

# **FACULTY OF MANAGEMENT IN PRODUCTION AND TRANSPORTATION**



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## RESEARCH CENTRE IN ECONOMIC ENGINEERING – CCIE

### GENERAL PRESENTATION

The Research Centre in Economic Engineering (Centrul de Cercetare în Inginerie Economică-CCIE) was founded in 2001.

The main aim of the Research Centre in Economic Engineering (CCIE) is to develop interdisciplinary high-level research in the fields of performance management for firms and clusters, technical and production systems engineering, the market economy development in Romania, the progress of transition, financial management in Romania. It offers the research results in these fields to the interested production and transportation companies and organisations. CCIE is a member of the Romanian Economic Engineering Consortium (28 Romanian Universities).

The location of the CCIE is in the Faculty of Management in Production and Transportation, ROMANIA, 300191 Timisoara, 14, Remus Str.

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The Centre in Economic Engineering (CCIE) is organised in several research divisions:

- Research Division in Performant Management for Firms and Clusters
- Research Division for Technical and Production Systems Engineering
- Research Division for Financial Management

### RESEARCH DIVISION IN PERFORMANT MANAGEMENT FOR FIRMS AND CLUSTERS

#### CONTACT:

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### RESEARCH FIELDS

- integrated competitiveness and value management
- performance marketing
- management information systems
- project management

- risk management
- sustainable management
- cluster's management
- total quality management
- production management

### KEYWORDS

firms, clusters, competitiveness, management, marketing, quality, risk, sustainability, industrial production, civil engineering production, information systems

### MAIN ACTIVITIES

- development of new integrated methods in management and marketing
- optimal integrated technologies and management
- consulting in management and marketing

### RESEARCH PROJECTS

1. Partnership for research excellence in developing entrepreneurial skills and competitive human capital in the economy and society based on knowledge and innovation, Nr. 91-069 / 10.14.2007, The State Budget - Ministry of Education, Research and Youth.

Value: 191.547 Lei

Value UPT 2010: 32.613 Lei

Director: Prof.dr.eng. Monica Izvercian

Research team:

Prof.dr.eng. Anca Draghici

Assoc.prof. dr.eng. Adrian Pugna

Lecturer dr.eng. Gabriela Negru-Strauti

Lecturer dr.eng. Monica Tion

Lecturer dr.eng. Matei Tamasila

Lecturer dr.eng. Ilie Taucean

2. Comparative study regarding the training needs for development of entrepreneurial competences in the context of E.U. post integration, 451CB/ 11.10.2010, PN2/Cooperare Bilaterală, ANCS,

Period: 2010-2012

Value: 20.500 Lei

Value UPT 2010: 3.271 Lei

Director: Lecturer dr.eng. Matei Tamasila

Research team:

Lecturer dr.eng. Ilie Taucean,

Assoc.prof. dr.eng. Adrian Pugna

Lecturer dr.eng. Gabriela Negru-Strauti

Assist. Drd. Cella Buciuman(Vacarescu)

3. Comparative research regarding the knowledge management in Romanian Engineering Education Organization, (UNIKM), Contract nr. 92-074/ 2008, PNII, proiect PC, ANCS

Value 2008-2010: 186.400 Lei  
Value UPT 2010: 23.500 Lei

Director: Prof.dr.eng. Drăghici Anca  
Research team: Prof.dr.eng. Drăghici George  
Prof.dr.eng. Izvercianu Monica  
Prof.dr. Duran Vasile  
Assoc.prof.dr. Cociu Nicolae  
Assist.dr. Vartolomei Mihaela  
Assist.dr. Duran Dan  
Assist.drd. Foldvary Kinga  
Corban Delia

## PUBLICATIONS

### BOOKS

1. Tăroată Anghel, Tămășilă Matei, Florențiu Staicu, Vasile Rușeț, Tăucean Ilie Mihai, *Marketing Management*, Ed. Politehnica Timișoara, 2010, ISBN 978-606-554-080-4, 377 pages (published in Romanian)
2. Popa Horia Liviu, Mocan M., Izvercianu M., Pater R. L., *DAAAM International Scientific Book* 2010, Vol. 9, Chapter 19: *Clustering and clusters*. A systemic approach, pp. 177-194, 18 pages, DAAAM International Publishing, Vienna, Austria, 2010, ISBN 978-3-901509-74-2
3. Popa Horia Liviu, Iovescu M., *Osnivanje i razvoj klastera u Srbiji. Smernice (The establishment and development of clusters in Serbia. Practical Guide, in Serbian language)*, 28 pages, Ed. RPKP, Pozarevac, Serbia, 2010, www.rpkp.co.rs
4. Ignaton Elemer, *Construction Management*, Ed. Politehnica, Timisoara, 2010, 256 pages, ISBN 978-606-554-234-1 (published in Romanian)
5. Negru Strauți Gabriela, *Management*, Ed. Politehnica Timisoara, 2010, ISBN 678-606-554-178-8, 210 pages, (published in Romanian)
6. Pugna Adrian, *Legislation and comercial tehniques*, Ed. Eurobit Timisoara, 2010, ISBN 978-973-620-659-7, 283 pages, (published in Romanian)
3. Izvercianu Monica, Negru Strauti, G., Pugna, A., *Study regarding the Possibilities of Transition Towards an Sustainable Entrepreneurial University*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, vol. 21, nr. 1, pp. 0208, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010, pp. 0415-0416
4. Popa Horia Liviu, Cristea, S. L., *The Progress of Europe: An Integrative Model*, Annals of DAAAM for 2010 & Proceedings of the 21th DAAAM International Symposium "Intelligent Manufacturing & Automation: Focus on Interdisciplinary Solutions" -Viena, Austria, ISBN 978-3-901509-73-5, ISSN 1726-9679, pp. 0423-0424
5. Prostean Gabriela, Tăucean Ilie Mihai, Tămășilă Matei, *Windmill farm assembly process using a MRP model*, 21st DAAAM World Symposium "Intelligent Manufacturing & Automation: Focus on Interdisciplinary Solutions", Zadar, Croatia, ISBN 978-3-901509-73-5, ISSN 1726-9687, pp. 0217-0218
6. Prostean Gabriela, Tămășilă Matei, Tăucean Ilie Mihai, *Improvement of windmill assembly process with FMEA*, 21st DAAAM World Symposium "Intelligent Manufacturing & Automation: Focus on Interdisciplinary Solutions", Zadar, Croatia, pp. 0215-0216, ISBN 978-3-901509-73-5, ISSN 1726-9687
7. Tăucean Ilie Mihai, Tămășilă Matei, Cociu Nicolae, Hendel Erika Nicoleta, *Analysis of productivity based on production line balancing*, 21st DAAAM World Symposium "Intelligent Manufacturing & Automation: Focus on Interdisciplinary Solutions", Zadar, Croatia, 20-23 Octombrie, 2010, pp. 0035–0036, ISBN 978-3-901509-73-5, ISSN 1726-9679
8. Tămășilă Matei, Tăucean Ilie Mihai, Tăroată Anghel, Proștean Gabriela, *Business Intelligence models and applications in Romania*, 21st DAAAM World Symposium "Intelligent Manufacturing & Automation: Focus on Interdisciplinary Solutions", Zadar, Croatia, 20-23 Octombrie, 2010, pp. 603-604, ISBN 978-3-901509-73-5, ISSN 1726-9679
9. Dumitrescu, C. D., *Tax Fraud Specific Forms of manifestation in the underground economy*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010, pp. 0435-0436
10. Dumitrescu, C. D., Țeț, I.D., Dumitrescu Cintia Ivone, *Lean Six Sigma principles*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010, pp. 0433-0434

### PUBLISHED PAPERS

1. Izvercianu Monica, Popa, H., Draghici, A., *Determining the Skills Necessary for Romanian Graduates of Engineering and Management in Electric, Electronic and Energetic*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, vol. 21, nr. 1, pp 0276, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010, pp. 0551-0552
2. Izvercianu Monica, Mihartescu, A., Staicu, F., *Market study for products Improvement*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, vol. 21, nr. 1, pp. 0277, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010, pp. 0553-0554

11. Țeș, I.D., Dumitrescu, C. D., Trandafir Nicoleta, *Statistical Quality Control Methods of products and services*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, pp. 0671, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010, pp. 1341-1343
12. Buchman I, Ignaton E., *High Performance concretes from Romania*, DAAAM International Viena, 22-23 October 2010, Zadar, Croatia, pp. 0259-0260, pp 0130, ISBN 978-3-901509-73-5; ISSN 1726-9679
13. Buchman I, Ignaton E., *Reactive Powders concrete*, DAAAM International Viena, 22-23 October 2010, Zadar, Croatia, pp. 0261-0262, ISBN 978-3-901509-73-5; ISSN 1726-9679
14. Danciu, L., Alan, P., *Giving economical forecasts using an elementary informatical system*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, Volume 21, No. 1, pp. 1195-1196, ISSN 1726-9679, ISBN 978-3-901509-73-5, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2010
15. Mihărtescu Ana-Andreea, Negrut, M.,L., Mazilescu, C.,A., *Market Research for Improving Products*, Annals of DAAAM for 2010 & Proceedings of the 21th International DAAAM Symposium, "Intelligent manufacturing and automation: Focus on interdisciplinary solutions", 20-23rd October 2010, Zadar, Croatia Volume 20, No. 1, ISSN 1726-9679, ISBN 978-3-901509-73-5, pp. 0747-0748, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010
16. Negrut, M. L., Mocan, M., Mihărtescu, A. A., *Considerations on implementing the concept of sustainability in higher education in Romania*, Annals of DAAAM for 2010 & Proceedings of the 21th International DAAAM Symposium, "Intelligent manufacturing and automation: Focus on interdisciplinary solutions", 20-23rd October 2010, Zadar, Croatia Volume 20, No. 1, ISSN 1726-9679, ISBN 978-3-901509-73-5, pp. 0749-0750, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010
17. Vacarescu Valeria, Vacarescu Cella-Flavia, Argesanu V, Draghici A., Cristiu I., *The Differential Modeling of End-Effector's Pose Errors Applied to Robots Calibration*, The Proceedings of The 21th International DAAAM Symposion "Intelligent Manufacturing & Automation, 21st DAAAM International World Symposium, Zadar, Croatia, 20-23rd October 2010, pp. 0011-0012, ISSN 1726-9680, ISBN 978-3-901509-73-5
18. Vacarescu Cella-Flavia, Vacarescu Valeria, *The Taguchi's Quality Loss Function in Development and Design for Bulk Goods in the Automotive Field*, The Proceedings of The 21th International DAAAM Symposion "Intelligent Manufacturing & Automation, 21st DAAAM International World Symposium, Zadar, Croatia, 20-23rd October 2010, pp. 0009-0010, ISSN 1726-9680, ISBN 978-3-901509-73-5
19. Buciuman Vacarescu Cella-Flavia, *Applications of iterative learning control tehniques on an inverted pendulum system*, The Proceedings of The 21th International DAAAM Symposion "Intelligent Manufacturing & Automation, 21st DAAAM International, World Symposium, Zadar, Croatia, 20-23rd October 2010, pp. 151-152, ISSN 1726-9680, ISBN 978-3-901509-73-5
20. Izvercianu Monica, Tion M., Draghici A, *Determining the skills necessary for management and engineering graduates in Romania*, Proceedings of the 6-th International seminar on Quality Management in Higher Education, Tulcea Romania, book 1, 8-9 July, 2010, ISBN 978-973-662-566-4, ISBN Vol. II 978973-662-567-1
21. Draghici Anca, Izvercianu Monica, Draghici G., *Virtual Center for Entrepreneurship Development*, ENTERprise Information Systems, International Conference, CENTERIS 2010, Viana do Castelo, Portugal, October 20-22, 2010, Proceedings, Part II, in Communications in Computer and Information Science, Vol. 110, 2010, pp. 249-258, ISSN 1865-0929, ISBN-10 3-642-16418-8, ISBN-13 978-3-642-16418-7
22. Negru Strauti Gabriela, Pugna A., Mocan, M., *Model for regional competitiveness evaluation for Romania*, 21st DAAAM International World Symposium-Intelligent Manufacturing & Automation Interdisciplinary Solutions, 20-23 October 2010, Zadar, Croatia, pp. 0417-0418, ISSN 1726-9679, ISBN 978-3-901509-73-5
23. Alan, P., Buciuman Cella-Flavia, *Software solution for curricula and employees positions design in a university*, Proceedings of the 6th International Seminar on the Quality Management in Higher Education - QMHE 2010, Editura UT Press, 2010, Romania, ISBN 978-973-662-566-4
24. Mihărtescu Ana-Andreea, Negrut, M.L., Dupta, P. E., *Role of Continuing Education Organizations in Global Society, Quality management in higher education*, Proceedings of the 6<sup>th</sup> International seminar on quality management in higher education, Tulcea 8-9 July 2010, UT press, Cluj-Napoca, ISBN 978-973-662-566-4, ISBN (Volume 1) 978-973-662-567-1, pp. 467-470
25. Mihărtescu Ana-Andreea, Negrut, M.L., Mazilescu, A. C., *From Traditional Learning to E-learning, Quality management in higher education*, Proceedings of the 6<sup>th</sup> International seminar on quality management in higher education Tulcea 8-9 July 2010, UT press, Cluj-Napoca ISBN 978-973-662-566-4, ISBN (volume 1) 978-973-662-567-1, pp. 523-526, (volume 2)

26. Negrut, M.L., Alan, P., Mihărtescu, A.A., *Some Considerations About the Sustainability in Higher Education in Technical Universities, Quality Management in higher education*, Proceedings of the 6<sup>th</sup> International Seminar on Quality Management in Higher Education, Tulcea 8-9 July 2010, UT Press, Cluj-Napoca ISBN 978-973-662-566-4, ISBN (Volume 1) 978-973-662-567-1, pp. 227-230
27. Tămășilă Matei, Tăucean Ilie Mihai, Tion Monica, Albulescu Claudiu, *Particularities regarding entrepreneurship education and research in the west region of Romania*, The 6-th International seminar on the Quality Management in higher Education, 8-9 July, 2010, Tulcea, Romania, pp. 711, ISBN 978-973-662-566-4
28. Mazilescu Crisanta-Alina, Popescu-Mitroi Monica - Maria, Draghici Anca, Mihărtescu Ana-Andreea, Pop Mirela-Cristina, *Representation of teaching competency to students and teachers*, Annals of DAAAM for 2010 & Proceedings of the 21th International DAAAM Symposium, "Intelligent manufacturing and automation: Focus on interdisciplinary solutions", 20-23rd October 2010, Zadar, Croatia Volume 20, No1, ISSN 1726-9679, ISBN 978-3-901509-73-5, pp. 019-020, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010
29. Mihărtescu Ana-Andreea, Negrut Mircea Liviu, Mazilescu Crisanta Alina, *Methods for Integrating Users in Process Development of Product*, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, No. 1, ISSN 1583-0691, pp. 209-212, CNCSIS B+, BDI ULRICH
30. Mihărtescu Ana-Andreea, Negrut Mircea Liviu, Mazilescu Crisanta Alina, *Aesthetics and Industrial Product Design*, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, No.2, pp. 161-164, CNCSIS B+, BDI ULRICH
31. Negrut Mircea Liviu, *From Education to Practice, Comparison of Procedures and Processes in Construction Project Management in Romania and Germany*, TAGUNGSBAND 2. agenda4 Forschungssymposium der Baubetriebs und Immobilienwissenschaften, (Proceedings-2. agenda 4-Research Symposium Construction Management and Real Estate Sciences), 14-15 October 2010, Technische Universität München, Germania, Editor J. Zimmerman, CEO agenda4, Lehrstuhl für Bauprozessmanagement und Immobilienentwicklung, Munchen, ISBN 978-3-939956-13-6, 24 pages
32. Negrut Mircea Liviu, Gheorghe Ionescu, *Comparative Study of Knowledge and Skills Acquired in Higher Education in the Field of Construction Project Management*, Quality Management in higher Education, Proceedings of the 6<sup>th</sup> International Seminar on Quality Management in Higher Education, Tulcea 8-9 July 2010, UT Press, Cluj-Napoca ISBN 978-973-662-566-4, ISBN (Vol. 1) 978-973-662-567-1, pp. 471-474
33. Koch-Ciobotaru, C.; Boraci, R.; Filip, I.; Vasar, C.; Prostean Gabriela, *Control strategy for a variable-speed wind turbine using dc bus measurements*, Intelligent Systems and Informatics (SISY), 8th International Symposium on Subotica, Serbia, 10-11 Sept. 2010, pp. 329-334, ISBN 978-1-4244-7394-6, BDI IEEE Explore
34. Kylieni, S.; Pop, O.; Prostean Gabriela; Craciun, C., *Transmission cost allocation based on power flow tracing using Z bus matrix*, Harmonics and Quality of Power (ICHQP), 14th International Conference on Bergamo, Italia, 26-29 Sept. 2010, pp. 1-6, ISBN 978-1-4244-7245-1, ISBN 978-1-4244-7244-4, BDI IEEE Explore
35. Budisan, N.; Boraci, R.; Koch-Ciobotaru, C.; Prostean Gabriela; Musca, C., *On permanent-magnet synchronous generator current harmonics, due to rectifier at the generator end of the variable speed generator sets converter systems*, Computational Cybernetics and Technical Informatics (ICCC-CONTI), 2010 International Joint Conference on Timisoara, Romania, 27-29 May 2010, pp. 471-474, ISBN 978-1-4244-7432-5, BDI IEEE Explore
36. Popescu, M.C.; Buzera, M.; Prostean Gabriela, *Modelling and simulating palletization automated plants operation*, Soft Computing Applications (SOFA), 2010 4th International Workshop on Arad, Romania, 15-17 July 2010, pp. 67-72, ISBN 978-1-4244-7985-6, BDI IEEE Explore
37. Popescu, M.C.; Prostean Gabriela; Buzera, M., *Digital system for adjusting the angular velocity of an induction motor*, Soft Computing Applications (SOFA), 2010 4th International Workshop on Arad, Romania, 15-17 July 2010, pp. 61-66, ISBN 978-1-4244-7985-6, BDI IEEE Explore
38. Tirian, G. O.; Prostean Gabriela; Rusu Anghel, S.; Cristea, D., *Adaptive control system of continuous casting process based on a fuzzy logic mechanism*, Computational Cybernetics and Technical Informatics (ICCC-CONTI), 2010 International Joint Conference on Timisoara, Romania, 27-29 May 2010, pp. 379-382, ISBN 978-1-4244-7432-5, BDI IEEE Explore
39. Szdeidert, I.; Filip, I.; Vasar, C.; Prostean Gabriela, *Wind aggregate's mathematical modeling method based on wind tunnel test results and regression functions*, Computational Cybernetics and Technical Informatics (ICCC-CONTI), 2010 International Joint Conference on Timisoara, Romania, 27-29 May 2010, pp. 451-454, ISBN 978-1-4244-7432-5, BDI IEEE Explore
40. Izvercianu Monica, Vartolomei Mihaela, Staicu Florențiu, *Strategic reorganization and change necessity inside enterprises*, 10th International

- Symposium in Management SIM 2009, Management & Competitiveness in knowledge-based society, 06-07 November 2010, Timisoara, Romania, Special issue of Review of Management and Economical Engineering Vol. 9, No. 5, 2010, Scientific proceedings CD-ROM Edition, pp. 1-8, ISSN 1583-624X
41. Izvercianu Monica, Vartolomei Mihaela, Staicu Florențiu, *Conflict theories in competing terms*, 10th International Symposium in Management SIM 2009, Management & Competitiveness in knowledge-based society, 06-07 November 2010, Timisoara, Romania, Special issue of Review of Management and Economical Engineering Vol. 9, No. 5, 2010, Scientific proceedings CD-ROM Edition, pp. 1-9, ISSN 1583-624X
  42. Cociu Nicolae, Văcărescu Cella-Flavia, *Opportunities for resource allocation optimization*, The 10th International Symposium in Management SIM 2009, Management & Competitiveness in knowledge-based society, 06-07 November 2010, Timisoara, Romania, Special issue of Review of Management and Economical Engineering Vol. 9, No. 5, 2010, Scientific proceedings CD-ROM Edition, pp. 1-6, ISSN 1583-624X
  43. Mihărtescu Ana-Andreea, *Market research in virtual environment vis-a-vis the traditional market study*, 10th International Symposium in Management SIM 2009, Management & Competitiveness in knowledge-based society, 06 - 07 November 2010, Timisoara, Romania, Special issue of Review of Management and Economical Engineering Vol. 9, No. 5, 2010, Scientific proceedings CD-ROM Edition, pp. 1-9, ISSN 1583-624X
  44. Popa H.L., *Clustering programmes in European Union and in Romania*, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Management. Engineering Economy, Transportation Engineering, Tom 55 (69), Fasc.1, 2, 2010, pp. 13-28, ISSN 1224-6050
  45. Cristea S.L., Popa H.L., *Advertising-component part of whole product*, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Management. Engineering Economy, Transportation Engineering, Tom 55 (69), Fasc.1, 2, 2010, pp. 47-60, ISSN 1224-6050
  46. Tăucean Ilie Mihai, *Decision optimization for priority rules used in scheduling*, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Management, Engineering Economy. Transportation Engineering, Tom 55 (69), Fasc.1, 2, 2010, pp. 29-36, ISSN 1224-6050
  47. Gabriela Proștean, Sorin-Ioan Maistor, *Aspects regarding the logistics system in Romania*, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Management Engineering Economy. Transportation Engineering, Tom 55 (69), Fasc.1, 2, 2010, pp. 61-66, ISSN 1224-6050

### PHD THESIS SUSTAINED

1. Boglarka Lilla Debelka, Contributions to the design, development and implementation of a quality management system in small and medium enterprises from Romania, PhD supervisor: Prof.dr.eng. Constantin Dan Dumitrescu

### PERSPECTIVE DOMAINS

- competitive integrated policies and management at regional level
- development of expert systems for management
- competitiveness centres and clusters

### RESEARCH TEAM

Prof.dr.eng. Horia Liviu POPA  
 Prof.dr.eng. Monica IZVERCIANU  
 Prof.dr.eng. Anghel TĂROATĂ  
 Prof.dr.eng. Constantin DUMITRESCU  
 Prof.dr.eng. Elemer IGNATON  
 Prof.dr.eng. Gabriela PROȘTEAN  
 Assoc.prof.dr. Nicolae COCIU  
 Assoc.prof.dr.eng. Traian MUȚIU  
 Assoc.prof.dr.eng. Păun ALAN  
 Assoc.prof. dr. eng. Adrian PUGNA  
 Lecturer dr. eng. Tiberiu Liviu OANĂ  
 Lecturer dr. ec .eng. Simina IOVAN  
 Lecturer dr. eng. Ilie TĂUCEAN  
 Lecturer dr. ec. eng. Matei TĂMĂȘILĂ  
 Lecturer dr. eng. Gabriela NEGRU STRĂUȚI  
 Lecturer dr. eng. Monica TION  
 Assist.drd.eng. Florin TIMPLARU  
 Assist.drd.eng. Andreea MIHĂRTESCU  
 Assist.drd.eng. Mircea NEGRUȚ  
 Assist.drd.eng. Olivia GIUCĂ  
 Assist. eng. Cella VACARESCU BUCIUMAN  
 Assist. eng. Sorin-Ioan MAISTOR  
 Assist. eng. Tünde MARTON

### RESEARCH DIVISION FOR TECHNICAL AND PRODUCTION SYSTEMS ENGINEERING

#### CONTACT

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### RESEARCH FIELDS

- logistics and transportation systems
- industrial and urban transport
- reliability and maintenance of products and production systems
- value analysis and engineering

- ergonomics
- ensuring safety and environmental protection
- road traffic system design and optimisation
- production systems optimisation

### KEYWORDS

logistics, transportation, products, production systems

### MAIN ACTIVITIES

- development of new scientific integrated methods in logistics and transportation
- optimal integrated technologies in innovation, production, logistics and transportation
- consulting in production systems, logistics, transportation, ergonomics, safety and environmental protection

### RESEARCH PROJECTS

1. Modernizing academic education by introducing a management information system for the Romanian universities. (SIMUR), POSDRU, Axa 1, Cod 31541, POSDRU/56/1.2./S

Value UPT 2010: 150.000 Lei

Project Manager: Prof.dr.eng. Dumitrescu Constantin

Research team: Prof.dr.eng. Serban Viorel

Lecturer dr.eng. Taucan Ilie

Codreanu Cosmin

Trandafir Nicoleta

Tent Ionut

Irimie Sabin

Miclea Florian

### PUBLICATIONS

#### BOOKS

1. Ungureanu Nicolae, Duval Pascal, Mocan Marian, Tăucean Ilie Mihai, *Maintenance of logistics activities*, Ed. Universității de Nord Baia Mare, 2010, 286 pages (published in Romanian)
2. Svasta Mihai (coordonator), Motiu Lucian, Caian Sorin, Ionescu Ileana, Jitiana Sandra, Tanase Gabriela, Mocan Marian s.a., *Consultant in Romania. Profession and management consultancy market in Romania. Best practices in management consulting.*, ISBN 978-973-0-09304-9, Ed. AMCOR, Bucuresti 2010, 300/ 24 pages (published in Romanian)

#### PUBLISHED PAPERS

1. Mocan, M., Pugna, A., Negru Strauti, G., *Entrepreneurial education need in technical higher education*, Proceedings of the 6<sup>th</sup> International Seminar on the Quality Management in Higher Education, 8<sup>th</sup>-9<sup>th</sup> July 2010, Tulcea, Romania, pp. 631-634, ISBN 978-973-662-566-4, ISBN (Vol. 1) 978-973-662-567-1
2. Mocan, M., Negru Strauti, G., Pugna, A., *Entrepreneurial education impact on entrepreneurial competencies and intentions development*, Proceedings of the 6<sup>th</sup> International Seminar on the Quality Management in Higher

Education, 8<sup>th</sup> – 9<sup>th</sup> July 2010, Tulcea, Romania, pp. 635-638, ISBN 978-973-662-566-4, ISBN (Vol. 1) 978-973-662-567-1

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## RESEARCH DIVISION FOR FINANCIAL MANAGEMENT

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### RESEARCH FIELDS

- principles of market economy
- investment policies
- financial policies
- company finances
- finance and banking
- business law

### KEYWORDS

market economy, finance, banking, European economy, financial strategies, dividend

### MAIN ACTIVITIES

- share market in Romania
- the progress of financial transition
- inflation and unemployment
- corporate finance policies
- changes in Romanian taxation

### RESEARCH PROJECTS

1. ResEUr – Certified EU Researcher-Entrepreneur - 503021- LLP-1- 2009-1- BE- LEONARDO- LMP, Leonardo da Vinci – Multilateral project, Development of Innovation, Agence Europe –Education -Formation Belgium  
 Value: 52.772 Euro  
 Value UPT 2010: 15.510 Euro  
 Director: Prof.dr.eng. Draghici Anca  
 Research team: Prof.dr.eng. Draghici G., Tion M., Suciu S., Albulescu C., Tamasila M., Taucean I., Balut M.
2. iDesigner - Certified Integreted Design Engineer - FR/08/LLP-LdV/TOI/117025, Leonardo da Vinci – Transfer of Innovation project, Agence Europe-Education-Formation France  
 Value: 38.531 Euro  
 Value UPT 2010: 0 Euro  
 Director: Prof.dr.eng. Draghici George  
 Research team: Prof.dr.eng. Draghici Anca, Suciu S., Mazilescu A., Pamintas E., Banciu F., Grozav I.
3. dEUcert–Dissemination of European certification schema ECQA, 505101-LLP-1-2009-1-AT-KA4-KA4MP, Leonardo da Vinci – KA4 Dissemination and Exploitation of Results, Agence Europe-Education-Formation Austria  
 Value: 15.800 Euro  
 Value UPT 2010: 4.740 Euro  
 Director: Prof.dr.eng. Draghici Anca  
 Research team: Prof.dr.eng. Draghici George
4. Interdisciplinary research to achieve a platform of professional risk assessment of impact on safety culture in organizations, CNCSIS ID 1022, No. contract 629/2009, Contract PN II, Exploratory Research Projects IDEAS, CNCSIS – UEFISCSU.  
 Value: 1.000.000 Lei  
 Value UPT 2010: 0 Lei  
 Director: Prof.dr.eng. Draghici Anca  
 Research team: Vacarescu V., Lovasz Ch. E., Seban C.L., Serban D.
5. Local Community Energy Services Using Aerflow, contract No. 21-036/2007-2010  
 Value UPT 2010: 196034 Lei  
 Director: Milos Teodor  
 Research team: Ciobotaru Daniela, Gyulai Francisc, Barglazan Mircea, Manea Adriana Sida, Dobanda Eugen, Badarau Rodica, Stroita Daniel, Ungureanu Anghel, Cosovan Iolanda, Potorac Ioan, Botici Alexandru, Let Teodor, Bej Adrian, Assist.dr. Vartolomei Mihaela

### PUBLICATIONS

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<http://www.eiswatch.org/centeris2010/proceeding: http://www.springerlink.com/content/978-3-642-16418-7/#section=825571&page=12&locus=20>
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37. Albulescu Claudiu Tiberiu, *Preventing financial crises appearance: a macro stress-tests approach*, 10th International Symposium in Management SIM 2009, Management & Competitiveness in knowledge-based society, 06 - 07 November 2009, Timisoara, Romania, Special issue of Review of Management and Economical Engineering Vol. 9, No. 5, 2010, Scientific proceedings CD-ROM Edition, pp. 1-12, ISSN 1583-624X

#### PERSPECTIVE DOMAINS

- financial decisions in small and middle-sized companies and their services
- investment strategies in small and middle-sized companies and their services

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