

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 Timișoara, 14, Remus Str.

The head of the CCIE is *Prof. dr. eng. Horia POPA*
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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
- » total quality management
- » production management

KEYWORDS

firms, clusters, competitiveness, management, marketing, quality, risk, 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. CNCISIS Grant 474/2003: *The competitiveness management for Romanian industrial companies*, Period: 2003 – 2005, Value: 280,000,000 ROL
 Director: Prof. dr. eng. Popa Horia Liviu
 Research team: Prof. dr. eng. Ignaton E.
 Assoc. prof. dr. eng. Drăghici A.
 Assoc. prof. dr. eng. Proștean G.
 Assist. mat. ec. Pater F.
2. Leonardo Grant I 04 DFPP 154101 / 2004: *Risk management*
 Value: 7.500 EUR
 Director: Prof.dr.eng. Izvercian M.
 Research team: Assist. dr. eng. Tăucean I.
 Assist. ec. Daianu C.

PUBLICATIONS

BOOKS

1. Popa, H.L., *The Systems Theory and Engineering*, Politehnica Publishing House, Timisoara, 2004, ISBN 973-8247-74-8, 239 pages (published in Romanian)
2. Oană, T.L., *The Systemic Analysis of the Civil Engineering Enterprises*, Politehnica Publishing House, Timisoara, 2004, ISBN 973-625-192-6, 355 pages (published in Romanian)

PUBLISHED PAPERS

1. Popa, H.L., Iovescu, M., Junie, A., *The competitiveness development of the SMEs clusters in Timisoara Zone and in Region 5 West from Romania*, Clusters of Enterprises and the Internationalisation of SMEs. The Case of the Romanian Region of Timisoara, OECD, LEED, Paris, 2004, pp. 1–4, www.oecd.org/ (published in Romanian)
2. Popa, H.L., Pater, L.R., *The competitiveness analysis*, Scientific Bulletin of the “Politehnica” University of Timisoara, Romania, Transactions on Management, Engineering Economy,

- Transportation Engineering, Tome 49(63), 2004, pp. 3-16, ISSN 1224-6050 (published in Romanian)
3. Popa, H.L., *Unitary methodology in the management of the competitiveness*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 53-60, ISSN 1224-6050 (published in Romanian)
 4. Popa, H.L., Izvercian, M., Abrudan, I., Mateescu, E., *The Program "Competitive Romania"*, Journal "Management și Inginerie Economică", vol. 3, nr. 1(9), 2004, pp. 75-83, ISSN 1583-624X (published in Romanian)
 5. Kovacs, F.V., Popa, H.L., *Contributions to mathematical modeling of network of company using relation between "pair of frames"*, Robotica & Management, Tome 9, nr. 1, 2004, pp. 26-30, ISSN 1453-2069 (published in Romanian)
 6. Tăroată, A., Pîrvu, M., *Obtaining total quality by developing and implementing continuous improvement*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 17-24, ISSN 1224-6050 (published in Romanian)
 7. Tăucean, I., Tămășilă, M., *Optimization of production decisions using relations diagrams*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 25-34, ISSN 1224-6050 (published in Romanian)
 8. Tămășilă, M., Tăucean, I., *Intreprenorial management – present and views*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 35-42, ISSN 1224-6050 (published in Romanian)
 9. Mihărtescu, A.A., Duța, P.E., *Considerations concerning the strategy of prices adapting in a competitive market*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 43-60, ISSN 1224-6050 (published in Romanian)
 10. Cociu, N., *Time series in sales foresights*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 61-72, ISSN 1224-6050 (published in Romanian)
 11. Duța, P.E., *Traditional channels versus vertical marketing systems*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 73-82, ISSN 1224-6050 (published in Romanian)
 12. Karagiannis, S., Apostolou, A., Mocan, M., *Accomplishments in tourism management in Creta Island*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 83-94, ISSN 1224-6050 (published in Romanian)
 13. Alan, P., Oană, T.L., *Production planning in constructions*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 95-100, ISSN 1224-6050 (published in Romanian)
 14. Muțiu, T., *Méthodes de programmation opérative des travaux des réparations*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 101-108, ISSN 1224-6050 (published in Romanian)
 15. Drăghici, A., *The necessity and modalities for limit the occupational diseases risks in Romania*, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Management, Engineering Economy, Transportation Engineering, Tome 49(63), 2004, pp. 109-120, ISSN 1224-6050 (published in Romanian)
- PHD THESIS**
- Tăucean, I. *Contributions regarding decision optimisation in engineering systems*, PhD supervisor: Prof. dr. eng. Constantin Dumitrescu

PERSPECTIVE DOMAINS

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

RESEARCH TEAM

Prof.dr.eng. Horia Liviu POPA
 Prof.dr.eng. Monica IZVERCIAN
 Prof.dr.eng. Anghel TĂROATĂ
 Prof.dr.eng. Elemer IGNATON
 Assoc.Prof.dr.eng. Attila FOLDVARY

Assoc.Prof.dr.eng. Traian MUȚIU
 Assoc.Prof.dr.eng. Nicolae COCIU
 Assoc.Prof.dr.eng. Păun ALAN
 Assoc.Prof.dr.eng. Tiberiu Liviu OANĂ
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 Assist.dr.eng. Ilie TĂUCEAN
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 Assist.eng. Florin TÂMPLARU
 Assist.eng. Matei TĂMĂȘILĂ
 Assist.eng. Gabriela STRĂUȚI NEGRU
 Assist.ec. Codruța DĂIANU
 Assist.eng. Monica TION
 Assist.eng. Andreea MIHĂRTEȘCU
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RESEARCH DIVISION FOR TECHNICAL AND PRODUCTION SYSTEMS ENGINEERING

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RESEARCH FIELDS

Road vehicles dynamics and propulsion systems
 Reliability and maintenance
 Urban transport
 Chemical and noise pollution in traffic,
 Statistics in road traffic and the traffic flow theory
 Road traffic system design
 Road traffic safety and automated control
 Intelligent transport systems (ITS)

KEYWORDS

traffic safety, transportation, vehicles, systems

MAIN ACTIVITIES

- » organization and management of road traffic systems
- » planning, design and optimisation of goods and people transport
- » ensuring the road traffic safety and environmental protection
- » exploitation and maintenance of the surveillance, control, monitorship, automatization equipments and the means of directing the road traffic

RESEARCH PROJECTS

1. AMTRANS- 3CO2 –PNCDI: *Convergent solutions for limiting the congestion and pollution effects in urban traffic ambushes*;
 Period: 2002-2004, Value: 354,500,000 ROL
 Director: Prof. dr. eng. Lucaci Gheorghe
 Research Team: Assoc. prof. dr. eng. D. Iancului
 Lect. dr. eng. A. Gonczi
 Lect. dr. eng. W. Ștefănescu

2. *Consulting and technical expertise on road traffic for projects made by SC Aghi Priect SRL*;
 Period 2003-2004; Value: 304,640,000 ROL
 Director: Lect. dr. eng. GONCZI Attila

PUBLICATIONS

BOOKS

Mocan, M., *Instruction package for human resources development in small and middle-sized enterprises*, Solness Publishing House, Timișoara, 2004, ISBN 973-687-255-6, 210 pages (published in Romanian)

PUBLISHED PAPERS

1. Ștefănescu, W., *Theoretical considerations concerning the weight of machines carried on tractors*, Scientific Bulletin of the “Politehnica” University of Timișoara, Transactions on Management, Engineering Economy, Transportation Engineering, 49(63), 2004, pp. 121 – 127 (published in Romanian)
2. Cipleu, A., *The influence of carburization and nitration over the material tenacity and the shock reliability of gear wheels*, Scientific Bulletin of the “Politehnica” University of Timișoara, Transactions on Management, Engineering Economy, Transportation Engineering, 49(63), 2004, pp. 133 – 140 (published in Romanian)
3. Cipleu, A., *The influence of carburization and nitration over the material structure and the gear wheel reliability*, Scientific Bulletin of the “Politehnica” University of Timișoara, Transactions on Management, Engineering Economy, Transportation Engineering, 49(63), 2004, pp. 127 – 132 (published in Romanian)
4. Gönçzi, A., Iancului, D., *New traffic regulations in romania – possible effects on road safety*, “On Safe Roads in the XXIst Century”, 3rd conference – proceedings, October 2004, Budapest: (published on CD by PIARC, Ertico and Maut) (published in English)
5. Draghici, A., Mocan, M., *Man machine relation study - a methodology for the presing machines acoustic field's analyse*, Romanian Journal of Tehnical Science - Applied Mecanics, Romanian Academy, 2004, pp. 55 – 64 (published in Romanian)
6. Mocan, M., *The evolution of management in SME's of Timisoara*, Romanian Journal of Tehnical Science - Applied Mecanics, Romanian Academy, 2004, pp. 65 – 73 (published in Romanian)
7. Draghici, A., Nitulescu, M., Mocan, M., *Ergonomics design and analysis using CATIA V5*, Annals of Oradea University, Fascicle of Management and Tehnological Engineering CD-Rom Edition, Vol. VIII, 2004 (published in Romanian)

8. Mocan, M., *A new competitive approach of external logistics in companies from Timis county*, Micro Cad International Scientific Conference Miscolcz, Section O, 2004, pp. 96 – 103 (published in English)
9. Mocan, M., *Development plan for increasing competitiveness for "Traian Vuia" International Airport*, Micro Cad International Scientific Conference Miscolcz, Section O, 2004, pp. 104 – 111 (published in English)
10. Ștefănescu, W., Iancului, D., *Studies concerning the basaltic materials in agricultural machinery bulding*, Scientifical Research, Series VIII, USAB, 2004, pp. 28–33 (published in Romanian)
11. Iancului, D., Ștefănescu, W., *An hand held electrostatic spinning disc atomiser*, Scientifical Research, Series VIII, USAB, 2004, pp. 52 – 61 (published in Romanian)
12. Drăghici, A., Nițulescu, M., *Human interference optimisation using on ergonomics design and analysis methology*, Manufacturing and Management in the 21 Century, Skopje, Macedonia, 2004, pp. 48–57 (published in English)
13. Gonczi, A., *New traffic regulations in Romania effects on rood safety*, On Safe Roads in the XXI Century, Budapest, 2004, pp. 76–85 (published in English)

PHD THESIS

1. Vandici Ionel, *Contributions regarding the influence of physical-mechanical soil proprieties on wear off strength of agricultural tillaje*, PhD supervisor: Prof. dr. eng. Șandru Aftanasie
2. Cipleu Adrian, *Research regarding the shock fracture of hardened steels by surface treatment*, PhD supervisor: Prof. dr. eng. Dumitru Ion

PERSPECTIVE DOMAINS

- » telematics in transportation
- » road safety Inspections and Audit
- » new techniques in traffic surveillance and control

RESEARCH TEAM

Prof.dr.eng. Ioan DĂNILĂ
 Assoc.prof.dr.eng.. Ioan VOICU
 Assoc.prof.dr.eng. D. IANCULUI
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 Lect.dr.eng. A. GONCZI
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RESEARCH FIELDS

- » principles of market economy
- » investment politics
- » financial politics
- » 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
- » recent changes in Romanian taxation

PUBLICATIONS

BOOKS

1. Duran, V., Cozac, A., *Economical-financial analysis Theory and Practice*, vol I, Eurostampa Publishing House, Timișoara, 2004, ISBN 973-687-243-2; 973-687-246-7, 150 pages (published in Romanian)
2. Duran, V., Cozac, A., *Economical-financial analysis Theory and practice*, vol II, Eurostampa Publishing House, Timișoara, 2004, ISBN 973-687-243-2; 973-687-246-8, 150 pages (published in Romanian)
3. Duran, V., Maniov, V., *Company's economy and management*, Eurostampa Publishing House, 2004, ISBN 973-687-247-5, 295 pages (published in Romanian)
4. Duran, V., *Economy. Theory and practice.*, vol II, Eurostampa Publishing House, 2004, ISBN 973-687-286-6; 973-687-280-7, 210 pages (published in Romanian)
5. Grecu, E., *Elements of microeconomics*, Dacia Europa Nova Publishing House, Lugoj, 2004, ISBN 973-639-049-7, 158 pages (published in Romanian)

6. Grecu, E., *Initiation in accounting*, Eurostampa Publishing House, Timișoara, 2004, ISBN 973-687-276-9, 185 pages (published in Romanian)

PUBLISHED PAPERS

1. Dobran, M., *The functional market economy – an economic criterion of Romania's accession to the European Union*, Scientific Bulletin of the "Politehnica" University of Timișoara, Transactions on Economics and Social Science, 2004, pp. 7-13 (published in French)
2. Dobran, M., Călin, D., *Some considerations on price – as an economic information*, Scientific Bulletin of the "Politehnica" University of Timișoara, Transactions on Economics and Social Science, 2004, pp. 13-19 (published in French)
3. Pop, S., Vartolomei, M., *The structural functioning reorganisation of Romanian economy in the frame of integration process in European structures*, Scientific Bulletin of the "Politehnica" University of Timișoara, Transactions on Economics and Social Science, 2004, pp. 80-87
4. Grecu, E., *The road to economic growth*, Scientific Bulletin of the "Politehnica" University of Timișoara, Transactions on Economics and Social Science, 2004, pp. 32-37
5. Grecu, E., *Inflation's costs and benefits*, Scientific Bulletin of the "Politehnica" University of Timișoara, Transactions on Economics and Social Science, 2004, pp. 37-41
6. Bărglăzan, D., *Adopting a strategy of direct inflation target in Romania*, Scientific Bulletin of the "Politehnica" University of Timișoara, Transactions on Economics and Social Science, 2004, pp. 19-26
7. Ciupală, L.B., *The financing activity in Romania*, Scientific Bulletin of the "Politehnica" University of Timișoara, Transactions on Economics and Social Science, 2004, pp. 26-32
8. Bota, C., *The income method as an evaluation method on the stock market*, Scientific Bulletin of the "Politehnica" University of Timișoara, Transactions on Economics and Social Science, 2004, pp. 104-110
9. Bota, C., *Some considerations regarding the share price fluctuation, risk management and investment strategies*, Scientific Bulletin of the "Politehnica" University of Timișoara, Transactions on Economics and Social Science, 2004, pp. 110-119

PHD THESIS

Călin, D., *Implications of the European Monetary Unifications on the candidate countries: the case of Romania*, PhD supervisor: Silviu Cerna, Jacques Leonard

PERSPECTIVE DOMAINS

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

RESEARCH TEAM

Prof.dr. ec. Vasile Duran,
 Prof.dr.ec. Maria-Mariana Dobran,
 Assoc.Prof.dr.ec. Septimiu Pop
 Lect.dr.ec. Eugenia Grecu
 Assist.dr. ec. Diana Bărglăzan
 Assist.ec. Dan Duran

