

CURRICULUM  
VITAE



**PERSONAL INFORMATION**

Name **Cătălina-Lucia Cocianu**  
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România**  
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E-mail **[ccocianu@ase.ro](mailto:ccocianu@ase.ro)**  
Nationality **Romanian**  
Date of birth **08/10/1971**

**PROFESSIONAL EXPERIENCE**

- Duration (from – to) **October 2007 - Present**  
• Name and address of employer **Bucharest University of Economics**  
• Type of activity **Research and teaching**  
• Position **Professor**  
• Main activities and responsibilities **Courses and seminars for license cycle. Research in the field of computer programming, signal processing, artificial intelligence, expert systems, neural networks, multi-resolution analyses, time-frequency analyses of signals.**
  
- Duration (from – to) **February 2005 - October 2007**  
• Name and address of employer **Bucharest University of Economics**  
• Type of activity **Research and teaching**  
• Position **Associated professor**  
• Main activities and responsibilities **Courses and seminars for license cycle. Research in the field of computer programming, signal processing, artificial intelligence, expert systems, neural networks, multi-resolution analyses, time-frequency analyses of signals.**
  
- Duration (from – to) **February 2002 - February 2005**  
• Name and address of employer **Bucharest University of Economics**  
• Type of activity **Research and teaching**  
• Position **Lecturer**  
• Main activities and responsibilities **Courses and seminars for license cycle. Research in the field of computer programming, signal processing, artificial intelligence, expert systems, neural networks, multi-resolution analyses, time-frequency analyses of signals.**

- Duration (from – to) February 1999 - February 2002
- Name and address of employer Bucharest University of Economics
- Type of activity Research and teaching
- Position Teaching Assistant
- Main activities and responsibilities Seminars of *Computer programming, programming algorithms and artificial intelligence*. Research in the field of computer programming, signal processing, artificial intelligence, expert systems, neural networks, multi-resolution analyses, time-frequency analyses of signals.
  
- Duration (from – to) February 1996 - February 1999
- Name and address of employer Bucharest University of Economics
- Type of activity Research and teaching
- Position Teaching pre-assistant
- Main activities and responsibilities Seminars of *Computer programming, programming algorithms and artificial intelligence*. Research in the field of computer programming, signal processing, artificial intelligence, expert systems, neural networks, multi-resolution analyses, time-frequency analyses of signals.

## **EDUCATION**

- Duration (from – to) 2003 – 2008
- Name and type of institution University of Pitesti, doctoral cycle
- Main subjects and qualifications Informatics, *Time-frequency analysis of signals with application in signal processing*.
- Name of qualification Diploma and title of *PhD in science*, field of *Informatics*, *MAGNA CUM LAUDAE*, granted in 2009
- Level within national classification (if applicable) 6 ISCED
  
- Duration (from – to) 1998 – 2001
- Name and type of institution Bucharest University of Economics, doctoral cycle
- Main subjects and qualifications Economy Cybernetics and Statistics, *Image processing by statistical and complex analysis*
- Name of qualification Diploma and title of *PhD in Economy Cybernetics and Statistics*, granted in 2002
- Level within national classification (if applicable) 6 ISCED
  
- Duration (from – to) 1996 – 1997
- Name and type of institution University of Bucharest, Faculty of Mathematics, advanced studies cycle (master)
- Main subjects and qualifications Informatics *Operating systems and parallel computing*
- Name of qualification Diploma and title of *Master in mathematics, Operating systems and*

<ul style="list-style-type: none"> <li>• Level within national classification (if applicable)</li> </ul>	<p><i>parallel computing</i> specialty 6 ISCED</p>
<ul style="list-style-type: none"> <li>• Duration (from – to)</li> <li>• Name and type of institution</li> <li>• Main subjects and qualifications</li> <li>• Name of qualification</li> <li>• Level within national classification (if applicable)</li> </ul>	<p>1990 -1995 University of Bucharest, Faculty of Mathematics</p>
	<p><i>Informatics</i> specialty Bachelor of Science diploma</p>
<ul style="list-style-type: none"> <li>• Duration (from – to)</li> <li>• Name and type of institution</li> <li>• Name of qualification</li> </ul>	<p>5 ISCED 1986 – 1990 <i>Nicolae Bălcescu</i> highschool, Bucureşti</p>
	<p>Bachelor diploma</p>
<p><b>PERSONAL ABILITIES AND COMPETENCES</b></p>	
<p>NATIVE TONGUE FOREIGN LANGUAGES</p>	<p><b>ROMANIAN</b></p>
<ul style="list-style-type: none"> <li>• Read</li> <li>• Write</li> <li>• Speak</li> </ul>	<p><b>ENGLISH</b> Very good Very good Very good</p>
<p>SOCIAL ABILITIES AND COMPETENCES</p>	<ul style="list-style-type: none"> <li>▪ Ability to work within a team and coordinate a team;</li> <li>▪ Good communication skills;</li> <li>▪ Open towards team-building activities;</li> <li>▪ Open for communication with students;</li> <li>▪ Pro-active, dynamic, flexible thought.</li> </ul>
<p>ORGANIZATIONAL ABILITIES AND COMPETENCES</p>	<ul style="list-style-type: none"> <li>▪ Coordination and planning abilities;</li> <li>▪ Experience in project management;</li> <li>▪ Ability to communicate the essential – good reporting abilities;</li> <li>▪ Ability to work with time constraints and deadlines;</li> <li>▪ Good analytical abilities;</li> <li>▪ Ability to logically support a premise;</li> <li>▪ Ability to identify strong points and weak points.</li> </ul>
<p>TECHNICAL ABILITIES AND COMPETENCES</p>	<ul style="list-style-type: none"> <li>▪ Specialist computer programming, pattern recognition, data mining, neuron-computing, image processing, machine learning;</li> <li>▪ Knowledge of following operating systems: Windows, Unix, Novell;</li> <li>▪ Knowledge of various informatics applications;</li> <li>▪ Long experience working with computers, faxes, copy machines, printers, video projectors etc.</li> </ul>
<p>OTHER ABILITIES AND</p>	<ul style="list-style-type: none"> <li>▪ Ability to understand and work with scientific concepts;</li> </ul>

**COMPETENCES** ▪ Author of numerous published books and papers.

**ADDITIONAL  
INFORMATION**

**1. Scientific titles:**

- PhD coordinator since 2009, in the field of *Economy Cybernetics and Statistics*; also in the field of *Economy Informatics* since 2010;

**2. Scientific prizes and awards:**

- National 3<sup>rd</sup> prize for research and development projects, under *Information and communications technologies* theme, for the project *development and testing of an automated system for risk analyses, diagnose and decision in assisting the medical act – pilot project* (member of the research team). Prize was awarded by the Ministry of Education, Research and Youth, National Agency for Scientific Research, 2007.
- *Georgescu Roegen Diploma*, awarded by the Bucharest University of Economy for research activity in the years, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006;
- *Excellency diploma Virgil Madgearu* for exceptional professional and scientific activity, awarded in 2006;
- *Anniversary diploma “35 years of Higher Economy Informatics Education”* for special merits in development of this field, awarded in 2000;
- Nominated for *Romanian Academy Prize* in 2004 for the book “Image compression and restoration”, published by Romanian Academy publishing house, 2002;

**3. Member of scientific societies, professional associations**

- Member of the *Asociation for promotion of higher education in economy informatics - INFOREC*
- Member of excellency research center ECOINFOSOC
- Member of professional organization IIIS (The International Institute of Informatics and Systemics)

**4. Member of organizing committee of international conferences**

- *International Conference on Neural Computation (ICNC) 2010, Valencia, Spain* – submitted for indexation by Thomson ISI, INSPEC and DBLP - [http://www.ncta.ijcci.org/ICNC2010/program\\_committee.asp](http://www.ncta.ijcci.org/ICNC2010/program_committee.asp)
- *Fourth International Conference on Internet Technologies and Applications 2011 (ITA 11)* Glyndwr University, Wrexham, North Wales (UK) –ranked B by ARC - <http://www.ita11.org/committees.html>
- *The 3<sup>rd</sup> International Conference on Neural Computation Theory and Applications 2011*, Paris, France – submitted for indexation by Thomson ISI, INSPEC and DBLP indexed

ISI and DBLP - [http://www.ncta.ijcci.org/NCTA2011/program\\_committee.asp](http://www.ncta.ijcci.org/NCTA2011/program_committee.asp)

- *The 4<sup>th</sup> International Conference on Neural Computation Theory and Applications*, part of the International Joint Conference on Computational Intelligence, 2012, Barcelona, Spain– submitted for indexation by Thomson ISI, INSPEC and DBLP indexed ISI and DBLP - <http://www.ncta.ijcci.org/ProgramCommittee.aspx?y=2012>
- *Fifth International Conference on Internet Technologies and Applications (ITA 13)*, Glyndwr University, Wrexham, North Wales, UK, 2013 - <http://www.ita13.org/committees/> - ranked B by ARC
- *The 5<sup>th</sup> International Conference on Neural Computation Theory and Applications*, part of the International Joint Conference on Computational Intelligence, Vilamoura, Algarve, Portugal, 2013, submitted for indexation by Thomson ISI, INSPEC and DBLP indexed ISI and DBLP - <http://www.ncta.ijcci.org/ProgramCommittee.aspx?y=2013>
- *The 6<sup>th</sup> International Conference on Neural Computation Theory and Applications*, part of the International Joint Conference on Computational Intelligence, Rome, Italy, 2014, submitted for indexation by Thomson ISI, INSPEC and DBLP indexed ISI and DBLP - <http://www.ncta.ijcci.org/ProgramCommittee.aspx?y=2014>
- *Sixth International Conference on Internet Technologies and Applications (ITA 2015)*, Glyndwr University, Wrexham, North Wales, UK, 2015 - <http://www.ita15.net/committees/> - ranked B by ARC and IEEE event
- *The 7<sup>th</sup> International Conference on Neural Computation Theory and Applications*, part of the International Joint Conference on Computational Intelligence, Lisbon, Portugal, 2015, submitted for indexation by Thomson ISI, INSPEC and DBLP indexed ISI and DBLP - <http://www.ncta.ijcci.org/ProgramCommittee.aspx>
- *MDIS 2015, Fourth International Conference on Modelling and Development of Intelligent Systems, October 28-November 1, Sibiu Romania* - [http://conferences.ulbsibiu.ro/mdis/2015/scientific\\_committee.php](http://conferences.ulbsibiu.ro/mdis/2015/scientific_committee.php)
- *IE 2016*, 15th International Conference on Informatics in Economy - [https://www.easychair.org/conferences/conference\\_change\\_yes.cgi?a=12455089](https://www.easychair.org/conferences/conference_change_yes.cgi?a=12455089)
- ICAT2E 2017, The 2017 International Conference on Advanced Technologies Enhancing Education, submitted for indexation by Compendex/EI, CPCI (\*), CPCI-SSH(ISTP indexing), Web of Science, Scholar Google - <http://icat2e.jimdo.com/committees/>
- *Seventh International Conference on Internet Technologies and Applications (ITA*

**5. Guest editor – Advances in Artificial Intelligence Journal** (check out <http://www.hindawi.com/journals/aai/ai/> for abstract and indexing), Special Issue *Artificial Intelligence Applications in Biomedicine* - <http://www.hindawi.com/journals/aai/osi/>

## **6. Special session organizer**

Conference: *13<sup>th</sup> ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing, Kyoto, Japan, 2012* – indexed by EI, INSPEC, DBLP and Thomson ISI - <http://mmde.is.kit.ac.jp/SNPD2012/>

Special session: Theoretical Developments and Special Topics of Machine Learning

## **7. Reviewer of international ISI indexed journals**

- Reviewer of *Optical Chinese Letter*

# **PUBLISHED WORKS**

## **1. PHD THESIS**

T1: «Procesarea imaginilor prin metode statistice și de analiză complexă”, conducător științific Profesor universitar doctor Ion Gh. Roșca, ASE, noiembrie 2001

T2 : «Analiza frecvență-timp a semnalelor cu aplicații”, conducător științific Profesor universitar doctor Luminița State, Universitatea din Pitești, septembrie 2008

## **2. BOOKS/ BOOK CHAPTERS**

1. **Cătălina-Lucia Cocianu**, Cristian Uscatu, *Programare evolutivă și algoritmi genetici*, Editura ASE, 2015, ISBN 978-606-505-872-9, 216 pagini
2. Cristian Uscatu, **Cătălina-Lucia Cocianu**, Marinela Mircea, Lorena Bătăgan, *Algoritmi și tehnici de programare. Aplicații*, Editura ASE, 2015, ISBN: 978-606-505-871-2, 178 pagini
3. Cristian Uscatu, **Cătălina-Lucia Cocianu**, Bogdan Ghilic-Micu, Marian Stoica, Marinela Mircea, *Algoritmi și tehnici de programare*, Editura ASE, 2014, ISBN: 978-606-505-774-6, 214 pag.
4. **Cătălina-Lucia Cocianu**, Cristian Uscatu, *Capitole speciale de calcul numeric cu aplicații*, Editura ASE, 2013, ISBN 978-606-505-720-3, 254 pagini
5. Bogdan Ghilic-Micu, Marian Stoica, Catalina Cocianu, Cristian Uscatu, Marinela Mircea, Lorena Batagan, *Bazele programării calculatoarelor. Suport de curs*, Editura ASE, 2013, ISBN: 978-606-505-757-9, 200 pag.
6. M.V. Ștefănescu, **Cătălina-Lucia Cocianu**, N. Mihaiță, S. Dedu, F. Șerban, *Analiza datelor și clasificare, cu aplicații în marketing, finanțe și știința conducerii*, Editura Printech, București, 2010, 147 pg., ISBN: 978-606-521-580-1
7. **Cătălina-Lucia Cocianu**, Luminița State, “*Tehnici de clasificare cu aplicații în analiza datelor document*”, Editura ASE, 2008, ISBN 978-606-505-080-8, 201 pagini
8. Ion Gh. Roșca, Bogdan Ghilic-Micu, **Cătălina-Lucia Cocianu**, Marian Stoica,

- Cristian Uscatu, Marinela Mircea "Programarea calculatoarelor. Algoritmi în programare", Editura ASE, 2007, ISBN 978-973-594-923-5, 220 pagini.
9. Ion Gh. Roșca, Bogdan Ghilic-Micu, **Cătălina-Lucia Cocianu**, Marian Stoica, Cristian Uscatu, Marinela Mircea, Lorena Bătăgan, Cătălin Silvestru, "Bazele programării calculatoarelor. Teorie și aplicații în C", Editura ASE, 2006, ISBN 973-594-591-6, 251 pagini.
10. Z. Gherasim, **Cătălina-Lucia Cocianu**, "Sisteme expert în economie", Ed. Fundatiei Romania de Maine, decembrie 2005, ISBN 973-725-396-5, 156 pagini
11. Ion Gh. Roșca, Bogdan Ghilic-Micu, **Cătălina-Lucia Cocianu**, Marian Stoica, Cristian Uscatu, "Programarea calculatoarelor. Știința învățării unui limbaj de programare", Ed. ASE, 220 pg., 2003, ISBN 973-594-243-7
12. **Cătălina-Lucia Cocianu**, "Compresia și restaurarea imaginilor", Ed. Academiei Române, 234 pg., 2002 , ISBN 973-27-0920-0
13. Ion Gh. Roșca, Bogdan Ghilic-Micu, Constantin Apostol, **Cătălina-Lucia Cocianu**, Marian Stoica, "Algoritmi în programare", Ed. ASE, 317 pg., 2002, ISBN 973-594-168-6
14. Ion Gh. Roșca, Bogdan Ghilic-Micu, **Cătălina-Lucia Cocianu**, Marian Stoica, Cristian Uscatu "Ştiința învățării unui limbaj de programare", Ed. ASE, 138 pg., 2002 , ISBN 973-594-057-4
15. Ion Gh. Roșca, Bogdan Ghilic-Micu, Constantin Apostol, Valer Roșca, **Cătălina-Lucia Cocianu**, "Programarea calculatoarelor. Tehnica programării în limbajul Pascal", Ed. ASE, 235 pg., 2002, ISBN 973-594-167-8
16. Ion Gh. Roșca, **Cătălina-Lucia Cocianu**, Cristian Uscatu, "Programarea calculatoarelor. Aplicații", Ed. ASE, 119 pg., 2002, ISBN 973-594-171-6
17. Doina Fusaru, Mioara Udrica, **Catalina-Lucia Cocianu**, "Programarea orientata pe obiecte", Ed. Fundatiei Romania de maine, 132 pg., 1999 , ISBN 973-582-153-4
18. Adriana Ionescu, **Cătălina-Lucia Cocianu**, "Fundamentele programării. Probleme rezolvate și propuse", Ed. ASE, 131 pg., 2000, ISBN 973-8127-18-1
19. Ion Gh. Roșca, Constantin Apostol, Bogdan Ghilic-Micu, Marian Stoica, **Cătălina-Lucia Cocianu**, Cristian Uscatu "Bazele elaborării programelor. Exerciții rezolvate și propuse", Ed. ASE, 220 pg., 1999, ISBN 973-98468-5-5
20. Book chapter: Luminita State, **Cătălina-Lucia Cocianu**, Panayiotos Vlamos, Statistical-Based Approaches for Noise Removal, Chapter In **Image Restoration - Recent Advances and Applications**, InTech, April, 2012, ISBN 978-953-51-0388-2

## Textbooks

1. Ion Gh. Roșca, Bogdan Ghilic-Micu, Marian Stoica, Radu Mărșanu, Anca Elena Voicu, Constantin Apostol, **Cătălina-Lucia Cocianu**, "Informatica", manual pentru clasa a IX-a, specializarea matematică-informatică, Ed. All, 1999, ISBN 973-684-070-0, 160 pagini
2. Ion Gh. Roșca, Luminița State, Bogdan Ghilic-Micu, **Cătălina-Lucia Cocianu**, Marian Stoica, Cristian Uscatu, "Informatica", manual pentru clasa a X-a, specializarea matematică-informatică, Ed. All, 2000, ISBN 973-684-277-0, 96 pagini
3. Ion Gh. Roșca, **Cătălina-Lucia Cocianu**, Cristian Uscatu, "Bazele Informaticii", manual pentru clasa a X-a, licee teoretice, Ed. All, 1999, ISBN 973-684-086-7, 64 pagini
4. Ion Gh. Roșca, Luminița State, **Cătălina-Lucia Cocianu**, "Bazele Informaticii", manual pentru clasa a XI-a, licee teoretice, Ed. All, 1999, ISBN 973-684-082-4, 88 pagini

### **3. ARTICLES AND PAPERS PUBLISHED IN JOURNALS AND CONFERENCE PROCEEDINGS**

1. **Cătălina Cocianu**, Hakob Grigoryan, *Machine Learning Techniques for Stock Market Prediction. A Case Study Of Omv Petrom Economic Computation and Economic Cybernetics Studies and Research*, Vol. 50, No. 3/2016, ISSN 0424-267X, pp. 63-82 (indexed by ISI Web of Knowledge, IF 0.42, SRI 0.049)
2. **Cătălina Cocianu** and Alexandru Stan, “Neural Architectures for Correlated Noise Removal in Image Processing,” *Mathematical Problems in Engineering*, vol. 2016, Article ID 6153749, 14 pages, 2016. doi:10.1155/2016/6153749 (indexed by ISI Web of Knowledge, IF 0.664, SRI 0.511); <http://www.hindawi.com/journals/mpe/2016/6153749/>
3. **Cătălina Cocianu**, Hakob Grigoryan, *An Artificial Neural Network for Data Forecasting Purposes*, *Informatica Economica*, Vol. 19, no. 2/2015, ISSN 1453-1305, (BDI indexed), pp.34-45
4. Luminita State, **Catalina Cocianu** and Marinela Mircea, *Improvements of the recognition and generalization capacities of the nonlinear soft margin support vector machines*, *Economic Computation and Economic Cybernetics Studies and Research*, Vol. 48, No. 4/2014, ISSN 0424-267X, pp. 17-38 (indexed by ISI Web of Knowledge, IF 0.42)
5. **Catalina Cocianu**, Luminita State, and Marinela Mircea, *GA-Based Attempts to Improve the Recognition Rate and Generalization Capacity of the Nonlinear Soft Margin Support Vector Machines*, in Proceedings of the 18<sup>th</sup> International Conference on System Theory, Control and Computing (ICSTCC 2014), October 2014, Institute of Electrical and Electronics Engineers ( IEEE ) 2014, pp. 885-890, ISBN 978-1-4799-4600-6
6. **Catalina Cocianu**, Luminita State, Cristian Uscatu, *Alternative strategies in learning nonlinear soft margin support vector machines*, *Informatica Economica*, Vol. 18, no. 2/2014, ISSN 1453-1305, (BDI indexed)
7. **Catalina Cocianu**, Luminita State, Cristian Uscatu, and Marinela Mircea, *A variant of SMO algorithm for learning nonlinear soft margin support vector machines* in: Proceedings of the 13th International Conference on Informatics in Economy (IE 2014), Education, Research & Business Technologies, Bucharest, Romania, May 2014, ISSN 2247-1480, Bucharest University of Economic Studies Press (BDI indexed)
8. **Catalina Cocianu**, Luminita State, *Kernel-Based Methods for Learning Non-Linear SVM*, *Economic Computation and Economic Cybernetics Studies and Research*, No. 1/2013, ISSN 0424-267X, pp. 41-60 (indexed by ISI Web of Knowledge)
9. Luminita State, **Catalina Cocianu**, Marinela Mircea, *Tuning the SVM Parameters to Class Variability*, *Advanced Science Letters*, 19, 3660-3664 (2013), ISSN: 1936-6612 (Print): EISSN: 1936-7317 (Online), American Scientific Publishers (BDI indexed)
10. Panayiotis Vlamos, Konstantinos Lefkimiatis, **Catalina Cocianu**, Luminita State, and Zhiyuan Luo, *Artificial Intelligence Applications in Biomedicine* (Editorial), *Advances in Artificial Intelligence*, Volume 2013 (2013), ISSN: 1687-7470 (Print) ISSN: 1687-7489 (Online), Hindawi Publishing Corporation, 2013(BDI indexed)
11. Luminita State, **Catalina Cocianu**, Cristian Uscatu, Marinela Mircea, *A survey on a class of SVM methodologies* in: Proceedings of the 12th International Conference on Informatics in Economy (IE 2013), Education, Research & Business Technologies, Bucharest, Romania, April 25-28, 2013, ISSN 2284-7472, ISSN-L 2247-1480, Bucharest University of Economic Studies Press, pp. 598-603. (BDI indexed)
12. **Catalina-Lucia Cocianu**, Luminita State, Marinela Mircea, and Panayiotis Vlamos, “A Faster Gradient Ascent Learning Algorithm for Nonlinear SVM,” *ISRN Applied Mathematics*, vol. 2013, ISSN: 2090-5572 (Online), Article ID 520635, 11 pages, 2013. doi:10.1155/2013/520635 (BDI indexed)

13. Luminița State, **Catalina Cocianu**, Cristian Uscatu, Marinela Mircea, *Extensions of the SVM Method to the Non-Linearly Separable Data*, Informatica Economica, Vol. 17, no. 2/2013, ISSN 1453-1305 (BDI indexed)
14. Luminița State, **Cătălina-Lucia Cocianu**, Marinela Mircea, *Heuristic Attempts to Improve the Generalization Capacities in Learning SVMs*, 13th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing, SNPD 2012, Kyoto, Japan, August 8-10, 2012. IEEE Computer Society 2012, ISBN 978-1-4673-2120-4 (submitted to be indexed by EI, INSPEC, Thomson ISI, DBLP Computer Science Bibliography; ranked C by ARC), pp. 108-113
15. Luminița State, **Cătălina-Lucia Cocianu**, *Mathematics Behind a Class of Image Restoration Algorithms*, Informatica Economica Vol. 16/No. 1/2012, pp. 37-49 ISSN 1453-1305 (BDI indexed)
16. **Cătălina-Lucia Cocianu**, Luminița State, Vlamos Panayiotis, *A New Method for Learning the Support Vector Machines*, Proceedings of the 6<sup>th</sup> International Conference on Software and Data Technology, ICSOFT 2011, Seville, Spain, INSTICC, SciTePress. 2011, ISBN 978-989-8425-77-5, pag. 365-370 (indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography; ranked B by ARC)
17. **Cătălina-Lucia Cocianu**, Luminița State, Cristian Uscatu, Raluca Stefan, *Learning from Data – A SVM Based Approach*, Economy Informatics Vol. XI, No.1/2011, ISSN 1582-7941 (BDI indexed)
18. **Cătălina-Lucia Cocianu**, Luminița State, Cristian Uscatu, Raluca Stefan, *Learning from Data – A SVM Based Approach*, in Proceedings of The Tenth International Conference On Informatics In Economy, Bucharest, May 5-6, 2011, ISSN:2247-1480, ISSN-L: 2247-1480
19. Luminița State, **Cătălina-Lucia Cocianu**, Panayiotis Vlamos, *A New Learning Algorithm of SVM from Linear Separable Samples*, Applied Mechanics and Materials Journal, Vol. 58-60, ISSN: 1660-9336, 2011, pp. 983-988(BDI indexed)
20. Luminița State, **Cătălina-Lucia Cocianu**, Panayiotis Vlamos, *New and Old Developments in Solving Specific Image Processing Tasks*, Economic Computation and Economic Cybernetics Studies and Research, No. 4/2010, ISSN 0424-267X, pp. 67-86 (indexed by ISI Web of Knowledge)
21. Luminița State, **Cătălina-Lucia Cocianu**, Doina Fusaru, *A Survey on Potential of the Support Vector Machines in Solving Classification and Regression Problems* Informatica Economica Vol. XIV/No. 3/2010, pp. 128-139 ISSN 1453-1305 (BDI indexed)
22. Luminița State, **Cătălina-Lucia Cocianu**, Doru Constantin, Corina Săraru, Vlamos Panayiotis, *Toward a Semi-supervised Approach in Classification based on Principal Directions*, IN: Proceedings of the International Conference on Signal Processing and Multimedia Applications, SIGMAP 2009, is part of [ICETE](#) 2009, the International Joint Conference on e-Business and Telecommunications, Milan, Italy, INSTICC Press 2009 , ISBN 978-989-674-005-4, pp. 68-73 (indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography, ranked C by ARC)
23. Luminița State, **Cătălina-Lucia Cocianu**, Corina Săraru, Vlamos Panayiotis, *New Approaches in Image Compression and Noise Removal*, SPACOMM 2009, Colmar, France, IN:Proceedings of the First International Conference on Advances in Satellite and Space Communications, SPACOMM 2009, IEEE Proceedings, IEEE Computer Society Press, 2009, ISBN: 978-0-7695-3694-1, pag. 96- 101, (indexed by ISI Web of Knowledge, IEEE Xplore, INSPEC)
24. **Cătălina-Lucia Cocianu**, Luminița State, Vlamos Panayiotis, Doru Constantin,Corina Sararu *PCA Supervised and Unsupervised Classifiers in Signal Processing*, PRIS 2009, IN:Proceedings of The 9th International Workshop on Pattern Recognition in Information Systems (PRIS 2009), 2009 - Milan- Italy, In conjunction with the 11st International Conference on Enterprise Information Systems (ICEIS 2009), INSTICC PRESS 2009, ISBN 978-989-8111-89-0, pag. 61-70 (indexed by ISI Web of Knowledge, INSPEC, DBLP

- Computer Science Bibliography, ranked C by ARC)
25. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, *Using Sample Principal Directions for Getting Homogenous Clusters*, ITA 2009, Wrexham, UK, IN:Proceedings of The Third International Conference on Internet Technologies and Applications, ISBN 978-0-946881-65-9, pp. 131-140 (ranked B by ARC)
26. **Cătălina-Lucia Cocianu**, Luminița State, Panayiotis Vlamos, *Neural Implementation of a Class of PCA Learning Algorithms*, Economic Computation and Economic Cybernetics Studies and Research, Vol. , No 3/2009, pp. 141-154, ISSN 0424-267X (indexed by ISI Web of Knowledge)
27. **Cătălina-Lucia Cocianu**, Luminița State, D. Constantin, C. Sararu, "Partially Supervised Approach in Signal Recognition", *Informatica Economica* Vol. XIII/No. 3/2009, pp. 153-164, ISSN 1453-1305 (BDI indexed)
28. **Cătălina-Lucia Cocianu**, Luminița State, D. Constantin, *New Attempts in Solving Signal Recognition Task*, The 9th International Conference on Informatics in Economy, May 2009, Bucharest, IN: The Proceedings of the 9th International Conference on Informatics in Economy, ASE Printing House, pp. 668-673, ISBN:978-606-505-172-2
29. Ion Roșca, L. State, **Cătălina-Lucia Cocianu**, *Learning Schemes in Using PCA Neural Networks for Image Restoration Purposes*, WSEAS Transactions on Information Science and Applications, Vol. 5, July 2008, ISSN: 1790-0832, pp. 1149-1159 (BDI indexed)
30. Luminița State, **Cătălina-Lucia Cocianu**, Panayiotis Vlamos, V. Ștefănescu, *A New Unsupervised Learning Scheme to Classify Data of Relative Small Volume*, Economic Computation and Economic Cybernetics Studies and Research, 2008, ISSN 0424-267X, pp. 128-139 (indexed by ISI Web of Knowledge)
31. Luminița State, **Cătălina-Lucia Cocianu**, Ion Rosca, Vlamos Panayiotis , *A New Learning Algorithm For Classification In The Reduced Space*, ICEIS 2008 Barcelona, Spain, June 12-16, IN:Proceedings of the 10th International Conference on Enterprise Information Systems, ICEIS 2008, ISBN 978-989-8111-37-1, pp. 155-160. (indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography, ranked C by ARC)
32. Ion Rosca, Luminița State, **Cătălina-Lucia Cocianu**, *Investigations on the Potential of PCA Based Neural Implementation Attempts in Solving Specific Tasks in Image Processing*, WSEAS 2008, Bucharest, June 24-26, IN: Proceedings of the 9th WSEAS Int. Conf. on MATHEMATICS&COMPUTERS IN BUSINESS AND ECONOMICS, Bucharest, Romania, June 24-26, 2008, ISBN: 978-960-6766-76-3, ISSN 1790-5109, pp. 116-124 (indexed by ISI Web of Knowledge)
33. **Cătălina-Lucia Cocianu**, Luminita State, Vlamos Panayiotis, Doru Constantin, *Decorrelation Techniques in Image Restoration*, IN:Proceedings of the International Conference on Signal Processing and Multimedia Applications, SIGMAP 2008, part of ICETE 2008, Porto, Portugal, INSTICC Press 2008, ISBN 978-989-8111-60-9, pp. 193-196 (.indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography, ranked C by ARC)
34. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, Doru Constantin, *Neural Approaches to Image Compression/Decompression Using PCA Based Learning Algorithms*, PRIS 2008, June 12-13, IN:Proceedings of The 8th International Workshop on Pattern Recognition in Information Systems (PRIS 2008) 12-13 June, 2008 - Barcelona – Spain In conjunction with the 10th International Conference on Enterprise Information Systems (ICEIS 2008), ISBN 978-989-8111-42-5, pp. 187-192 .(indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography, ranked C by ARC)
35. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis *An Unsupervised Skeleton Based Method to Discover the Structure of the Class System*, IEEE Research Challenges in Information Science -RCIS 2008, Marrakech, Morocco. In: *Proceedings of RCIS 2008*, IEEE Proceedings, IEEE Computer Society Press, 2008, ISBN: 978-1-4244-1677-6, pag. 169-178 (indexed by ISI Web of Knowledge, IEEE Xplore, ranked B by ARC)

36. Cătălina-Lucia Cocianu, Luminița State, Vlamos Panayiotis, *A New Adaptive PCA Scheme for Noise Removal in Image Processing*, 50th International Symposium ELMAR-2008, September 10-12, Zadar, Croatia. In: *Proceedings of ELMAR 2008*, IEEE Proceedings, ISBN 978-953-7044-06-0, ISSN 1334-2630, pag. 129-132 (indexed by ISI Web of Knowledge, IEEE Xplore)
37. **Cătălina-Lucia Cocianu**, Luminița State, V. Stefanescu, Vlamos Panayiotis "Denoising Techniques Based on the Multiresolution Representation", *Informatica Economica* Vol. XII/No. 2 (46)/2008, pp. 29-35 ISSN 1453-1305 (BDI indexed)
38. **Cătălina-Lucia Cocianu**, Luminița State, Panayiotis Vlamos, *Principal Axes – Based Classification with Application in Gaussian Distributed Sample Recognition*, Economic Computation and Economic Cybernetics Studies and Research, Vol. 41, No 1-2/2007, pp. 159-166, ISSN 0424-267X (indexed by ISI Web of Knowledge)
39. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, Doru Constantin *Principal Directions - Based Algorithm for Classification Tasks*, IN:Proceedings of Ninth International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2007) 26-29 September 2007 in Timisoara, Romania, IEEE Computer Society Press, 2007, ISBN: 978-0-7695-3078-9, pag. 137-143 (indexed by ISI Web of Knowledge, ranked C by ARC)
40. **Cătălina-Lucia Cocianu**, Luminița State, Ion Rosca, Panayiotis Vlamos, *A New Adaptive Classification Scheme Based on Skeleton Information*, SIGMAP 2007 Barcelona, Spain, July 28-31, IN:Proceedings of 2nd International Conference on Signal Processing and Multimedia Applications, SIGMAP 2007, part of ICETE 2007, the International Joint Conference on e-Business and Telecommunications, ISBN 978-989-8111-13-5, pp. 85-92 .(indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography, ranked C by ARC)
41. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, Viorica Stefanescu, *A Connectionist Approach in Bayesian Classification*, ICEIS 2007 Madeira, Portugal, June 12-16, IN:Proceedings of 9th International Conference on Enterprise Information Systems, ICEIS 2007, ISBN 978-972-8865-91-7, pp.185-190 .(indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography, ranked C by ARC)
42. Luminița State, **Cătălina-Lucia Cocianu**, Viorica Ștefănescu, Vlamos Panayiotis, Fuzzy modeling and Bayesian Interface Network, *Informatica Economică*, Nr. 44/2007, pag. 68-71, ISSN 1453-1305 (BDI indexed)
43. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, *The Use of Features Extracted from Noisy Samples for Image Restoration Purposes*, *Informatica Economică*, Nr. 41/2007, pp. 73-78, ISSN 1453-1305 (BDI indexed)
44. Luminița State, **Cătălina-Lucia Cocianu**, *Data Mining Techniques in Processing Medical Knowledge*, Journal of Applied Quantitative Methods, Vol 2, Nr.4., winter 2007, pag. 517-532, ISSN:18424562 (BDI indexed)
45. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, *Neural Network for Principal Component Analysis with Applications in Image Compression*, JSCI Journal, vol 5, nr. 2/2007, pag. 62-65, ISSN 1690-4524 (BDI indexed)
46. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, Viorica Stefanescu, *PCA-Based Data Mining Probabilistic and Fuzzy Approaches with Applications in Pattern Recognition* ICSOFT 2006, Portugal, IN: Proceedings of the First International Conference on Software and Data Technology, ICSOFT 2006, ISBN 972-8865-69-4, pp. 55-60. (indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography, ranked B by ARC)
47. **Cătălina-Lucia Cocianu**, Doina Fusaru, *New Approach of Supervised Learning for Pattern Classification Purposes*, Proceedings of the International Conference on Knowledge Management – Projects, Systems and Technologies, Volume II, November 9 – 10, 2006, București, IN:The second supplement of the review *Informatica Economică*, pag. 123-128, Volume X /2006, ISSN 1453-1305 (CNCSIS B)

48. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, Viorica Stefanescu, *PCA-Based Learning Algorithm for Solving Recognition Task*, KCC 2006 (the International Symposium on Knowledge Communication and Conferences), in the framework of WMSCI 2006, Orlando, USA, 2006, IN:Proceedings of WMSCI 2006, ISBN 980-6560-69-8, 9-14 (indexed by ISI Web of Knowledge)
49. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, Viorica Stefanescu, *PCA-Based Attempt to Noise Reduction in Terms of Predictive Techniques*, WMSCI 2006 (the 10th World Multiconference on Systemics, Cybernetics and Informatics), Orlando, USA, 2006, IN:Proceedings of WMSCI 2006, ISBN 980-6560-70-3, pag. 299-304 (indexed by ISI Web of Knowledge)
50. **Cătălina-Lucia Cocianu**, Luminița State, Vlamos Panayiotis, Viorica Stefanescu, *Noise Reduction in Image Processing Based on an Adapted Version of the Innovation Algorithm*, Analele Universitatii București, Matematică-Informatică, Bucuresti, 2006, ISSN 1010-5433 (BDI indexed)
51. **Cătălina-Lucia Cocianu**, Luminița State, Viorica Stefanescu, *Multiresolution Based Approaches for Noise Removal Purposes*, Economic Computation and Economic Cybernetics Studies and Research, Vol. 40, No 1-2/2006, pg. 157-168, ISSN 0424-267X (BDI indexed)
52. **Cătălina-Lucia Cocianu**, *Supervised and Unsupervised Classification for Pattern Recognition Purposes*, Informatica Economică, Nr. 40/2006, pp.5-13, ISSN 1453-1305 (CNCSIS B)
53. **Cătălina-Lucia Cocianu**, *Image Restoration Using Noisy ICA, PCA Compression and Code Shrinkage Technique*, Informatica Economică, Nr. 37/2006, 2006, ISSN 1453-1305 (CNCSIS B)
54. **Catalina-Lucia Cocianu**, Luminita State, Vlamos Panayiotis, Viorica Stefanescu, *PCA Based Shrinkage Attempt to Noise Removal*, the 35th Conference on Computers and IE, Istanbul, Turkey, 2005, IN:Proceedings of 35<sup>th</sup> ICC&IE, ISBN 975-561-265-3, 6 pag.
55. Luminita State, **Catalina-Lucia Cocianu**, Vlamos Panayiotis, Viorica Stefanescu, *New Attempts in Boundary Detection*, CCCT 2005, USA, July, 2005, IN:Proceedings of the 3<sup>rd</sup> International Conference on Computing, Communications and Control Technologies (CCCT 2005), USA, July, 2005, ISBN 980-6560-46-9, pag. 220-225 (indexed by ISI Web of Knowledge)
56. Luminita State, **Catalina-Lucia Cocianu**, Vlamos Panayiotis, Viorica Stefanescu, "Noise Removal Algorithm Based on Code Shrinkage Technique", The 9th World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2005), Orlando, USA, July, 2005, IN:Proceedings of WMSCI 2005 ISBN 980-6560-54-3, pag. 51-56 (indexed by ISI Web of Knowledge)
57. **Catalina-Lucia Cocianu**, *Principal Component Analysis in Signal Processing*, the 7<sup>th</sup> International Symposium of Economic Informatics, Bucharest, May 2005, IN:Proceedings of the 7<sup>th</sup> International Symposium of Economic Informatics, INFOREC Publishing House, 2005, pp. 1013-1019, ISBN 973-8360-014-8
58. **Cătălina-Lucia Cocianu**, *Independent Component Analysis*, Informatica Economica, Vol. IX, nr. 33/2005, ISSN 1453-1305, pag. 56 (CNCSIS B)
59. **Cătălina-Lucia Cocianu**, *Principal Component Analysis with Applications in Image Restoration*, Informatica Economică, Nr. 1-4/2004, pp. 91-94, 2004, ISSN 1453-1305 (CNCSIS B)
60. **Cătălina-Lucia Cocianu**, *Estimarea parametrilor unui model Markov ascuns*, Informatica Economică, Vol. 8, Nr. 3/2004, pp. 117-122, 2004, ISSN 1453-1305 (CNCSIS B)
61. **Cătălina-Lucia Cocianu**, *Modele HMM pentru prelucrarea semnalului sonor*, Informatica Economică, Vol. 8, Nr. 1/2004, pp. 130-134, 2004, ISSN 1453-1305 (CNCSIS B)
62. **Cătălina-Lucia Cocianu**, Luminița State, Viorica Stefanescu, Vlamos Panayiotis, "The Use of Wavelet Representation For Noise Removal Purposes in Image Processing", International Conference on Computing, Communications and Control Technologies (CCCT 2004),

- August 14-17, 2004, Austin, Texas, USA, IN:Proceedings of CCCT '04, pag. 242-247, ISBN 980-6560-17-5 (indexed by ISI Web of Knowledge)
63. Luminița State, **Cătălina-Lucia Cocianu**, Viorica Ștefănescu, Vlamos Panayiotis, *A Neural Network Framework for Implementing the Bayesian Learning*, 1<sup>st</sup> International Conference on Informatics in Control, Automation and Robotics, ICINCO 2004, August 25-28, Setubal, Portugal, IN:Proceedings of of 1<sup>st</sup> International Conference on Informatics in Control, Automation and Robotics, INSTICC Press, pp. 328-331, 2004, ISBN 972-8865-12-0 (indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography)
64. **Cătălina-Lucia Cocianu**, Luminița State, Viorica Ștefănescu, Vlamos Panayiotis, *On the Efficiency of a Certain Class of Noise Removal Algorithms in Solving Image Processing Tasks*, 1<sup>st</sup> International Conference on Informatics in Control, Automation and Robotics, ICINCO 2004, August 25-28, Setubal, Portugal, IN:Proceedings of 1<sup>st</sup> International Conference on Informatics in Control, Automation and Robotics, ICINCO 2004, INSTICC Press, pp. 320-323, 2004, ISBN 972-8865-12-0 (indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography)
65. **Cătălina-Lucia Cocianu**, Luminița State, Viorica Ștefănescu, Vlamos Panayiotis, *Wavelet Based Techniques in Image Processing*, SCI 2004, Orlando, USA, July 18-21, IN:Proceedings of SCI 2004, pp. 321-326, 2004, ISBN 980-6560-13-2 (indexed by ISI Web of Knowledge)
66. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, *On the Efficiency of a Class of PCA Algorithms in Digital Signal Processing*, SYNASC 2003, Timisoara, oct. 2003, IN:Proceedings of SYNASC 2003 pp. 266-276, ISBN 973-661-104-3 (ranked C by ARC)
67. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, *Neural Approaches for HMM-Based Bayesian Procedure Learning*, The 6<sup>th</sup> International Symposium of Economic Informatics, Bucharest, May 2003, IN:Proceedings of the 6<sup>th</sup> International Symposium of Economic Informatics, pp. 402-408, ISBN 973-8360-02-1
68. Luminița State, **Cătălina-Lucia Cocianu**, Viorica Ștefănescu, Vlamos Panayiotis, *A Comparative Analysis on the Performance of a certain class of PCA Algorithms in solving Image Processing tasks*, the 7th WMSCI, Orlando, USA, July 27-30, IN:Proceedings of SCI 2003, 2003, 6 pg., ISBN 980-6560-01-9 (indexed by ISI Web of Knowledge)
69. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, *Neural Network for Principal Component Analysis with Applications in Image Compression*, The joint meeting of the International Conference on Computer, Communication and Control Technologies (CCCT '03) and the 9th International Conference on Information Systems Analysis and Synthesis (ISAS '03), Orlando, USA, July 31 - August 2, 2003 IN:Proceedings of the joint meeting of the International Conference on Computer, Communication and Control Technologies (CCCT '03) and the 9th International Conference on Information Systems Analysis and Synthesis (ISAS '03). ISBN 980-6560-05-1, pag. 525-529 (indexed by ISI Web of Knowledge, ranked C by ARC)
70. Luminița State, **Cătălina-Lucia Cocianu**, *A Connectionist Approach of the Bayesian Pattern Classifier Adaptive Learning*, Romanian Journal of Information Science and Technology (ROMJIST), Volume 6, Numbers 1-2, pp. 249-259, 2003, Publishing House of the Romanian Academy, ISSN 1453-8245 (BDI indexed)
71. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, *Non parametric Approach to learning the Bayesian Procedure for Hidden Markov Models*, The 6th World Multiconference on Systemics, Cybernetics and Informatics (SCI2002), Orlando, July 2002, IN:Proceedings of SCI2002, Orlando, July 2002, 362-366, ISBN 980-07-8150-1 (indexed by ISI Web of Knowledge)
72. **Cătălina-Lucia Cocianu**, Luminița State, Vlamos Panayiotis, *A Comparative Study on the Efficiency of Noise Removal Algorithms*, International Conference on Computer&Industrial Engineering (ICC&IE), Tinos Island, June-July, Greece, 2002, IN: Proceedings of 30<sup>th</sup> International Conference on Computer&Industrial Engineering (ICC&IE), 2002, 6 pg., ISBN

73. **Cătălina-Lucia Cocianu**, Luminița State, Vlamos Panayiotis, *On a Certain Class of Algorithms for Noise Removal in Image Processing: A Comparative Study*, Third IEEE Conference on Information Technology ITCC-2002, April 2-8 2002, Orleans, Las Vegas, USA, IN:Proceedings of ITCC-2002, IEEE Computer Society, pp. 111-116, 2002, ISBN 0-7695-1506-1 (indexed by ISI Web of Knowledge, INSPEC, DBLP Computer Science Bibliography, ranked C by ARC)
74. I. Roșca, D. Colibaba, Cta Mihăescu, B. Onete, **C. Cocianu**, G. Grădinaru, I. Isaac-Maniu, A. Mitruț, M. Lăpadat, C. Silvestru, *Analiza pieței asigurărilor din România și elaborarea cadrului conceptual privind relațiile digitale*, Economia, Ed. ASE, 2002, ISSN 1454-0320
75. Ctin Mituț, V. Voineagu, T. Furtună, **Cătălina-Lucia Cocianu**, D. Șerban, S. Cristache, D. Pele, *Crearea și implementarea în România a modelelor și metodelor de analiză și prognoză folosite de țările europene și recomandate de EUROSTAT*, Economia, Ed. ASE, pp. 263-287, 2002, ISSN 1454-0320
76. **Cătălina-Lucia Cocianu**, Luminița State, Tudor Bălănescu, Gabriela Zamfir, *Studiu asupra transmiterii imaginilor medicale*, Economia, Ed. ASE, pp. 90-98, 2002, ISSN 1454-0320
77. C. Bodea, **Cătălina-Lucia Cocianu**, V. Bodea, M. Munteanu, C. Brândăș, C. Duguleană, L. Duguleană, E. Dobre, *Implementarea pilot a sistemului de benchmarking destinat perfecționării managementului proiectelor de cercetare științifică universitară*, Economia, Ed. ASE, pp. 58-70, 2002, ISSN 1454-0320
78. **Cătălina-Lucia Cocianu**, *Tehnici de filtrare utilizate pentru restaurarea multirezoluție a semnalelor*, Informatica Economică, Vol. 6, Nr. 2/2002, pp 50-53, ISSN 1453-1305 (CNCSIS B)
79. Constantin Mitruț, Luminița State, Alexandru Isaac-Maniu, Dana Șerban, **Cătălina Cocianu**, Silvia Cristache, *Tendințe în evoluția proporțiilor și corelațiilor macroeconomice din perspectiva restructurării economiei naționale*, Economia, Ed. ASE, pp. 239-249, 2001, ISSN 1454-0320
80. Cătălin Bălescu, **Cătălina-Lucia Cocianu**, Luminița State, Viorica Ștefănescu, *Parametrii de calitate în analiza estetică a imaginii artistice*, Informatica Economică, Vol V, Nr.1, pp. 79-92, 2001, ISSN 1453-1305 (CNCSIS B)
81. **Cătălina-Lucia Cocianu**, Luminița State, *Informational and spectral techniques in Boundary Detection*, Informatica Economică, Vol I, Nr.1, 2001, ISSN 1453-1305
82. Stancu Stelian, Dorin Mitruț, **Cătălina-Lucia Cocianu**, *Negocierea firmă-sindicat, ca un joc cooperativ*, Informatica Economică, nr 20/2001, ISSN 1453-1305
83. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, *Attempts in Using Statistical Tools for Image Restoration Purposes*, The 5th World Multiconference on Systemics, Cybernetics and Informatics (SCI2001), Orlando, USA, July 22-25, 2001, IN:The Proceedings of SCI2001, 2001 IEEE Computer Society Press, 6 pg., ISBN 980-07-7545-5.
84. **Cătălina-Lucia Cocianu**, Luminița State, *Predictive techniques in image compression/decompression*, The 5<sup>th</sup> International Symposium of Economic Informatics, May 2001, Bucharest, IN:Proceedings of the 5<sup>th</sup> International Symposium of Economic Informatics, May 2001, pp. 402-408, ISBN 973-99450-4-X
85. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, *A Regressive Technique of Image Restorations*, The 29<sup>th</sup> International Conference on Computer&Industrial Engineering (ICC&IE), Nov. 1-3 2001, Montreal, Canada IN:The Proceedings of the 29<sup>th</sup> International Conference on Computer&Industrial Engineering (ICC&IE), ISBN 2-921145-27-8
86. Luminița State, **Cătălina-Lucia Cocianu**, Vlamos Panayiotis, *A Multirezolution Based Approach of Data Compression/Decompression*, The 29<sup>th</sup> International Conference on Computer&Industrial Engineering (ICC&IE), Nov. 1-3 2001, Montreal, Canada, IN:The Proceedings of the 29<sup>th</sup> International Conference on Computer&Industrial Engineering (ICC&IE), ISBN 2-921145-27-8
87. Luminița State, **Cătălina-Lucia Cocianu**, Viorica Ștefănescu, *A Genetic Approach of*

*Boundary Enhancement in Image Processing*, The 27<sup>th</sup> International Conference on Computer&Industrial Engineering (ICC&IE), 11-13 oct 2000, Beijing, IN:Proceedings of the 27<sup>th</sup> ICC&IE, 2000, 5 pg., CD ISBN 7-900043-38-1

88. Lumița State, **Cătălina-Lucia Cocianu**, Viorica Ștefănescu, *A New Approach of Image Restoration*, The 27<sup>th</sup> International Conference on Computer&Industrial Engineering (ICC&IE), 11-13 oct 2000, Beijing, IN:Proceedings of the 27<sup>th</sup> ICC&IE, 2000, 6 pg., CD ISBN 7-900043-38-1
89. Constantin Mitruț, Alexandru Isaac-Maniu, Lumița State, **Cătălina Cocianu**, Dana Șerban, Irina Isaac-Maniu, *Cercetări privind tehnici avansate de modelare a fenomenului inflaționist în contextul economic actual*, Economia, Ed. ASE, pp. 89-111, 2000, ISSN 1454-0320
90. Lumița State, **Cătălina-Lucia Cocianu**, *Analiza multirezoluție pentru compresia/decompresia datelor*, Informatica Economică, Vol IV, Nr.2 (14), pp. 61-69, 2000, ISSN 1453-1305
91. Lumița State, **Cătălina-Lucia Cocianu**, *Statistical Based Approaches of Image Restoration*, The 12<sup>th</sup> International Conference on Control Systems and Computer Science, CSCS 12, Bucharest, May 1999, IN:Proceedings of the 12<sup>th</sup> International Conference on Control Systems and Computer Science, 1999, 6 pg, ISBN 973-96609-5-9
92. Lumița State, **Cătălina-Lucia Cocianu**, *New Approach of Image Restoration*, The 4th International Symposium of Economic Informatics, May 1999, Bucharest, IN:Proceedings of the 4th International Symposium of Economic Informatics, 1999, pp. 56-62, ISBN 973-98508-5-5
93. Lumița State, **Cătălina-Lucia Cocianu**, *A Regressive Technique of Image Restoration*, Economic Computation and Economic Cybernetics Studies and Research, No 1-4/1998, pg. 135-146, ISSN 0424-267X
94. Lumița State, Doina Fusaru, **Cătălina-Lucia Cocianu**, *Restaurarea frontierelor unei imagini: abordare genetică*, Informatica Economică, Vol III, Nr.12 , pp. 80-86, 1999, ISSN 1453-1305
95. Lumița State, **Cătălina-Lucia Cocianu**, *Restaurarea imaginilor perturbate normal utilizând coeficientul Bhattacharyya*, Vol II, Informatica Economică, Nr.8, pp. 42-46, 1998, ISSN 1453-1305
96. **Cătălina-Lucia Cocianu**, *Restaurarea imaginilor perturbate normal utilizând matrice de imprastiere*, Informatica Economică, Vol II , Nr.5, pp. 13-17, 1998, ISSN 1453-1305
97. **Cătălina-Lucia Cocianu**, *Imbunatatirea contrastului unei imagini utilizând procedee de modificare a histogramei*, Informatica economică, Vol. 1, Nr. 2, pp. 36-41, 1997, ISSN 1453-1305
98. Lumița State, **Cătălina-Lucia Cocianu**, *Determinarea caracteristicilor lineare optimale din punct de vedere informațional în compresia/decompresia datelor*, Informatica Economică, Vol. 1, Nr. 4, pp. 33-43, 1997, ISSN 1453-1305
99. **Cătălina-Lucia Cocianu**, *Tehnici de filtrare în detectarea de frontiere*, Informatica Economică, Vol. 1, Nr. 1, pp. 69-76, 1997, ISBN 973-97435-4-4
100. **Cătălina-Lucia Cocianu**, *Filtering Based Techniques for Boundary Detection*, Analele Universității București, seria Matematică-Informatică, anul XLVI/1997, pp. 165-170, ISSN 1010-5433
101. Ion Gh. Roșca, Ion Teodor, Doina Fusaru, **Cătălina-Lucia Cocianu**, *Major Strategical Options for Company Management Policy*, The 3rd International Symposium of Economic Informatics, May 1997, Bucharest, IN:Proceedings of the 3rd International Symposium of Economic Informatics, 1997, pp. 831-834, ISBN 973-97435-2-8
102. **Cătălina-Lucia Cocianu**, *One Pixel Based Techniques for Image Enhancement*, The 3rd International Symposium of Economic Informatics, May 1997, Bucharest, IN:Proceedings of the 3rd International Symposium of Economic Informatics, 1997, pp. 831-834, ISBN 973-97435-2-8
103. **Cătălina-Lucia Cocianu (Fusaru)**, *A Pixel by Pixel Technique for Boundary Detection*,

Analele Universitatii Bucureşti, seria Matematică-Informatică, Bucuresti, anul XLV/1996, No. 2, pp. 33-36, ISSN 1010-5433

104. Luminiţa State, **Cătălina-Lucia Cocianu**, Maria Miroiu, *HMM Learning of the Bayesian Procedure for Pattern Recognition Purposes*, The 2<sup>nd</sup> National Conference on Artificial Intelligence and Digital Communications, Craiova, June 2002, IN:Proceedings of the 2<sup>nd</sup> National Conference on Artificial Intelligence and Digital Communications, 2002, pp. 19-28, ISBN 973-8419-04-X

#### **4. RESEARCH PROJECTS**

1. **EMANICS – Management Solutions for Next Generation Networks, the Sixth Framework of the European Community, contract number 026854:** 2006-2008. Member of the research team of the University of Pitesti
2. **TEHNICI DE CLASIFICARE SI RECUNOASTERE CU APLICATII IN IDENTIFICAREA SIMILARITATII DOCUMENTELOR (CRIS)**, tema nr. 419, CNCSIS, A, 2008. Project manager
3. **Analiza datelor și clasificare, cu aplicații în marketing, finanțe și știința conducerii**, CNCSIS, PROGRAM IDEI, COD ID\_627, 2008-2010. Member of the research team
4. **TEHNICI DE CLASIFICARE SI RECUNOASTERE CU APLICATII IN IDENTIFICAREA SIMILARITATII DOCUMENTELOR (CRIS)**, tema nr. 419, CNCSIS, A, 2007. Project manager
5. **MILEDI**: Data Mining si Machine Learning Pentru Detectarea Intruziunilor- MILEDI, Program A- CNCSIS 1158, 2007-2008. Member of the research team of the University of Pitesti
6. **MADINE**, program A, cod CNCSIS 514, 2006-2007. Member of the research team of the University of Pitesti
7. **Optimizari in proiectarea sistemelor mobile de comunicatie: aplicatii in transmiterea si prelucrarea semnalelor imagistice**, contract nr 128, CNCSIS, AT, 2006. Project manager
8. **Dezvoltarea și testarea unui sistem automat de analiză a riscului, diagnoză și decizie pentru asistarea actului medical – proiect pilot**, contract nr. 12/06.10.2005, contract CEEX Modul I , Member of the research team
9. **Cibermarketing & Blog – o nouă paradigmă media pentru exploatarea resurselor și valorilor culturii digitale**, contract CEEX-ET cod 62, 2006-2008. Member of the research team
10. **Transmiterea și analiza imaginilor în telemedicină**, faza Studiu asupra transmiterii imaginilor medicale, cod 22, contract CNCSIS, nr. 33480/2002, tip AT, 2002. CNCSIS. Project manager
11. **Implementarea metodologiei statistice EUROSTAT de analiză și prognoză în sectorul întreprinderilor mici și mijlocii din România**, cod 895, 33480/2002, CNCSIS, Member of the research team
12. **Cercetare privind negocierea si derularea contractelor economice**, CNCSIS 23, contract AT , 2002. Member of the research team
13. **Studiul rețelelor de asigurări on-line în România și soluții pentru integrarea lor în sistemul european**, cod 452, contract 33480/2002, contract AT, 2002, CNCSIS. Member of the research team
14. **Transmiterea și analiza imaginilor în telemedicină**, faza Tehnici de restaurare în analiza imaginilor medicale, cod B2, contract CNCSIS, nr.7017/2001, T, 2001. Project manager
15. **Cercetări privind tendințele în evoluția proporțiilor și a corelațiilor macroeconomice din perspectiva restructurării economiei naționale**, contract cu C.N.C.S.I.S., cod 739, 2001, 2001. Member of the research team
16. **Cercetări privind tehnici avansate de modelare a fenomenului inflaționist în contextul economic actual**, 2000, cod C.N.C.S.I.S. 394, 2000. Member of the research team

17. Tehnici statistice și evoluționiste de prelucrare a semnalelor cu aplicații în procesarea imaginilor, 1999, cod C.N.C.S.I.S. 105. Member of the research team
18. Cercetări privind instrumente avansate de optimizare evolutionista și modelare stochastica in previziunea economico-financiara si fiabilitate, 1999, cod C.N.C.S.I.S.54, Member of the research team
19. Cercetări privind realizarea unor instrumente avansate pentru orientarea decidenților în vederea administrării și conducerii societăților comerciale în condițiile economiei de piață, tema A9, finanțator M.C.T., 1999. Member of the research team
20. Modele statistice in prelucrarea imaginilor si tehnici multimedia, 1998, cod C.N.C.S.U. (actual CNCSIS) 25, tema nr. 8. Member of the research team

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