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FACULTY OF COMPUTER SCIENCE FOR BUSINESS MANAGEMENT



The 1st International Conference "Economics and Information Technology-e-Society Knowledge and Innovation"



Conference Program
26 - 27 september

Organized with the support of ANCS



About The Romanian - American University



Ion SMEDESCU Ph.D., Founding President

The Romanian-American University is part of the Romanian-American Foundation for the Promotion of Education and Culture, having as a purpose the promotion of the educational values of the American high education on the background of the rich traditions of the Romanian education which are internationally recognized.

Within the context of the University reform and of Romania's integration process in the European Union, the introduction of the European dimension, matching of the curricula, the compliance with the European standards, promotion of the academic performance criteria internationally recognized, the interuniversity cooperation, academic mobility and the recognition of the studies and diplomas are among the **strategic objectives** of the Romanian-American University.

We have taken important steps that have allowed us to present a different type of educational offer on the market of educational services, by adopting a system based on two levels: license and master.

I want all our students and teaching staff to be proud of being part of the academic community of the Romanian-American University, and our graduates to contribute, through integrity and professional competence, to the development of the prestige of our institution in our country and abroad.

SECTION 4 Digital Finance, Banking and Management: Methodologies and Technologies

Chair:

prof. univ. dr. Maria Moise prof. univ. dr. Virgil Chichernea

- 1. A. Altăr Robust Monetary Policy
- 2. L. C. G. Budacia, E. A. Budacia **Techniques for audit assisted by computer**
- 3. M. Coancă Persuasive Communication in Business
- C. Mihălcescu, B. Ciolacu, F. Pavel, C. Titrade Risk and Innovation in e-Banking
- 5. M. Preda "Global" Diversity Management: The Case of Automobile Manufacturing Companies in Japan
- 6. M. Preda Globalization and the Rise of Multinational Corporations
- 7. G. Săvoiu, I. Iorga-Simăn Sociophysics: A New Science or a New Domain for Physicists in a Modern University?
- 8. G. Săvoiu, I. lorga-Simăn Some Relevant Econophysics'

 Moments of History, Definitions, Methods, Models and New
 Trends
- 9. F. Măgureanu, G. Măgureanu Information Technology
 Applications in the Judiciary Evidence System
- 10. P. van der Hoek Corruption and Taxation in the New European Union Member States

SECTION 3 Modeling and Simulation

Chair:

conf. dr. Cezar Botezatu conf. dr. Daniela Crisan

- 1. M. E. Ciortea Petri Net Based Approaches to Manufacturing
 Systems
- 2. C. Coculescu Mathematic Modeling and Its Role in Operational Research
- 3. C. Coculescu Features Concerning Competitive Performance

 Measurement
- 4. L. V. Constantin Physics-an efficient solution for an extremely important problem of now days: electric energy
- 5. L. V. Constantin The study of the light interference with the aide of the digital technology
- 6. M. Gruiescu, O. E. Dobre The Hachemeister's Algorithm for Heterogenous Portofolios
- 7. O. Solomon, C. Pricină Time Delays and the Underwriting

 Cycle
- 8. M. Zaharia, I. Zaheu, E. R. Stan The Evolution of SNP Petrom Stock List – Study Through Autoregressive Models
- 9. M. Botezatu Models for Labor Force Analysis

About The Faculty of Computer Science for Business Management



From the beginning 1991, its educational plans, its analytical programs and the whole educational and scientific research system were permanently updated in compliance with the IT society and the job market requirement in Romania and the developed countries.

Which are the Faculty of Computer Science for Business Management strong points by comparison with other economic faculties?

hthe certainty of finding a job on the work market, there is an obvious request for specialists in the IT domain, request that will continue in the future;

h the recognition on the international market: through the acquired skills and knowledge, the faculty graduates can target the working offer in the IT domain at companies allover the country and occidental countries, as well as in foreign companies established in our country;

the actual relation with the practice and the current and future requirements from an IT specialist in economic applications domain;

The subjects of study taught at this faculty target the most dynamic sector of economic IT, generally and of managerial IT especially giving to the future graduates the opportunity to participate in A direct way to the economy restructuration, the reform and European integration and North-Atlantic structure. The knowledge acquired facilitates the economic phenomena and interpretation and optimization processes, insuring the needed training to elaborate studies and forecasts concerning the real economy.

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SECTION 2 Business Software Applications Chair:

conf. dr. George Caruţaşu conf. dr. Costel Emil Coteţ

- 1. V. Chichernea The Application of Computational Management Game Metodology to Graduate Business Education
- 2. S. M. Ilie, C.V. Turcas Study Hydrocarbons Using the Technology On-line
- 3. S. M. Ilie, C. Pavel E-Learning Platform The Dynamics of Mills Used in the Construction Materials Industry
- 4. S. M. Ilie, A. Neacşu E-Learning Techniques for Presenting Courses Romanit a Distinct Species of Amber
- 5. A. Lado Asynchronous E-learning
- 6. C. Mihălcescu, D. Firoiu Virtual Education
- 7. M. Moraru E-Commerce
- 8. A. Pârjan, D.M. Petrosanu A Comparison of the Most Popular Electronic Micropayment Systems
- 9. A. Pârjan, D.M. Petrosanu **Dematerialized Monies New Means of Payment**
- 10. A. M. Tudorache Data mining and the process of taking decisions in e-business
- 11. A. Velicanu Integrating CRM software applications
- 12. V. Vladucu ERP (Enterprise Resource Planning)
- 13. A.Preda, D.A. Crisan, L.J. Stanica, A.N. Altar Samuel Implementing e-Learning in the Romanian Educational System A Priority in the Context of EU Integration
- 14. C.L. Popa, L.F. Parpală Validating Cooperative Systems Simulation and Remodeling for Pump Cover Design and Manufacturing in a Virtual Enterprise
- 15. G.S. Drăgoi, C.R. Parpală, C.E. Coteţ, G. Pătraşcu A Business Process Management Approach in Virtual Enterprise Networks
- 16. G.B. Nica, R.C. Parpală Using CPI Relevant Profiles in the Human Resources Management for the Multifunctional Enterprises Arhitectures

SECTION 1 Information Technology

Chair:

prof. univ. dr. Cornelia Paulina Botezatu prof. univ. dr. Ion Lungu

- 1. C. Bârcă, C. Bârcă Introduction in RDS System
- 2. L. Bornaz Data Indexing Algorithms
- 3. C. Botezatu, C. Bârcă Intelligent Vehicle Safety Systems- eCall
- 4. L. C. G. Budacia, E. A. Budacia Business versus Electronic Business
- 5. C. P. Botezatu, G. Căruţaşu Strategies on Software Integration
- 6. B. Crengua Concern-oriented and Ontology-based Modular Architectural Design of Software Systems
- 7. V. Diaconita, I. Lungu TCP/IP XML Solution
- 8. A. Enăceanu SEO Techniques for Business Websites
- 9. G. Garais Manual and Automated Content Interlinking in a dynamic webpage
- 10. F. D. Grafu, C. Leovaridis Innovative solutions for implementation of new types of organizations in Intelligent Transport Systems
- 11. I. lacob UML 2.0 Notation for Modeling Real Time Task Scheduling
- 12. I. lacob Extreme Programming and Rational Unified Process Contrasts or Synonyms?
- 13. A. C. Joiţa Introduction to Adobe Air
- 14. A. C. Joiţa Introduction to Adobe Flex
- 15. G. Marin **Decision Support Systems**
- 16. D. Pop Introducing Microsoft Silverlight
- 17. D. Pop Introduction to ZEND Framework
- 18. S. M. Roşu, M. Guran Ten Steps to Increase the Knowledge for an Efficient Management of the Intellectual Capital in the Enterprise Business Intelligence
- 19. E. D. Seleţchi Medical Image Processing using MATLAB
- 20. E. D. Seleţchi Brain Imaging Software

EDITOR'S NOTE:

This collection of papers constitutes the proceedings of the 1st International Conference on Applied Informatics in Economy and Information Technology held in Bucharest, Romania during the 26-27th September 2008 and organized by The Romanian-American University in Bucharest with the support of ANCS. The conference is hosted in the campus of the Romanian-American University.

The scope of the conference covers the following topics: information and communication technologies; e-learning; decision support systems; virtual organizations; database management systems; system design methods, techniques and tools; client-server applications; distributed applications; design standards; new requirenments in system design; new forms of business and management systems; automated data processing security; Internet and services.

All papers were accepted and published in this book, after a severe peer-review process. The papers cover a broad spectrum of Information Technology topics and are organized in four main streams.

The Scientific Committee gratefully acknowledges all authors who submitted papers for their efforts.

We would like to thank the members of the Scientific Committee, the additional reviewers and members of the Organizing Committee for their work and support.

We would like to express our gratitude for their support to:

- ? MICROSOFT Romania, Microsoft | Innovation Center
- ? NOVENSYS
- ? INFORTIS Center of Research, Consultancy and Training in Economic Informatics and Information Technology, Romanian-American University
- ? CCTIC&IA Center of Research in Information, Communication and Artificial Inteligence Technology, Romanian-American University
- ? PREMINV Center of Research, Consultancy and Training for Virtual Industrial Enterprises Management, University Politechnica of Bucharest

Conference Program

Day 1

Day 1	
9.30 - 10.00	Registration
10.00 - 11.30	Plenary Session
11.30 - 11.45	Coffee Break
11.45 - 13.15	Plenary Session
13.15 - 14.00	Lunch Break
14.00 - 15.30	Section Sessions
15.30 - 15.45	Coffee Break
15.45 - 17.00	Section Sessions
Day 2	
9.30 - 11.00	Discussions based on the presented papers
11.00 - 11.15	Coffee Break
11.15 - 13.00	Conclusions, evaluation, proposals

Scientific Committee

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Invited Papers

- 1. F. O. Bîlbîie Delegating Optimal Monetary Policy Inertia: Inflation, Output Gap Growth or Nominal Income Growth Targeting?
- 2. G. Căruţaşu, Cornelia Botezatu, Cezar Botezatu Triangle of innovation in IT industry
- 3. V. Chichernea Competitive Advantage by Integrated ERP-Adonis in Master Programmes Curricula
- 4. L. Evans, A. Nicolae The Output Effect of Stopping Inflation when Velocity is Time Varying
- 5. M. Moise, V. Popa Types of methods and researches used in e-government systems/applications
- 6. A. Preda, A. Preda Business Intelligence Challenge
- 7. I. Roşu Liquidity and Information in Order Driven Markets
- 8. A. Spiru Inflation Convergence in Central and Eastern European Economies
- 9. C. Cotet Discrete Material Flow Management in Industrial Engineering