



# **SELECTED TOPICS in ENERGY, ENVIRONMENT, SUSTAINABLE DEVELOPMENT and LANDSCAPING**

**6th WSEAS International Conference on ENERGY,  
ENVIRONMENT, ECOSYSTEMS and SUSTAINABLE  
DEVELOPMENT (EEESD '10)  
3rd WSEAS International Conference on LANDSCAPE  
ARCHITECTURE (LA '10)**

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**Preface**

This year the 6th WSEAS International Conference on ENERGY, ENVIRONMENT, ECOSYSTEMS and SUSTAINABLE DEVELOPMENT (EEESD '10) and the 3rd WSEAS International Conference on LANDSCAPE ARCHITECTURE (LA '10) were held at the Politehnica University of Timisoara, Romania, October 21-23, 2010. The conferences remain faithful to their original idea of providing a platform to discuss environment and sustainable development, indoor air quality in offices and houses, research on natural hazards, renewable energy systems, electrochemistry, solar energy systems, industrial gas turbines and microturbines, energy conservation in industry, thermodynamics of ecosystems, environmental management, natural resources management, mathematical biology, landscape design, land art, earthworks art, playgrounds, landscape architecture and structural issues, conservation and management of ecological areas, soil and agricultural issues, natural resources management, ecological restoration etc. with participants from all over the world, both from academia and from industry.

Their success is reflected in the papers received, with participants coming from several countries, allowing a real multinational multicultural exchange of experiences and ideas.

The accepted papers of these conferences are published in this Book that will be indexed by ISI. Please, check it: [www.worldses.org/indexes](http://www.worldses.org/indexes) as well as in the CD-ROM Proceedings. They will be also available in the E-Library of the WSEAS. The best papers will be also promoted in many Journals for further evaluation.

Conferences such as these can only succeed as a team effort, so the Editors want to thank the International Scientific Committee and the Reviewers for their excellent work in reviewing the papers as well as their invaluable input and advice.

The Editors





## Table of Contents

<b>Plenary Lecture 1: Photovoltaic Sources Efficiency Evaluation in Urban Ecosystems Conditions</b> <i>Mircea Grigoriu</i>	14
<b>Developing Energy-Optimized Photovoltaic Applications using Virtual Instruments</b> <i>D. Dunea, A. Dunea, V. Moise, L. Moise</i>	15
<b>Initial Imperfection Influences on the Structural Behavior of Steel Portal Frames with Variable Cross Sections and some Sustainability Considerations - Case Study</b> <i>I. Mircea Cristutiu, Zsolt Nagy</i>	21
<b>Concept of Sustainable Development in Romanian Tourism Operators' Perception</b> <i>Gratiela Gavrilă, Georgiana Dinca, Andreea Mihaescu, Ana-Maria Ion</i>	33
<b>Analysis of an Enhanced SEIG Model Including Iron Losses</b> <i>Mateo Basic, Dinko Vukadinovic, Dusko Lukac</i>	37
<b>Ecological Evaluation of the Natural Landscape of Fars MARGOON Waterfall in Order to Clarify Methods of Ecological Maintenance of the Bed</b> <i>M. R. Bemaian, Ferial Ahmadi, Alireza Sadeghi, Sara Pour Yoosef Zadeh</i>	43
<b>Use Non-Rotating Adjustable Stabilizer to Optimize a Directional Drilling Plan</b> <i>Eisa Novieri, Sadegh Torfi</i>	50
<b>Loading Strategy for Measuring Relative Humidity and Temperature Gradient for Winter Season in Ventilated Classrooms</b> <i>Sebastian Dorhoi, Ioan Borza, Mihai Cinca</i>	57
<b>Modeling and Optimization of a Natural Gas Pressure Reduction Station to Produce Electricity using Genetic Algorithm</b> <i>Sepehr Sanaye, Amir Mohammadi Nasab</i>	62
<b>Park in Sulistrowiczki – its Meaning in the Cultural Landscape of Poland</b> <i>Renata Gubanska, Janusz Gubanski</i>	71
<b>The Performance's Improvement of the Collecting Systems from Wells</b> <i>Aurora Alexandrescu</i>	77
<b>The Compensator's Calculation for the Pipe in Complex Systems</b> <i>Aurora Alexandrescu</i>	83
<b>Use of Multi-Criteria Decision Analysis for Choosing an Optimal Location for a Wood Fuel based Cogeneration Plant: A Case Study in Estonia</b> <i>Anna Volkova, Eduard Latosov, Andres Siirde</i>	89
<b>Respiratory Health Effects of Air Pollution and Climate in an Exposed Population: Long- and Short- Term Study</b> <i>Cristina Petrescu, Oana Suci, Romanita Ionovici, Olf Herbarth, Ulrich Frank, Uwe Schlink</i>	95

<b>Power System Harmonic Pollution Limitation Using Fuzzy Logic Controlled Active Filters</b>	101
<i>Lucian Gherman, Surianu Flavius Dan, Stela Rusu – Anghel, Sergiu Mezinescu</i>	
<b>A Holistic Vision Concerning the Revitalization of Historical Centres for Countries which Transit from a Socialist Economy Towards the Free Market Economy</b>	109
<i>Ana-Maria Branea, Radu Radoslav, Marius Gaman, Tudor Morar</i>	
<b>Advanced System for the Control of Work Regime of Railway Electric Drive Equipment</b>	115
<i>Stela Rusu – Anghel, Ion Garnita, Ion Gavrilă, Caius Panoiu, Manuela Panoiu, Sergiu Mezinescu</i>	
<b>The Renewal of Public Spaces as an Instrument of Urban Regeneration in Local Communities of Timisoara</b>	121
<i>Radoslav Radu, Cosoroaba-Stanciu Elisabeth</i>	
<b>Researches and Results Regarding the Antihail System from Romania</b>	127
<i>Laurentiu Alboteanu, Constantin Sulea, Gheorghe Manolea</i>	
<b>A Graph Model for Optimization of Materials Selection Applied in Manufacturing of Heating Elements</b>	134
<i>Aurel Raduta, Cosmin Locovei, Mircea Nicoara, Cosmin Gruescu</i>	
<b>Numerical Techniques Used in Characterization of Biomaterials</b>	140
<i>Aurel Raduta, Mircea Nicoara, Aurel Tulcan, Cosmin Locovei</i>	
<b>Contributions to Optimization of Properties for Components Fabricated by Mean of Selective Laser Sintering from Composed Materials</b>	146
<i>Laurentiu Cucuruz, Mircea Nicoara, Aurel Raduta, Cosmin Locovei, Eric Labbe</i>	
<b>Valorization of Powdery Ferrous Wastes in the Context of Sustainable Development</b>	153
<i>Ana Socalici, Teodor Heput, Erika Ardelean, Marius Ardelean</i>	
<b>Researches Regarding the Obtaining of Active Slag by Using Reactive Admixtures Produced from Ferrous and Basic Scrap</b>	158
<i>Socalici Ana, Heput Teodor, Ardelean Erika, Ardelean Marius</i>	
<b>Changes in Water Quality in the Lakes Along Colentina River under the Influence of the Residential Areas in Bucharest</b>	164
<i>Cristian Ioja, Diana Onose, Adina Cucu, Luminita Ghervase</i>	
<b>Bulk Amorphous Metal Products - Technological Solutions for Obtaining of Miniaturized Components</b>	170
<i>Viorel-Aurel Serban, Cosmin Codrean, Dragos Utu, Dragos Buzdugan</i>	
<b>Technological Solutions to Reduce Energy Consumption by Obtaining of Advanced Brazing Alloys</b>	176
<i>Viorel-Aurel Serban, Cosmin Codrean, Dragos Utu, Cristian Stoian</i>	
<b>Simulation of Operating States and Characteristics of Heat Pumps</b>	182
<i>Petr Mastny, Lukas Radil</i>	
<b>Obtaining of High Performance WC-CoCr Cermet Coatings. Alternative Ecological Spraying Methods at Reduced Power Levels</b>	188
<i>V. A. Serban, C. Codrean, D. Utu, I. Hulka</i>	

<b>Mixing Materials Process during FSW of 5754 Al Alloy</b> <i>Bogdan Radu, Radu Cojocaru</i>	194
<b>Rapid Prototyping for a Microinjection Molding Die</b> <i>D. Rotar, C. Cosma, V. Tut, I. Serban</i>	198
<b>Impacts of Large-scale Integration of Wind Power on the Design and GHG Emissions of the Global Power System</b> <i>Tino Aboumahboub, Peter Tzscheutschler, Maximilian Kuhne, Ulrich Wagner</i>	204
<b>Energy Efficiency Regulations Taking Action in Estonia</b> <i>Erkki Seinre, Hendrik Voll</i>	211
<b>Romanian Tourist Offer between Desideratum and Sustainable Development</b> <i>Andrei Toma, Felicia Dumitru, Dorina Tanasescu, Madalina Barna</i>	216
<b>A Survey about the Role of Geometry in Iranian Landscape Architecture</b> <i>Mojir Jalilian</i>	220
<b>Geographical Relations Dynamics (6) - Hell to Limbo via Economic Growth -</b> <i>Minoru Ueda</i>	225
<b>Theoretical Development of a Simplified Electronic Fuel Injection System for Stationary Spark Ignition Engines</b> <i>Adrian Irimescu</i>	231
<b>Energy Saving Opportunities Related to the Size Reduction for the First Break, in the Wheat Milling, with a New Designed Micromill</b> <i>Cristina Danciu, Ioan Danciu</i>	237
<b>Traditional Akseki Houses as a Regional Architecture in Turkish Meditarrenean</b> <i>R. Eser Gultekin, Aydin Ucar</i>	241
<b>Modern Energy Distribution Management Modules with Focus on Electrical Energy Resources in Industries and Lifecycle</b> <i>Mohammad Reza Daneshmand Malayeri</i>	248
<b>Factors Affecting Site Remediation of Diesel Contaminated Soils using Surfactants</b> <i>A. K. Darban, H. Ganjidust, E. Salehian</i>	253
<b>A Predictive Current Control Technique in a Stand Alone Hybrid Power System Based on Photovoltaic, Fuel Cell and Battery</b> <i>M. Karami, S. Lesan</i>	260
<b>A New Approach for Carbon Monoxide Measurement using Virtual Instrumentation</b> <i>Patricia Gherban Draut, Raul Ionel, Aurel-Stefan Gontean, Ioana Ionel</i>	267
<b>Spectroscopic and Physico-Chemical Evaluation of Lentic Ecosystems from Bucharest City</b> <i>Luminita Ghervase, Cristian Ioja, Elfrida M. Carstea, Dan Savastru, Gabriela Pavelescu, Mihai Nita, Lidia Niculita</i>	272
<b>SEM Investigations Regarding Bacterial Infections in Cyprinus Carpio</b> <i>Irina Gostin, Anca Narcisa Neagu, Vasile Vulpe</i>	278

<b>A Feasibility Study of PV/Thermal Solar System with Multiple Stock Raising Applications</b>	283
<i>Ioan Luminosu, Laurentiu Fara, Nicolina Pop, Robert Maria</i>	
<b>Detuned Filters for Power Factor Correction of Adjustable Speed Drives</b>	288
<i>Mihai Deliu, Alexandru Hedes, Ioan Sora</i>	
<b>Introduction of Automatic Meter Reading Systems in Electro-Distribution Zrenjanin</b>	294
<i>Lilijana Dukic Petromanjanc, Dumitru Mnerie, Gabriela Mnerie</i>	
<b>Analytical Models for Characteristic Curves of Wind Turbines</b>	298
<i>Mircea Barglazan, Teodor Milos</i>	
<b>Remote Monitoring of Intelligent Buildings Parameters</b>	301
<i>Nicolae Muresan, Bogdan Orza, Aurel Vlaicu</i>	
<b>Considerations Concerning the Effects of Rubberized Asphalt on Decreasing the Phonic Pollution in Urban Environment</b>	311
<i>Vasile Bacria, Nicolae Herisanu</i>	
<b>Influence of Welded Layers Thickness on the Cavitation Erosion Resistance</b>	316
<i>Doina Frunzaverde, Constantin Viorel Campian, Vasile Cojocar, Gabriela Marginean, Marian Baran, Relu Ciubotariu</i>	
<b>Magnetic Fluid as Cooling and Insulation Medium for High Power Transformers</b>	321
<i>M. Timko, P. Kopcansky, K. Marton, L. Tomco, S. Holotescu, F. Stoian, L. Vekas</i>	
<b>The Impact of the Mining Activities over the Environment</b>	327
<i>Laura Golosie, Mircea Golosie</i>	
<b>Assessment of Perbadanan Putrajaya Office Ground based on Urban Open Space Design Guideline</b>	331
<i>Y. C. Yap, I. Ms. Usman, Mm. Tahir, Is. Z. Abidin</i>	
<b>Characteristic of Attractive Square as Public Space: Putra Square, Putrajaya</b>	338
<i>Is. Z. Abidin, I. Ms. Usman, Mm. Tahir, Y. C. Yap</i>	
<b>Waterfront as Public Space Case Study; Klang River between Masjid Jamek and Central Market, Kuala Lumpur</b>	344
<i>S. Shaziman, I. M. S. Usman, Mm. Tahir</i>	
<b>Technical Analysis of an Integrated Anaerobic Digester-Solid Oxide Fuel Cell System</b>	350
<i>Orlando Corigliano, Gaetano Florio, Petronilla Fragiacom</i>	
<b>Redefining Critique Methods as an Assessment Tools in Architecture Design Studio</b>	359
<i>Nangkula Utaberta, Badiossadat Hassanpour, Ims Usman</i>	
<b>Role of High Performance Concrete In Sustainable Construction: A Review on High Performance Concrete Mix Design Expert System</b>	365
<i>M. Jamil, M. F. M. Zain, I. M. S. Usman, M. K. A. M. Sulaiman</i>	
<b>Observations on the Improvement of the Blades for Small Horizontal Wind Turbines</b>	372
<i>Eugen Dobanda</i>	
<b>Hydroelectric Compenents Modeling and Simulation</b>	375
<i>Mircea Grigoriu, Nikos Mastorakis, Jean-Octavian Popescu</i>	

<b>Photovoltaic Sources Efficiency Evaluation in Urban Ecosystems Conditions</b> <i>Mircea Grigoriu, Liliana Preda, Dinu Doina Cornelia</i>	382
<b>Monitoring Parameters of Environmental Safety and Quality in Brownfields Sites in Romania</b> <i>Nan Marin Silviu, Dunca Emilia, Stegaru Parvu Dana, Parvu Anisor, Grigorie Petre</i>	387
<b>The Landscape from the Sacred Garden to the Urban Landform</b> <i>Ioan Andreescu, Vlad Gaivoronschi</i>	393
<b>Experimental Research on Electromagnetic Disturbance Level in a Thermoelectric Power Station</b> <i>Ioan Felea, Calin Secui, Emil Goia, Dan Florin</i>	399
<b>Thermoplastics Extrusion Die with Ultrasonic Thermo-Pellicular Effect</b> <i>Daniel Stan, Iancu Serban, Liliana Tulcan, Cristian Turc, Aurel Tulcan</i>	404
<b>Competence in Engineering, between Enabling and Practice</b> <i>Catalin Daniel Galatanu</i>	409
<b>Modelling of a Carbon Capture and Storage System for the Latvian Electricity Sector</b> <i>Julija Gusca, Irina Naroznova, Dagnija Blumberga, Anna Volkova</i>	415
<b>Data Acquisition System for a Vertical Axis Wind Turbine Prototype</b> <i>C. Koch-Ciobotaru</i>	422
<b>The Influence of Wind Speed Variation on Maximum Power of a Wind Turbine System</b> <i>O. Gana, M. Babescu, R. Boraci, M. Greconici</i>	428
<b>Single-Phase Two Stator Windings Induction and Permanent Magnet Synchronous Generators</b> <i>N. Budisan, O. Prostean, R. Boraci, C. Koch-Ciobotaru</i>	433
<b>The University Development Planning from the Aspects of Accessibility and Circulation: A Comparative Study of Four Malaysian Universities</b> <i>Mohd-Nor M. F. I., M. Zulhanif A. Razak, I. M. S. Usman, A. I. Che-Ani, N. A. G. Abdullah, M. M. Tahir</i>	438
<b>Study of Pollution Processes in the Area Adjacent Ash Heap Utvin</b> <i>Mihaela Violeta Bakos</i>	442
<b>Electric Power Quality Monitoring and Analysis at a Tri-Generation Plant under Development</b> <i>Ioana Pisica, Laurentiu Constantin Lipan, Petru Postolache, Cornel Toader, Gheorghe Comanescu, Dan Constantin Dasu</i>	446
<b>Authors Index</b>	452

## Plenary Lecture 1

### Photovoltaic Sources Efficiency Evaluation in Urban Ecosystems Conditions



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**Abstract:** The paper presents a study of the urban microclimate characteristics on the photovoltaic sources efficiency. Considering the actual interest for the renewable sources application in European Union and in the world, involving important financial efforts, the study continue with an economic component, focused to the bankability of the concrete investments projects. There are considered different photovoltaic equipments, operating in standardized and in field conditions. The conclusions are based on computer simulations and supported by measurements in the laboratory of the Hydraulic, Hydraulic Machineries and Environmental Engineering of the University Politehnica Bucharest. The results offer a clear picture of the real efficiency of photovoltaic equipments exploited in practical situations, and can be applied for a correct evaluation of renewable sources potential evaluation and planning.

**Brief Biography of the Speaker:**

Mircea Grigoriu is assistant professor of Department of Energy and Environmental Engineering, University POLITEHNICA of Bucharest, Romania, where he is also the coordinator of the Hydraulic Machineries Laboratory and director of the Romanian Cleaner Production Center. His main research interests concern Pumping systems energy efficiency and the energy savings and environmental impact; Pumping systems design, operation, automatics, diagnostics and protection; Climate changes assessment; Management systems. In these fields, he authored or co-authored over 50 scientific papers published in reviewed journals or presented at international conferences. He was minister of Environment counselor, national focal point of the UNFCCC of Romania and now is listed in the Roster of experts of UNFCCC. He is technical counselor of important pumping equipments producers. He is a redactor at the Energetica Journal edited by the National Energy Producers Association (IEA), representing Eurelectric in Romania.

## Authors Index

Abdullah, N. A. G.	438	Darban, A. K.	253	Heput, T.	153
Abidin, I. Z.	331, 338	Dasu, D. C.	446	Herbarth, O.	95
Aboumahboub, T.	204	Deliu, M.	288	Herisanu, N.	311
Ahmadi, F.	43	Dinca, G.	33	Holotescu, S.	321
Alboteanu, L.	127	Dobanda, E.	372	Hulka, I.	188
Alexandrescu, A.	77, 83	Dorhoi, S.	57	Ioja, C.	164, 272
Andrescu, I.	393	Draut, P. G.	267	Ion, A.-M.	33
Anisor, P.	387	Dumitru, F.	216	Ionel, I.	267
Ardelean, E.	153	Dunea, A.	15	Ionel, R.	267
Ardelean, M.	153	Dunea, D.	15	Ionovici, R.	95
Babescu, M.	428	Elisabeth, C.-S.	121	Irimescu, A.	231
Bacria, V.	311	Emilia, D.	387	Jalilian, M.	220
Bakos, M. V.	442	Erika, A.	158	Jamil, M.	365
Baran, M.	316	Fara, L.	283	Karami, M.	260
Barglazan, M.	298	Felea, I.	399	Koch-Ciobotaru, C.	422, 433
Barna, M.	216	Florin, D.	399	Kopcansky, P.	321
Basic, M.	37	Florio, G.	350	Kuhne, M.	204
Bemaian, M. R.	43	Fragiacomo, P.	350	Labbe, E.	146
Blumberga, D.	415	Frunzaverde, D.	316	Latosov, E.	89
Boraci, R.	428, 433	Gaivoronschi, V.	393	Lesan, S.	260
Borza, I.	57	Galatanu, C. D.	409	Lipan, L. C.	446
Branea, A.-M.	109	Gaman, M.	109	Locovei, C.	134, 140, 146
Budisan, N.	433	Gana, O.	428	Lukac, D.	37
Buzdugan, D.	170	Ganjidust, H.	253	Luminosu, I.	283
Campian, C. V.	316	Garnita, I.	115	Manolea, G.	127
Carstea, E. M.	272	Gavrila, G.	33	Marginean, G.	316
Che-Ani, A. I.	438	Gavrila, I.	115	Maria, R.	283
Cinca, M.	57	Gherman, L.	101	Marius, A.	158
Ciubotariu, R.	316	Ghervase, L.	164, 272	Marton, K.	321
Codrean, C.	188	Goia, E.	399	Mastny, P.	182
Codrean, C.	170, 176	Golosie, L.	327	Mastorakis, N.	375
Cojocar, R.	194	Golosie, M.	327	Mezinescu, S.	101, 115
Cojocar, V.	316	Gontean, A.-S.	267	Mihaescu, A.	33
Comanescu, G.	446	Gostin, I.	278	Milos, T.	298
Corigliano, O.	350	Greconici, M.	428	Mnerie, D.	294
Cornelia, D. D.	382	Grigorie, P.	387	Mnerie, G.	294
Cosma, C.	198	Grigoriu, M.	375, 382	Mohd-Nor, M. F. I.	438
Cristutiu, I. M.	21	Gruescu, C.	134	Moise, L.	15
Cucu, A.	164	Gubanska, R.	71	Moise, V.	15
Cucuruz, L.	146	Gubanski, J.	71	Morar, T.	109
Dan, S. F.	101	Gultekin, R. E.	241	Muresan, N.	301
Dana, S. P.	387	Gusca, J.	415	Nagy, Z.	21
Danciu, C.	237	Hassanpour, B.	359	Naroznova, I.	415
Danciu, I.	237	Hedes, A.	288	Nasab, A. M.	62
Daneshmand Malayeri, M. R.	248	Heput, T.	158	Neagu, A. N.	278

Nicoara, M.	134, 140, 146	Salehian, E.	253	Tomco, L.	321
Niculita, L.	272	Sanaye, S.	62	Torfi, S.	50
Nita, M.	272	Savastru, D.	272	Tulcan, A.	140, 404
Novieri, E.	50	Schlink, U.	95	Tulcan, L.	404
Onose, D.	164	Secui, C.	399	Turc, C.	404
Orza, B.	301	Seinre, E.	211	Tut, V.	198
Panoiu, C.	115	Serban, I.	198, 404	Tzscheutschler, P.	204
Panoiu, M.	115	Serban, V. A.	188	Ucar, A.	241
Pavelescu, G.	272	Serban, V.-A.	170, 176	Ueda, M.	225
Petrescu, C.	95	Shaziman, S.	344	Ulrich, F.	95
Petromanjanc, L. D.	294	Siirde, A.	89	Ulrich, W.	204
Pisica, I.	446	Silviu, N. M.	387	Usman, I.	359
Pop, N.	283	Socalici, A.	153, 158	Usman, I. M.	331, 338
Popescu, J.-O.	375	Sora, I.	288	Usman, I. M. S.	344, 365, 438
Postolache, P.	446	Stan, D.	404	Utaberta, N.	359
Preda, L.	382	Stoian, C.	176	Utu, D.	188
Prostean, O.	433	Stoian, F.	321	Utu, D.	170, 176
Radil, L.	182	Suciu, O.	95	Vekas, L.	321
Radoslav, R.	109	Sulaiman, M. K. A. M.	365	Vlaicu, A.	301
Radu, B.	194	Sulea, C.	127	Volkova, A.	89, 415
Radu, R.	121	Tahir, M.	331, 338, 344	Voll, H.	211
Raduta, A.	134, 140, 146	Tahir, M. M.	438	Vukadinovic, D.	37
Razak, M. Z. A.	438	Tanasescu, D.	216	Vulpe, V.	278
Rotar, D.	198	Timko, M.	321	Yap, Y. C.	331, 338
Rusu-Anghel, S.	101, 115	Toader, C.	446	Yoosef Zadeh, S. P.	43
Sadeghi, A.	43	Toma, A.	216	Zain, M. F. M.	365