

# 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

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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

### KEY WORDS

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. Actual Challenges in Logistics and Maintenance of Industrial Systems, No. 55996-IC-1-2007-1-ROERASMUS-EUCX-1, Erasmus IP, Financing: ANPCDFP

Value: 28547 EURO

Value UPT 2011: 3166 EURO

Director: Lecturer dr.eng. Taucean Ilie Mihai

Research team: Prof.dr.ec.eng. Mocan Marian, Filipescu Hannelore, Balut Marinela

2. Comparative study regarding the training needs for development of entrepreneurial competences in the context of E.U. post-integration, No. 451CB, INTERNATIONAL/BILATERAL /PN2, Financing: ANCS

Value: 20500 Lei

Value UPT 2011: 9959 Lei

Director: Lecturer dr. ec. eng. Tamasila Matei

Research team: Lecturer dr. eng. Ilie Taucean, Assoc.prof. dr. eng. Pugna Adrian, Lecturer dr. eng. Negru Strauti Gabriela, As.drd.eng. Buciuman Cella

3. SimSchool, No. 7403/ 27.05.2011, international/ education, Financing: Association for the Advancement of Computing in Education (AACE), Society for Information Technology and Teacher Education (SITE)

Value: 12000 \$

Value UPT 2011: 12000\$

Research team: Mazilescu Alina Crisanta, Banciu Felicia, **MIHĂRTESCU Ana-Andreea**, **NEGRUȚ Mircea Liviu**, Pop Mirela, Popescu Mitroi Monica Maria

## PUBLICATIONS

### BOOKS

1. Tăroată Anghel, Tămășilă Matei, Taucean Ilie Mihai, Leadership, Ed. Politehnica Timișoara, 2011, ISBN 978-606-554-218-1, 222 pages (published in Romanian)
2. Cociu Nicolae, Methods of operational research in engineering and management, Ed. Solness, Timișoara, 2011, ISBN 978-973-729-287--2, 347 pages (published in Romanian)
3. Mihărtescu Ana-Andreea, Integration of user requirements in the design phase of products, Ph.D. Thesis, Ed. Politehnica, Timisoara, 2011, 176 pages, ISBN 978-606-554-337-9 (published in Romanian)

### PUBLISHED PAPERS

1. Izvercianu Monica, Mentor profile for human resources in SMEs, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.1, 2011, pag. 15-20, ISSN 1224-6050
2. Izvercianu Monica, Pugna Adrian Pavel, Negru Străuți Gabriela, Luminosu C., Assessing the Effectiveness of Change Management in Higher Education, Proceedings of the 7th International Conference MTC 2011 Management of Technological Changes, vol.2, Alexandroupolis, Greece, pag. 365-368, ISBN 978-99486-1-6
3. Izvercianu Monica, Pugna Adrian Pavel, Negru Străuți Gabriela, Oană T., Using Enhanced Kano Model to Asses Students Requirements in a Higher Education Institution, Proceedings of the 7th International Conference MTC 2011 Management of Technological Changes, vol.2, Alexandroupolis, Greece, pag. 369-372, ISBN 978-99486-1-6
4. Popa Horia Liviu, The sustainable progress. An integrative model Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.1, 2011, pag. 21-40, ISSN 1224-6050
5. Cociu Nicolae, Tăucean Ilie, Taroata Anghel, Possibilities to optimise scheduling production, Annals of DAAAM for 2011 Proceedings of the 22nd International DAAAM Symposium "Intelligent Manufacturing & Automation Power of Knowledge and Creativity, 23 – 26 th november 2011, Vienna, Austria, pag. 0297 -

- 0298, ISBN 978 – 3- 901509-83-4, ISSN 1726-9679
6. Tamasila Matei, Taucean Ilie Mihai, Draghici Anca, The analysis of the innovation level for the entrepreneurial eucation in the west region of Romania, Proceedings of the 8th International Conference MTC 2011 Management of Technological Changes, vol.2, Alexandroupolis, Greece, pag. 197-200, ISBN 978-960-99486-1-6, ISBN (Book 1) 978-960-99486-2-2
7. Tamasila Matei, Foltean Florin, The analysis of the innovation level for the entrepreneurial eucation in the west region of Romania, Proceedings of the 7th International Conference MTC 2011 Management of Technological Changes, vol.2, Alexandroupolis, Greece, pag. 445-448, ISBN 978-960-99486-1-6, ISBN (Book 1) 978-960-99486-2-2
8. Daniel Pavlov, Matei Tamasila, The logic of questionnaires used by a Bulgarian-Romanian scientific project, Annual Conference of Rousse University, Proceedings of University of Rousse, Bulgaria, 8p., ISSN 1311-3321
9. Milena Todorova, Svilena Ruskova, Viktoriya Gedinach, Buciuman Cella-Flavia, Ilie Taucean, Students willingness and readiness to become entrepreneur, nnuual Conference 2011 - Ruse University, Ruse, Bulgaria, 28-29 Octombrie 2011, Proceedings of Ruse University, ISSN 1311-3321
10. Negru Străuți Gabriela, Maistor S, Mocan M, Pugna Adrian Pavel, Regional Competitiveness Evaluation in Romania, Annals of DAAAM for 2011 & Proceedings of the 22nd International DAAAM Symposium "Intelligent Manufacturing & Automation: Power of Knowledge and Creativity", Austria Center Vienna, Vienna, Austria, pag. 0649-0650, ISBN 978 – 3- 901509-83-4, ISSN 1726-9679
11. Popa Horia Liviu, The sustainable progress of Banat region. Horizon 2100, International Scientific Conference: "Strengthening the Competitiveness and Economy Bonding of Historical Banat – SCEBB", 28-29 September 2011, Vrsat, Serbia, SCEBB Proceedings, pag. 69-77, ISBN 978-86-7747-443-0
12. Popa Horia Liviu, Pater L.S., The sustainable integrative competitiveness. A systemic approach, International Scientific Conference: "Strengthening the Competitiveness and Economy Bonding of Historical Banat – SCEBB", 28-29 September 2011, Vrsat, Serbia, SCEBB Proceedings, pag. 171-175, ISBN 978-86-7747-443-0
13. Negruț Mircea Liviu, Mihărtescu Ana-Andreea, Comparative study on construction public investment regulations in Romania and Germany, Annals of DAAAM for 2011 & Proceedings of the 22th International DAAAM Symposium, "Intelligent manufacturing and automation: Focus on interdisciplinary

- solutions”, pag. 0537-0538, ISBN 978-3-901509-83-4, ISSN 1726-9679
14. Mihărtescu Ana-Andreea, Negruț Mircea Liviu, Mazilescu Alina Crisanta, Translating customer needs into design specifications, Management of Technological Changes, Democritus University of Trace Greece, Alexandroupolis, Greece, 3-5 september 2011, Proceedings of the 7-th International Conference on Management of Techological Changes, pag. 565-568, ISBN 978-960-99486-1-6 , ISBN 978-960-99486-2-3
  15. Negruț Mircea Liviu, Alan Păun, Mihărtescu Ana-Andreea, Market research to improve use of project management in construction companies in Romania, Management of Technological Changes, Democritus University of Trace Greece, Alexandroupolis, Greece, 3-5 september 2011, Proceedings of the 8-th International Conference on Management of Technological Changes, pag. 585-588, ISBN 978-960-99486-1-6 , ISBN 978-960-99486-2-3
  16. Todorova Milena, Ruskova Svilena, Gedinach Viktorya, Buciuman Cella Flavia, Tăucean Ilie Mihai, Method for studying the training needs in of the students in entrepreneurship, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.1, 2011, pag. 5-14, ISSN 1224-6050
  17. Pugna Adrian Pavel, Negru Străuți Gabriela, Enimaneva Svetoslava: Education program model to asses the competencies acquired from browsing entrepreneurial, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.1, 2011, pag. 41-46, ISSN 1224-6050
  18. Tăroată Anghel, Tăucean Ilie Mihai, Pîrvu Marcel, Maintenance management in the new context of Romanian economy, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.1, 2011, pag. 47- 56, ISSN 1224-6050
  19. Buciuman Cella-Flavia, Uses of Markov chains in forecasting brand loyalty, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.1, 2011, pag. 57- 66, ISSN 1224-6050
  20. Alan Păun, Concept of preparation, launching and tracking execution of complex investments, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.1, 2011, pag. 67- 74, ISSN 1224-6050
  21. Oană Tiberiu Liviu, Marton Tunde, Some mathematical aspects of the synchronization of work chains, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.1, 2011, pag. 75- 80, ISSN 1224-6050
  22. Negruț Mircea Liviu, Comparative analysis - general terms of contracting construction works, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.1, 2011, pag. 81-90, ISSN 1224-6050
  23. Izvercianu Monica, Radu Alina, Corporate social responsibility – a challenge for human resources, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.2, 2011, pag. 5-8, ISSN 1224-6050
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  26. Maistor Sorin Ioan, Stăncilă Nicoleta Steliana, The „open source” community seen as a business, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.2, 2011, pag. 27-36, ISSN 1224-6050
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- academic staff, Proceedings of the 7th International Conference on "Management of Technological Changes" – MTC 2011, Alexandroupolis, Greece, pag. 385-388, ISBN: 978-960-99486-1-6
30. Mirsu Betina, Prostean Gabriela, Mirsu Radu, Genetic Optimization for Transportation Problem, The 15th WSEAS International Conference on SYSTEMS, Corfu Island, Greece, pag. 495-502, 978-1-61804-023-7
  31. Filip I., Szeidert I., Prostean Gabriela, Vasar C., Issues regarding mathematical modeling of wind aggregates, 9th IEEE International Symposium on Applied Machine Intelligence and Informatics, Smolenice, Slovakia, pag. 23 – 26, ISBN 978-1-4244-7429-5
  32. Cornoiu M, Barbulescu C, Jigoria-Oprea D, Kilyeni S, Prostean Gabriela, Teslovan R, Power quality monitoring and analysis. Case study for 220/110 kV substation, 3rd IEEE International Symposium on Exploitation of Renewable Energy Sources, Subotica, Serbia, pag. 133-138, ISBN 978-1-4577-0097-2
  33. Jigoria-Oprea D, Kilyeni S, Barbulescu C, Prostean Gabriela, Solomonesc F, Cristian P, Power systems expansion considering large wind farms. Case study: Western Romania power system, 3rd IEEE International Symposium on Exploitation of Renewable Energy Sources, Subotica, Serbia, pag. 95-100, ISBN 978-1-4577-0097-2
  34. Barbulescu C, Kilyeni S, Prostean Gabriela, Cristian PD, Solomonesc F, Ungureanu D., Deregulated environment transmission expansion planning, EUROCON 2011, International Conference on Computer as a tool, Lisbon, Portugal, pag. 27-29, ISBN 978-1-4244-7486-8
  35. Biriescu M, Prostean Gabriela, Liuba G, Nedelea V, Augustinov L, Madescu G, Mot M., Experimental model of a hydrogenerator with static excitation, EUROCON 2011, International Conference on Computer as a tool, Lisbon, Portugal, pag. 4, ISBN 978-1-4244-7486-8
  36. Vasar C, Prostean Gabriela, Filip I, Szeidert I., Above increasing autonomy of wireless sensor networks used for windmill monitoring, 6th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2011), Timisoara, Romania, pag. 19-21, ISBN 978-1-4244-9108-7
  37. Berdie A, Osaci M, Prostean Gabriela, Cristea A., Web Programming features on integrated system SAP , 6th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2011), Timisoara, Romania, 21-24, ISBN 978-1-4244-9108-7
  38. Osaci M, Berdie AD, Prostean Gabriela, Belea D, Cristea A D., VRML (virtual reality modeling language) programming in SAP technologies, 6th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2011), Timisoara, Romania, pag. 24-27, ISBN 978-1-4244-9108-7
  39. Tăucean Ilie Mihai, Tamasila Matei, Taroata Anghel, Draghici Anca, Innovation leadership as a driver for change in entrepreneurship activity, Proceedings of the 7th International Conference MTC 2011 Management of Technological Changes, vol.2, Alexandroupolis, Greece, pag. 201-204, ISBN 978-960-99486-1-6
  40. Tăucean Ilie Mihai, Tent Ionut Dacian, Implementing quality cost management for effective change approach, Proceedings of the 7th International Conference MTC 2011 Management of Technological Changes, vol.1, Alexandroupolis, Greece, 97-100, ISBN 978-960-99486-1-6
  41. Taroata Anghel, Tăucean Ilie Mihai, Pirvu Marcel, Total Productive Maintenance In The Dynamic Change Of Romanian Enterprises, Proceedings of the 7th International Conference MTC 2011 Management of Technological Changes, vol.1, Alexandroupolis, Greece, pag. 245-248, ISBN 978-960-99486-1-6

#### **PHD THESIS SUSTAINED**

1. Razvan Neacsu, Informal economy - destabilizing factor in the evolution of Romanian society, PhD supervisor: Prof.dr.eng. Constantin Dan Dumitrescu
2. Ava Diaconu – Contributions to the management of migration and refugee specific services, 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**

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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

#### KEY WORDS

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. Project profitability analysis for 2008, 2009, 2010 and profitability forecasts for 2011, No. 10.528/22.03.2011 BC 48/2011, Financing: Timișoara International Airport Traian Vuia Value UPT 2011: 73.398,95 Lei  
 Research team: Prof.dr.ec.eng. Mocan Marian, Assoc.prof. dr. eng. Pugna Adrian, Prof.dr.eng. Izvercian Monica

#### PUBLICATIONS

##### BOOKS

1. Tăucean Ilie Mihai, Taroata Anghel s.a., Actual challenges in logistics and maintenance of industrial systems, Ed. Politehnica, Timisoara, 2011, 311 pages, ISBN 978-606-554-290-7 (published in English)

##### PUBLISHED PAPERS

1. Mocan Marian, Pugna Adrian, Negru Strauti Gabriela, Robust Design of Sintered Basalt Brake Disks, Proceedings of 7th International Conference Management of Technological Changes MTC 2011, 1st - 3rd September 2011, Alexandroupolis, Greece, Book 1, pg. 573 – 576, ISBN 978-960-99486-1-6, ISBN (Book 1) 978-960-99486-2-2
2. Mocan Marian, Pugna Adrian, Negru Strauti Gabriela, Using Six Sigma Method to Evaluate and Predict Production Process Outcome, Proceedings of 7th International Conference Management of Technological Changes MTC 2011, 1st - 3rd September 2011, Alexandroupolis, Greece, Book 1, pg. 569-572, ISBN 978-960-99486-1-6, ISBN (Book 1) 978-960-99486-2-2
3. Cociu Nicolae, Several optimising possibilities in production scheduling, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Economics and Social Science, Vol. 9, 2011, No. 1-2, pag. 21 - 26, ISSN 1583-7475
4. Crișan Radu, The development of concept of the multimodal transport, Scientific Bulletin of the “Politehnica” University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.1, 2011, pag. 91- 98, ISSN 1224-6050
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6. Giuca Olivia, Prostean Gabriela, Draghici Anca, Configuration of the SAP System Integration for a product unit, Proceedings of the the 2nd Review of Management and Economic Engineering Management Conference, Management of Crisis or Crisis of Management, pag. 105-108, ISSN 2247-8639
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8. Pirvu Marcel, Taroata Anghel, Moldovan Horia, Organisation response to changing internal and external environment, Proceedings of the 7th

International Conference MTC 2011 Management of Technological Changes, vol.1, Alexandroupolis, Greece, pag. 285-288, ISBN 978-960-99486-1-6

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10. Dumitrescu Dan Constantin, Țeț Dacian, The impact of Romanian underground economy, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.2, 2011, pag. 83 - 90, ISSN 1224-6050

## 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

### KEY WORDS

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

### PUBLICATIONS

#### PUBLISHED PAPERS

1. Aldea Cosmina C., Drăghici Anca, The need for communication Trust between members of virtual teams, Scientific Bulletin of the "Politehnica"

University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.2, 2011, pag. 37-42, ISSN 1224-6050

2. Luminosu Caius Tudor, Intelligente Rechtsetzung in der Europäischen Union – Beispiel anhand der Staatshaftung der Mitgliedstaaten, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Management. Engineering Economy. Transportation Engineering, Tom 56 (70), Fasc.2, 2011, pag. 43-50, ISSN 1224-6050

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4. Claudiu Tiberiu Albușescu, Financial derivative products and financial stability in Romania, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Economics and Social Science, Vol. 9, 2011, No. 1-2, pag. 5 - 14, ISSN 1583-7475

5. Alexandru Canda, Anca Draghici, Achieving agile-oriented culture (aoc) through responsible teams, effective communication and supporting leadership, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Economics and Social Science, Vol. 9, 2011, No. 1-2, pag. 15 - 20, ISSN 1583-7475

6. Anca Draghici, Sorin Suci, Vasile Gherhes, Alina Mazilescu, Social competencies development for future engineers, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Economics and Social Science, Vol. 9, 2011, No. 1-2, pag. 27 - 38, ISSN 1583-7475

7. Vasile Duran, Requirements and objectives of financial management in conditions of crisis, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Economics and Social Science, Vol. 9, 2011, No. 1-2, pag. 39 - 42, ISSN 1583-7475

8. Eugenia Grecu, Ways to streamline the tax system in Romania, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Economics and Social Science, Vol. 9, 2011, No. 1-2, pag. 43 - 46, ISSN 1583-7475

9. Caius Tudor Luminosu, The legislation of the European Union and Romanian legislation in the field of renewable energy, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Economics and Social Science, Vol. 9, 2011, No. 1-2, pag. 47 - 52, ISSN 1583-7475

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12. Mihaela Vartolomei, Dan Duran, Kinga Schramko, Industrial management in European integration policy, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transactions on Economics and Social Science, Vol. 9, 2011, No. 1-2, pag. 71 - 79, ISSN 1583-7475
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#### 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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