Triantis, A. Kyriazopoulos, K. Ninos, **116-A03-037**

 - 4 **Acoustic Emissions Experimental Technique used to verify Kaiser effect during compressional tests of Dionysos marble.** D. Triantis and I. Stavrakas, **116-A03-038**

 - 5 **Using b-value analysis to estimate pre-failure characteristics of cement mortar beams subjected to Three-Point-Bending.** I. Dakanali, A. Kyriazopoulos, I. Stavrakas, D. Triantis, **252-A03-178**

 - 6 **Comparison of different Air Conditioning Systems implemented in a typical office building in Greece.** I. Lampro and D. Koubogiannis, **247-A03-188**

 - 7 **Non-linear Time series Methods Applications on Transport Data.**
A.D. Fragkou, T.E. Karakasidis and E. Nathanail, **278-A03-211**

 - 8 **Acoustic and electrical emissions from sandstone under uniaxial compression.**
V. Saltas, I. Fitisil, J. P. Makris and F. Vallianatos, **178-A05-089**

 - 9 **Corrosion-induced fracture toughness degradation of artificially aged 2024 aluminum alloy specimens.** P. Liberaki, N. D. Alexopoulos, C. I. Stergiou and S.K. Kourkoulis, **296-A03-236**

 - 10 **Fracture toughness of electron beam welded specimens of aluminum alloy 6156.**
T. Examilioti, N. D. Alexopoulos, G. Stefanou, V. Stergiou, S. K. Kourkoulis, **296-A03-238**

 - 11 **The effect of graphene nanoplatelets addition on the mechanical performance of epoxy resin.** Z. Paragkamian, N. D. Alexopoulos, P. Poulin and S. K. Kourkoulis, **296-A03-240**

 - 12 **Effect of prior solid solution heat treatment on the mechanical behavior of artificially aged aluminum alloy 2024 specimens.** A. I. Pasoudis, P. Liberaki, A. Kermanidis and N. D. Alexopoulos, **296-A03-241**
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- 13 **Effect of carbon nanotubes addition on the mechanical performance of co-polyimide hollow fiber membranes.** F. D. Gegitsidis, N. D. Alexopoulos, E. P. Favvas and S. K. Kourkoulis, **296-A03-235**

 - 14 **Application of a 3D coupled-mode model to the hydroelastic analysis of very large floating bodies over inhomogeneous seabeds.** Th.P. Gerostathis, K.A. Belibassakis, G.A. Athanassoulis, **165-A03-071**

 - 15 **Energy harvesting from sea waves and currents using oscillating hydrofoils.** K. Belibassakis, Th.P. Gerostathis, E. Filippas, **165-A03-070**

 - 16 **The contribution of Acoustic Emission Signals on the Determination of the Model Fracture Toughness Using CCNBD Marble Specimens.** K. Kaklis, S. Mavrigiannakis, V. Saltas, A. Daskalaki, F. Vallianatos, Z. Agioutantis, **134-A03-052**

 - 17 **The impact of corrosion-induced micro-cracking on the structural integrity of ultra-thin sheets of aeronautical aluminum alloy 2024.** C. M. Charalampidou, N. D. Alexopoulos, P. Skarvelis, C. Dalakouras and S. K. Kourkoulis, **296-A02-237**

 - 18 **Energy management in the domestic sector -Peculiarities and chances in the Greek case.** J. Gelegenis, G. Mavrotas and G. Giannakidis, **149-A03-057**

 - 19 **Embodied energy and embodied CO2 of building constructive materials in a typical Hellenic dwelling.** G. Syngros and D.Koubogiannis, **247-A03-170**

 - 20 **Hydroelastic analysis of VLFS elastically connected to the seabed in shallow wave conditions.** A. E. Karperaki, K. A. Belibassakis, T. K. Papatthanasiou and S. I. Markolefas, **297-A03/244**



Poster Session: Earth & Environmental Sciences

Thursday, 5 November 2015, Time 10.15-19.00

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- 1 **A Shale Brittleness Index Based on Shale Peak Strength and Strain.** Y. Tan, F. Xu, L. Chen, Q. Chen, L. Zhu, L. Wang and W. Nie, **129-A05-023**

 - 2 **Spatio-temporal cluster analysis of seismicity using a modified density-based clustering algorithm.** D. Mountakis, **170-A05-080**

 - 3 **A Non Extensive Statistical Physics view on the spatiotemporal distribution of Earth's seismicity.** K. Chochlaki, F. Valianatos and G. Michas, **190-A05-102**

 - 4 **A non-extensive statistical physics view in Earth Physics from laboratory to planetary scale: A review.** F. Vallianatos, **190-A05-101**

 - 5 **The Hellenic Seismological Network of Crete (HSNC): Monitoring results and the new strong motion network.** G. Chatzopoulos, I. Papadopoulos and F. Vallianatos, **206-A05-122**
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- 6 **Studying Lithosphere-Atmosphere-Ionosphere Coupling at the south front of the Hellenic Arc.** J. P. Makris, B. Zolesi, M. Chiappini, F. Vallianatos, H. Rigakis, M. Smirnov, A. Tzanis, D. Kalisperi, F. Pentaris, V. Saltas, I. Barbounakis, I. Papadopoulos, G. Hloupis, P. Spalla, A. Nardi, L. Spogli, R. Carluccio, E. Zuccheretti, L. Alfonsi, P. Soupios and E. Kokinou, **217-A05-135**

 - 7 **ImProDeProF Project: Recent Advances and New Challenges in the development of the DeProF tentative theory for steady-state two-phase flow in porous media.** M. S. Valavanides, **243-A05-166**

 - 8 **Evidence of accelerating deformation prior to large earthquakes: a case study on the southern Hellenic Arc of Greece.** G. Minadakis, G. Chatzopoulos and F. Vallianatos, **250-A05-174**

 - 9 **Automatic Image Orientation for Accurate Texture Mapping of 3D City Models.** L. Grammatikopoulos, I. Kalisperakis and E. Petsa, **260-A05-187**

 - 10 **Stress and Moment Release Models for Seismic Hazard Assessment in Corinth Gulf.** O. Mangira, G. Tsaklidis and E. Papadimitriou, **264-A05-192**

 - 11 **A MATLAB routine for earthquake epicentre determination using macroseismic data.** V. Kouskouna and G. Sakkas, **265-A05-193**

 - 12 **A homogeneous Mw equivalent earthquake catalog for Greece 1990-2015.** V. Karakostas, E. Papadimitriou and M. Mesimeri, **267-A05-196**

 - 13 **“Earthshield”: An implementation for automatic macro-seismic calculations.** P. Loumpardias, K. Chimos, T. Karvounidis, A. Ganas, C. Douligeris, **269-A05-198**

 - 14 **Small-world property and distinct evolution of complex networks at periods of main shocks from historical earthquake records in Greece.** D. Chorozoglou, D. Kugiumtzis and E. Papadimitriou, **270-A05-199**

 - 15 **Design and Development of Embedded Systems for Precision Agriculture Applications: The Case of Monitoring Dacus Oleae Population and Bait Sprays.** G.N. Fouskitakis, L.D. Doitsidis, H. Rigakis, K. Varikou, I. Sarantopoulos, **273-A05-202**

 - 16 **Aftershock statistics of large earthquakes in Greece.** G. Minadakis, F. Vallianatos and I. Baskoutas, **250-A05-204**

 - 17 **Seismicity Memory Properties in Corinth Gulf (Greece).** C. Gkarlaouni, S. Lasocki and E. Papadimitriou, **277-A05-209**

 - 18 **The joint modeling of earthquake time series using bivariate Poisson Hidden Markov Models.** K. Orfanogiannaki and D. Karlis, **283-A05-216**

 - 19 **Paikon and Tzena terranes (Axios zone, Greece): Can they be correlated?** E. Katrivanos, A. Kiliadis and D. Mountrakis, **190-A05-220**
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Poster Session: Food Science and Technology

Thursday, 5 November 2015, Time 10.15-19.00

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- 1 **Gamma radiation inhibits the production of Ochratoxin A in raisins.**
A. Kanapitsas, A. Batrinou, A. Aravantinos, C. Sflomos and P. Markaki, **132-A09-027**

 - 2 **The application of Magnetic particle for the detection and identification of Staphylococcus aureus and Salmonella enteritidis.**
D. P Houhoula, J, Papaparaskevas, K. Zatsou, N. Nikolaras, H. Malkawi, M.P. Mingeot-Leclercq, S. Konteles, S. Koussisis and E. Charvalos, **195-A09-110**

 - 3 **Effect of dietary supplementation with different bioactive compounds on fatty acids' profile and colour of egg yolks.** D. Z. Lantzouraki, V. J. Sinanoglou, M. Goliomytis, M. Charismiadou, S.G. Deligeorgis and P. Zoumpoulakis, **220-A09-139**

 - 4 **Determination of the probiotic bacterial diversity of breast milk of healthy women by quantitative real-time PCR.** L. Atsaros, N. Genaris, E. Tsakali, V. Kyrana, S. Koussisis, V. Lougovoio, J. Tsaknis and D. P Houhoula, **195-A09-163**

 - 5 **The comparative study of antibacterial activity from edible mushroom Laetiporus sulphureus (Bull.Fr.) Murill from three localities using bioautographic method.** J. Petrović, J. Glamočlija, A. Ćirić, P. Zoumpoulakis, M. Soković, **259-A09-186**

 - 6 **New antioxidant hydroxytyrosol (HT) analogues with potential COX/LOX inhibition.** C. Nixarlidis, C. Semidalas, A. Tzani, A. Detsi, P. Zoumpoulakis, **285-A09-219**

 - 7 **Origanum dictamnus oil vapour suppress the development of Botrytis cinerea in tomato fruit.** A. Stavropoulou, D. Goumas, N. Magan, N. Tzortzakis, K. Loulakakis, **293-A09-231**



Poster Session: Management Science, Finance, Economics & Tourism

Thursday, 5 November 2015, Time 10.15-19.00

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- 1 **Characteristics of Innovative Entrepreneurs in Rural Tourism.**
A. Negrușu, V. Toader, V. Rus and A. Sofică, **131-A10-026**

 - 2 **The reduction of GCI (Global Competitiveness Index) results in the reduction of the GDP (Gross Domestic Product) of a country. Derivation of certain Regression Models based on Greek Economic data for the period 2004-2014.**
C. C. Frangos and K. C. Fragkos, **109-A10-034**

 - 3 **Club Med: A Case Study.**
D. Laloumis, D. Papayiannis, K. Marinakos, A. Laloumis, **232-A10-152**

 - 4 **Emotional marketing in the culinary sector.**
A. Laloumis, D. Laloumis, K. Marinakos, **233-A10-153**
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- 5 **Service quality and crm implementations: keys for excellence in hospitality industry.** S. Melisidou, M. Venetsanopoulou, K. Sergopoulos, **240-A10-161**
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Poster Session: Materials & Micro-nano Technology

Friday, **6 November 2015**, Time 09.00-19.00

- 1 **Effect of Strain Rate on the Tensile Strength of Fused Deposition Modelling Parts.** N. Vidakis, M. Petousis, A. Vairis, K. Savvakis, **121-A04-066**
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- 2 **Cross-fertilizing nanoscience with ideas coming from non-equilibrium thermodynamics.** K. Karamanos, E. Karvelas, N. Lampropoulos and I. Sarris, **156-A04-060**
-
- 3 **The Effect of Hydrothermal Treatment on the Structure and CO₂ Uptake Capacity of CaO-based Sorbents.** D. Baciu, Th. Steriotis, G. Charalambopoulou and A. Stubos, **167-A04-076**
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- 4 **Compact modelling of an interdigitated-electrodes capacitive sensor.** G. P. Patsis, **189-A04-103**
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- 5 **VHDL-AMS modelling of MOSFET gate length variability.** G. P. Patsis, **189-A04-107**
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- 6 **Modelling single-electron tunnelling circuits in VHDL-AMS.** G. P. Patsis, **189-A04-108**
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- 7 **The contribution of analytical methods in the study of iron gall inks found in copy letter.** A. A. Kaminari, **230-A04-150**
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- 8 **Textrodes for on line health monitoring.** G. Priniotakis and D. Tseles, **255-A04-181**
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- 9 **Synthesis of Prenyloxy-coumarin derivatives, evaluation of their bioactivity and encapsulation in biodegradable poly(lactic acid) (PLA) and (lactic-co-glycolic acid) (PLGA) nanoparticles.** E. Kavetsou, L. Gkionis, G. Galani, C. Papaspyridis, S. Vouyiouka, E. Pontiki, D. Hadjipavlou-Litina and A. Detsi, **258-A04-185**
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- 10 **Electron-beam exposure simulation and meptrology on fine-features of VLSI layout-designs.p.** G. P. Patsis and S. F. Galata, **279-A04-212**
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- 11 **Epoxy Resin - Zinc Ferrite Nanocomposites: Development, Thermomechanical Properties, Dielectric Response and Energy Storage.** S. G. Stavropoulos, A. Sanida and G. C. Psarras, **281-A04-214**
-
- 12 **Thermally stimulated discharge current (TSDC) characteristics in PVDF-graphene nanocomposites.** I. Stavrakas, D. Triantis, P. Photopoulos, A. Kanapitsas and C. Tsonos, **105-A04-223**
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- 13 **Electrical conductivity of polyurethane (PU) based fibro-porous membranes.** D. Triantis, I. Stavrakas, C. Anastasiadis and K. Moutzouris, **105-A04-224**
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- 14 **Morphology, Dielectric Properties and Functionality of ZnTiO₃ / Epoxy Resin Nanocomposites.** E.I. Koufakis, T. Velmachos, A.C. Patsidis, G.C.Psarras, **290-A04-227**
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- 15 **The Influence of Hydrothermal Treatment on the Structure and CO₂ Uptake Capacity of a CaO Sorbent Derived from Crab Shell.**
D. Baciou, Th. Steriotis, G. Charalambopoulou and A. Stubos, **167-A04-077**

 - 16 **Barium Ferrite/Barium Titanate/Epoxy Resin Hybrid Nanocomposites: study of properties and functionality.** A. Kanapitsas, C. Tsonos, G. Psarras, Th. Speliotis, **128-A04-073**

 - 17 **Swelling and Plasticization Phenomena of Semi-Crystalline Microfibrillated Cellulose: an Investigation via Dielectric Relaxation Spectroscopy.**
S. X. Drakopoulos, G. C. Psarras and J. Karger-Kocsis, **224-A04-143**

 - 18 **Reduction of Graphene Oxide with aliphatic and aromatic amines for electrically conductive materials.**
V. Belessi, D. Petridis, M. Baikousi, V. Georgakilas and Th. Steriotis, **185-A04-096**

 - 19 **Development and Evaluation of a Flexible Multidirectional Flow Sensor.**
A. Moschos, D. Barmpakos and G. Kaltsas, **226-A04-183**

 - 20 **Morphological and Optical properties of Doped Electrospun Nanofibers.**
M. Enculescu, A. Evangelidis, I. Enculescu, **251-A04-175**
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**Poster Session: Electrical Engineering, Computer Science
& Telecommunications**

Friday, 6 November 2015, Time 09.00 -19.00

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- 1 **Equal Areas Pulse Width Modulation for Voltage Source Inverters and Multilevel Inverters.** F. Paterakis, D. Nafpaktitis, G. Koulouras, M. Darwish and G. Hloupis, **222-A02-141**

 - 2 **Image Processing Techniques and Problems in Traffic Monitoring.** D.E. Ventzas, G. Adam, C. Kokkinos, G. Garani, G. Soultis, G. Evangelidis, A. Mairiotis, **249-A02-173**

 - 3 **Spectrum Efficient Network Selection in Heterogeneous Wireless Networking Environments.** G. T. Karetsos, A. Rouskas and F. Foukalas, **287-A02-222**

 - 4 **Development of a circuitry for the automated control of a Q-switch pulsed Laser making it a useful tool for a variety of applications.**
I. Karachalios, D. Mathes, I. Valais and I. Sianoudis, **227-A02-147**
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Poster Session: Learning/Teaching Methodologies and Assessment

Friday, 6 November 2015, Time 09.00 -19.00

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- 1 **Social Networking: The student's outlook on safety issues, information and efficiency.** P. Prentakis and M. Samarakou, **169-A07-079**

 - 2 **New Educational Tools at TEI of Athens; The case of Spatial Analysis Virtual Laboratory.** J. Kiousopoulos, A. Sfyri, **177-A07-088**
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- 3 **Mining the Log Files of Moodle: Towards Moodle Analytics.**
C. Kytagias, Y. Liomas, T. Livanis, Y. Psaromiligkos, G. Dimakos, **202-A07-117**

 - 4 **Training future entrepreneurs: students' perspectives on entrepreneurship and innovation initiatives.** N. Chatzidiakou, V. Mavrogiorgi and A. Nassiopoulos, **203-A07-118**

 - 5 **Investigation of quality of education in public technical high schools (EPA.L) and its correlation with the modern social-financial situation.**
G. Blassopoulos, P. Karkalousos, **214-A07-176**

 - 6 **"Pirates' Web Adventures": The design and development of a digitally enhanced e-book for teaching English in Greek primary schools.**
F. Peraki and M. Rangoussi, **242-A07-164**
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Poster Session: Life and Health Sciences, Bioengineering

Friday, **6 November 2015**, Time 10.15 -19.00

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- 1 **Mortality modelling using probability distributions.**
P. Andreopoulos and G. F. Bersimis, **151-A06-054**

 - 2 **Cellular study of cell adhesion sites.** P. Petrisi , P. Karkalousos , V. Kostourou, **155-A06-059**

 - 3 **Facile Synthesis and Characterization of Nanostructured Carbonated Hydroxyapatite Microspheres.** D. Baciú, L. Boutsika, Th. Steriotis, G. Charalambopoulou and A. Stubos, **167-A06-075**

 - 4 **The scope of physiotherapy services provided in public icus in Greece: a pilot study.** E. Grammatopoulou, T. N. Charmpas, E. G. Strati, N. Tsamis, A. Evagelodimou, E. Skordilis, **172-A06-083**

 - 5 **Child - obesity programme by improving diet and increasing physical activity to elementary school students aged 11-12 years.** V. Belitsi and K. Pastroma, **188-A06-099**

 - 6 **Technology and Home Health Care.** T. Adamakidou, G. Fouka , A. Kalokairinou, **192-A06-105**

 - 7 **The pathophysiology of ANCA autoantibodies.** T. Nikolakopoulou, K. Masselou, N. Afentakis, P. Karkalousos, **214-A06-137**

 - 8 **Impedance Analysis for Cell Discrimination and Pesticides' Concentration Determination.**
T. Kountanis, G. Paivana, T. Apostolou, S. Kintzios, G. Kaltsas, **272-A06-201**

 - 9 **Translation and validation of the Childbirth Attitudes Questionnaire in Greek.**
C. Gourounti K. Lykeridou, **294-A06-233**

 - 10 **Blood modifications associated with anemia and cardiovascular mortality in end stage renal disease.** H. T. Georgatzakou, M.H. Antonelou, V. L. Tzounakas, A. D. Velentzas, A.C. Kokkalis, I. S. Papassideri, A. G. Kriebardis, **122-A06-067**
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- 11 **Synthesis and Characterization of Porous Hydroxyapatite Ceramic using Poly (ethylene) glycol (PEG) as Organic Template.**
D. Baciou, Th. Steriotis, G. Charalambopoulou and A. Stubos, **167-A06-074**
 - 12 **Green and efficient synthesis of novel bis-(β -dicarbonyl)-methane derivatives catalyzed by Ionic Liquids and deep eutectic solvent.**
A. Tzani, C. Vaitis, E. Sepyrgiotti and A. Detsi, **257-A06-184**
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Poster Session: Applied Physics and Biomedical Engineering

Saturday, 7 November 2015, Time 09.00 -16.00

- 1 **Optical anisotropy investigation based on the variation of light wavelength.**
P. Liaparinos, N. Kalyvas and I. Kandarakis, **126-A01-071**
 - 2 **FEM simulation of SAWs dynamics generated by ns Laser pulses in thin films as a diagnostic of defects in matter.** E. Kaselouris, E. Skarvelakis, Y. Orphanos, M. Bakarezos, M. Tatarakis, N.A. Papadogiannis and V. Dimitriou, **205-A01-121**
 - 3 **Calcium-to-Phosphorus mass ratio determination for breast calcification characterization using dual energy method.** N. Martini, V. Koukou, C. Michail, I. Kandarakis, G. Fountos and G. Nikiforidis, **209-A01-125**
 - 4 **Studying the effect of digitization and quantization in noise power spectra of X-ray medical imaging detectors.** I. Konstantinou, N. Kalyvas, G. Fountos, C. Michail, I. Valais, A. Bakas and I. Kandarakis, **111-A06-047**
 - 5 **A hybrid multi-modal computer-aided diagnostic tool for improving diagnostic accuracy in breast cancer classification.** S. Kostopoulos, D. Glotsos, I. Kalatzis, P. Asvestas, K. Sidiropoulos, P. Ravazoula, and D. Cavouras, **119-A06-064**
 - 6 **Alluminum chlorohydrate interferes with estrogen receptor beta actions.**
V. Gorgogietas, A. Komninou, M. Charalampous, P. Evangelia, A.M. Psarra, **150-A06-053**
 - 7 **Dose and Image Quality evaluation in paediatric radiography.** A. Ladia, S. Skiadopoulos, C. Kalogeropoulou, P. Zampakis, G. Dimitriou and G. Panayiotakis, **158-A06-062**
 - 8 **Identification of Error-Related Observations from Event Related Potentials Using Pattern Recognition Techniques.** E.M. Ventouras, P. Asvestas, A. Korda, S. Kostopoulos, V. Korfiatis, I. Karanasiou, I. Kalatzis and G.K. Matsopoulos, **159-A06-063**
 - 9 **Placebo effects and clinical practice.**
M. G. Papandreou, I. Grammatopoulou, **163-A06-068**
 - 10 **Automated Color-Based Lesion Measurement for Wireless Capsule Endoscopy.**
P. Chrysanthopoulos, D. Chatzis, A. Koulaouzidis and D.K. Iakovidis, **213-A06-131**
 - 11 **Pattern Recognition System Development for the Classification of Prostate Mass Spectrometry Data.** S. Kostopoulos, D. Glotsos, K. Sidiropoulos, P. Asvestas, E. Mikos, G. Sakellaropoulos and I. Kalatzis, **271-A06-200**
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- 12 **Segmentation of skin cancer images using a structured sequence of image processing steps for optimizing decision support consultations in melanoma diagnosis.** S. Kostopoulos, D. Glotsos, P. Asvestas, K. Sidiropoulos, C. Konstantinou, G. Xenogiannopoulos, E.-K. Nikolatou, G. Sakellaropoulos, S. Mantzouratos, K. Perakis and D. Cavouras, **119-A06-229**
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- 13 **Light induced fluorescence and reflectance diagnostic spectroscopic technique in photodynamic therapy of skin cancer.** E. Drakaki, I.A. Sianoudis, M. Makropoulou, N. Merlemis A.A. Serafetinides, Ch. Evangelatos, G. Mitsou, I. Valais, E. Zois, I. Vamvakas, I. Karachalios, D. Mathes, I. Kalatzis, M Kompitsas, E. Christofidou, M. Kosmadaki, I. Stefanaki, C. Dessinioti, A.J. Stratigos, A.D. Katsambas and Ch. Antoniou, **239-A01-160**
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- 14 **Luminescent and scintillation properties of Gd₃Al₂Ga₃O₁₂:Ce (GAGG) crystals under X-ray excitation.** Stratos David, Christos Michail, Ioannis Valais, Nektarios Kalyvas, Ioannis Seferis, Athanasios Bakas, Alexander Gektin and Ioannis Kandarakis, **162-A01-066**
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- 15 **Impact of Mass Preserving Registration in case of interstitial lung disease follow-up in CT.** Georgios Vlachopoulos, Spyros G. Skiadopoulos, Anna N. Karahaliou, Christina Kalogeropoulou and Lena I. Costaridou, **234-A06-154**
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Poster Session: Arts & Humanities

Saturday, **7 November 2015**, Time 09.00 -16.00

- 1 **Polypeptide models of keratin and collagen as a tool for the destruction of works of art.** E. Fotou, E. Panou-Pomonis, E. Ioakeimoglou, E. Malea, G. Panagiaris and M. Sakarellos-Daitsiotis, **186-A01-097**
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- 2 **Paradigm Shift in Innovative Design: Use of Form and Form of Use.**
A. Kouzelis, **118-A08-029**
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- 3 **Technology as a creative factor.** T. Kačerauskas, **147-A08-049**
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- 4 **Experimental design of natural and accelerated bone and wood ageing (Project INVENVORG).** Y. Facorellis, A. Pournou, J. Richter, E. Karantoni, C. Vossou, N. Androutsopoulos and G. Panagiaris, **280-A08-213**
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- 5 **Removing iron corrosion products from museum artefacts: Investigating the effectiveness of innovative green chelators.** S. Rapti, S. Rivers and A. Pournou, **237-A08-158**
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- 6 **On the role and significance of cultural heritage for a positive national identity.**
W. El Saddik, **266-A08-195**
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- 7 **Bioart: Borders and definitions. Visitors' survey at Bioart exhibition.**
S.O. Papaioannou, E. Karantoni, Z. Tsourti, E. Kokkinidou, St. Drakos, N. Panourgia, V. Papakiriakou, G. Panagiaris, Th. Avaritsiotis, **291-A08-228**
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Contact

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