

Ștefan-Gheorghe PENTIUC

curriculum vitae

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ACTUAL POSITION

- Professor, Computer Science
- PhD Supervisor

EDUCATION

- Ph.D. in Computer Science in 1993 at Politehnica University of Bucharest, Romania
- Engineer Diploma in Computer Science in 1977 at Politehnica University of Bucharest, Faculty Automation and Computer Science, Romania, GPA 9.26/10 over 5 years
- Foreign languages: French (1), English(2)

ACADEMIC POSITIONS

Academic positions at University Ștefan cel Mare Suceava

1996 – 2008, Scientific Secretary of the Faculty

2008 – 2020, Dean of the Faculty

2000 – present, Ph.D. Supervisor

1997 – present, full professor at the Computer Science Department

1994-1997, associate professor at the Computer Science Department

1990-1994, lecturer at the Computer Science Department

2004 – present, Director of the Research Center in Computer Science from the University of Suceava (research center recognized by the national authority CNCSIS)

Visiting Academic Positions

2009 – invited researcher at INRIA Nord, Lille, France

2003 – invited professor at Universite des Sciences et Technologies de Lille

2002 – visiting professor at Universite des Sciences et Technologies de Lille

2000 – visiting professor at Universite des Sciences et Technologies de Lille

2000 – invited researcher at Institute Galilee, Universite Paris Nord

1994 – visiting associate professor at Universite des Sciences et Technologies de Lille

Others Positions

2001- present Associate Editor of Journal Advances in Electrical and Computer Engineering, ISSN 1582-7445 (journal evaluated as Class B by the national authority CNCSIS, all journals in this category are likely to win international recognition)

1994– 2001, Associate Editor The Annals of the "Stefan cel Mare" University, Electrical Section, ISSN 1222-4316

Co-editor of the volumes: Information Technology (2003), Distributed Systems (2004), Distributed Processing (2005).

Expert INTAS Belgia Expert CNCSIS

TEACHING EXPERIENCE

- Pattern Recognition (first book published in 1996)
- Distributed Programming (Java Servlets, JavaScript, PHP, Android)
- Programming Languages (C/C++, Java)
- Data Structures and Algorithms
- Machine Learning

RESEARCH EXPERIENCE

Research experience in Pattern Recognition (first experiments in 1980) and human-computer interaction based on gestures (4 PhD theses completed in 2004-2013).

Participation in 12 national projects, in 5 of them as coordinator, and participation in 4 international research projects.

Supervised 17 PhD thesis validated by CNATDCU, including 2 international and 3 national joint degrees.

Selected papers and/or grants

- INTEROB (Gestures Based Interaction with Information and Robotics Systems) grant 131-CEEX-II-03, director of the consortium USV, UAIC, AGIR, ProIng (2006-2008).
- A. Florea, St.Gh. PENTIUC, D. Kayser (2004), Intelligence artificielle et agents intelligents (in French) Ed. Printech Bucarest, ISBN 973-652-976-2, 420 pages)
- PENTIUC Stefan-Gheorghe, Generatoare de sisteme expert (Expert Systems Generators), Hipparion, Cluj-Napoca, ISBN: 973-9448-48-8, 112 pag., (2000)

AWARDS AND DISTINCTIONS, MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

- one gold medal and one silver at two invention exhibitions,
- Best Paper Award given by the International Academy Research and Industry Association,
- two CNCSIS awards.

- Member of the CNATDCU committee for granting PhD titles in Computer and Information Technology between 2008 and 2012.
- Founding member of the Romanian Association for Artificial Intelligence, member of the Romanian Society of Automation and Computer Engineering.
- Associate Editor of the Journal Advances in Electrical and Computer Engineering, ISSN 1582-7445 (ISI Impact Factor 0.560 in 2014)

BOOKS

1. St. Gh. Pentiuc (2006), Java – Data Structures and Algorithms (in Romanian), Ed. MATRIXROM Bucharest, 255 pages
2. A. Florea, St.Gh. PENTIUC, D. Kayser (2004), Intelligence artificielle et agents intelligents (in French) Ed. Printech Bucurest, ISBN 973-652-976-2, 420 pages
3. Șt. Gh. PENTIUC (2001), Elements of Internet Applications Programming (in Romanian), Ed. Mediamira Cluj-Napoca, ISBN 973-9358-62-4, 160 pages
4. Șt. Gh. PENTIUC (2000), Expert Systems Generators (in Romanian), Ed. Hipparion, Cluj-Napoca, ISBN 973-9448-48-8, 112 pag.
5. St. Gh. Pentiuc (1997), Applications of Pattern Recognition in Automate Diagnosis (in Romanian), Ed. Tehnica, Bucharest, ISBN 973-31-1096-5, 155 pages.
6. St. Gh. Pentiuc (1996), Pattern Recognition - Methods, Programs, Applications (in Romanian), Ed. Universitatii "Stefan cel Mare" Suceava, ISBN 973-97787-5-5, 255 pag.
7. St.Gh. PENTIUC, E. Turcu, C.Turcu, D. Bălan (1993), C Language, Implementation Techniques (in Romanian), Editura Licurici Suceava, ISBN 973-95737-1-1, 112 pag.
8. St.Gh. Pentiuc, Radu Daniel Vatavu (2009), Algorithms and Programming Techniques in Java (in Romanian), Ed. Universității Suceava, 294 pag.
9. Books Chapter: Radu-Daniel Vatavu, Ovidiu-Ciprian Ungurean, Ștefan-Gheorghe Pentiuc. (2011). Body Gestures for Office Desk Scenarios. In D. England (Ed.), Whole Body Interaction (pp. 163-172). SpringerHuman-Computer Interaction Series. London: Springer-Verlag. doi:10.1007/978-0-85729-433-3_13
9. Books Chapter: Popescu D., F.Teodorescu, Gh.PENTIUC, Concept privind cercetarea sistemelor multidimensionale prin metode de analiză si recunoașterea formelor. Volumul "Inteligență artificială și robotică industrială", Editura Academiei, București1983, pag.242 248
10. Books Chapter: T.Homos, Adrian Simescu , Gh.Pentiuc, Al.Miron,, Simulator pentru conducerea industrială la nivel de atelier", Automatica, management, calculatoare, vol.32, Ed.Tehnică București 1980, p.138 149

Papers indexed in ISI Thomson Reuters Web of Science

1. On free-hand TV control: experimental results on user-elicited gestures with Leap Motion By: Zaiti, Ionut-Alexandru; Pentiu, Stefan-Gheorghe; Vatavu, Radu-Daniel, PERSONAL AND UBIQUITOUS COMPUTING Volume: 19 Issue: 5-6 Pages: 821-838 Published: AUG 2015, DOI=10.1007/s00779-015-0863-y **(Q2)**
2. Single-scan: a fast star-join query processing algorithm By: Purdila, Vasile; Pentiu, Stefan-Gheorghe, SOFTWARE-PRACTICE & EXPERIENCE Volume: 46 Issue: 3 Pages: 319-339 Published: MAR 2016 <http://onlinelibrary.wiley.com/doi/10.1002/spe.2308/full> **(Q2)**
3. L. Bilius and S. G. Pentiu, Efficient Unsupervised Classification of Hyperspectral Images Using Voronoi Diagrams and Strong Patterns, SENSORS, Volume: 20 Issue: 19, Article Number: 5684, DOI: 10.3390/s20195684, WOS:000587236000001 **(Q1)**
4. Bilius, L.B.; Pentiu, S.G. „Unsupervised Clustering for Hyperspectral Images”, Symmetry, 12, 277; DOI: 10.3390/sym12020277, <https://www.mdpi.com/2073-8994/12/2/277,2020>, ISSN 2073-8994, WOS:000521147600138 **(Q2)**
5. Alaci, Stelian; Musca, Ilie; Pentiu, Stefan-Gheorghe, Study of the Rolling Friction Coefficient between Dissimilar Materials through the Motion of a Conical Pendulum, MATERIALS, eISSN: 1996-1944, Volume: 13 Issue: 21 Article Number: 5032 Published: NOV 2020, WOS:000589407200001, **(Q2)**
6. L. Bilius and S. G. Pentiu, "Improving the Analysis of Hyperspectral Images Using Tensor Decomposition", 2020 International Conference on Development and Application Systems (DAS), Suceava, Romania, pp. 173-176, doi: 10.1109/DAS49615.2020.9108935, WOS:000589776100032
7. Laura-Bianca Bilius ; Stefan-Gheorghe Pentiu ; David Brie ; Sebastian Miron, Analysis of Hyperspectral Images Using Supervised Learning Techniques, 2019 23rd International Conference on System Theory, Control and Computing (ICSTCC), Year: 2019, Conference Paper, Publisher: IEEE doi:10.1109/ICSTCC.2019.8885627, <https://ieeexplore.ieee.org/abstract/document/8885627>, WOS:000590181100114, ISBN:978-1-7281-0699-1, ISSN: 2372-1618
8. Pentiu, Stefan-Gheorghe; Vultur, Oana-Mihaela, "Drive Me": a Interaction System Between Human and Robot, Conference: 14th International Conference on Development and Application Systems (DAS) Location: Suceava, ROMANIA Date: MAY 24-26, 2018, Sponsor(s): Stefan Cel Mare Univ Suceava, Fac Elect Engn & Comp Sci; IEEE Ind Applicat., Soc, Romania Section, 2018 14TH INTERNATIONAL CONFERENCE ON DEVELOPMENT AND APPLICATION SYSTEMS (DAS) Pages: 144-14 , WOS:000467080400027
9. Interactive coffee tables: Interfacing TV within an intuitive, fun and shared experience, By: Vatavu, Radu-Daniel; Pentiu, Stefan-Cheorghe, Edited by: Tscheligi, M; Obrist, M,

Conference: 6th European Conference on EuroITV 2008 Location: Salzburg, AUSTRIA
Date: JUL 03-04, 2008, Sponsor(s): IFIP; CITIZEN MEDIA; Telekom Austria; Nokia;
Microsoft Mediaroom; Ruwido; Cablelink by Salzburg AG; Univ Salzburg, ICT&S Ctr, Adv
Studies & Res Informat & Commun Technol & Soc; ACM Assoc Comp Machinery; ACM
SIGCHI; ACM SIGMM; ACM SIGWEB; NAMU; EuroITV; UITV INFO, CHANGING
TELEVISION ENVIRONMENTS, PROCEEDINGS Book Series: LECTURE NOTES IN
COMPUTER SCIENCE Volume: 5066 Pages: 183-187 Published: 2008

10. Speech Therapy Programs for a Computer Aided Therapy System, By: Pentiu, S. G.; Schipor, O. A.; Danubianu, M.; et al., Elektronika ir Elektrotechnika Issue: 7 Pages: 87-90 Published: 2010
11. Gesture Recognition Based on Elastic Deformation Energies, By: Vatavu, Radu-Daniel; Grisoni, Laurent; Pentiu, Stefan-Gheorghe, Edited by: Dias, MS; Gibet, S; Wanserley, MM; et al., Conference: 7th International Gesture Workshop Location: Lisbon, PORTUGAL Date: MAY 23-25, 2007, GESTURE-BASED HUMAN-COMPUTER INTERACTION AND SIMULATION Book Series: Lecture Notes in Artificial Intelligence Volume: 5085 Pages: 1-12 Published: 2009
12. Translation of the Speech Therapy Programs in the Logomon Assisted Therapy System, By: Pentiu, Stefan-Gheorghe; Tobolcea, Iolanda; Schipor, Ovidiu Andrei; et al., ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 10 Issue: 2 Pages: 48-52 Published: 2010
13. IMPROVING COMPUTER BASED SPEECH THERAPY USING A FUZZY EXPERT SYSTEM, By: Schipor, Ovidiu-Andrei; Pentiu, Stefan-Gheorghe; Schipor, Maria-Doina, COMPUTING AND INFORMATICS Volume: 29 Issue: 2 Pages: 303-318 Published: 2010
14. The Utilization of Feedback and Emotion Recognition in Computer based Speech Therapy System, By: Schipor, O. A.; Pentiu, S. G.; Schipor, M. D., Elektronika ir Elektrotechnika Issue: 3 Pages: 101-104 Published: 2011
15. MULTI-LEVEL REPRESENTATION OF GESTURE AS COMMAND FOR HUMAN COMPUTER INTERACTION, By: Vatavu, Radu-Daniel; Pentiu, Stefan-Gheorghe, COMPUTING AND INFORMATICS Volume: 27 Issue: 6 Pages: 837-851 Published: 2008
16. Improving cooperation in E-commerce by integrated data mining methods in Web-environments, By: Hamburg, I; Pentiu, SG; Dorinel, BS, Edited by: Johannsen, G., Conference: 8th IFAC Symposium on Analysis, Design and Evaluation of Human-Machine Systems Location: KASSEL, GERMANY Date: SEP 18-20, 2001, Sponsor(s): Int Federat Automat Control, TC Human Machine Syst; Int Federat Operat Res Soc; Int Federat Informat Proc; Int Ergon Assoc, ANALYSIS, DESIGN AND EVALUATION OF HUMAN-MACHINE SYSTEMS 2001 Book Series: IFAC SYMPOSIA SERIES Pages: 141-145 Published: 2002
17. End-User Recommendations on LOGOMON, a Computer Based Speech Therapy System for Romanian Language, By: Schipor, Doina-Maria; Pentiu, Stefan-Gheorghe; Schipor, Ovidiu-Andrei, ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 10 Issue: 4 Pages: 57-60 Published: 2010

18. Interacting with Gestures: An Intelligent Virtual Environment, By: Vatavu, Radu Daniel; Pentiu, Stefan-Gheorghe, Edited by: Vlada, M; Albeanu, G; Popovici, D., Conference: 1st International Conference on Virtual Learning Location: Bucharest, ROMANIA Date: OCT 27-29, 2006, Sponsor(s): Univ Bucharest, Fac Math & Comp Sci; SIVCO Romania; MEd, Natl Author Sci Res; Coca Cola; COMENIUS Hands Sci; ARRE; Agora Media; Market Watch, IT & C; Modern Professors Portal; MEdC, SEI Educ Portal; CNCSIS Book Series: Proceedings of the International Conference on Virtual learning Pages: 291-297 Published: 2006
19. Detecting and Tracking Multiple Users in the Proximity of Interactive Tabletops, By: Tanase, Cristian Andy; Vatavu, Radu-Daniel; Pentiu, Stefan-Gheorghe; et al., ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 8 Issue: 2 Pages: 61-64 Published: 2008
20. Real-Time 3D Hand Gestures Recognition for Manipulation of Industrial Robots, By: Cerlinca, T.; Pentiu, S. G.; Vlad, V., Elektronika ir Elektrotechnika Volume: 19 Issue: 2 Pages: 3-8 Published: 2013
21. Novel Interface for Simulation of Assembly Operations in Virtual Environments, By: Craciun, Elena-Gina; Grisoni, Laurent; Pentiu, Stefan-Gheorghe; et al., ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 13 Issue: 1 Pages: 47-52 Published: 2013
22. An Efficient Solution for Hand Gesture Recognition from Video Sequence, By: Prodan, Remus-Catalin; Pentiu, Stefan-Gheorghe; Vatavu, Radu-Daniel, ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 12 Issue: 3 Pages: 85-88 Published: 2012
23. Toward Automatic Recognition of Children's Affective State Using Physiological Parameters and Fuzzy Model of Emotions, By: Schipor, Ovidiu-Andrei; Pentiu, Stefan-Gheorghe; Schipor, Maria-Doina, ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 12 Issue: 2 Pages: 47-50 Published: 2012
24. Using a Fuzzy Emotion Model in Computer Assisted Speech Therapy, By: Schipor, Ovidiu A.; Pentiu, Stefan G.; Schipor, Maria D., Edited by: Dicheva, D; Markov, Z; Stefanova, E, Conference: 3rd International Conference on Software, Services and Semantic Technologies Location: Sofia Univ, Bourgas, BULGARIA Date: SEP 01-03, 2011, THIRD INTERNATIONAL CONFERENCE ON SOFTWARE, SERVICES AND SEMANTIC TECHNOLOGIES S3T 2011 Book Series: Advances in Intelligent and Soft Computing Volume: 101 Pages: 189-193 Published: 2011
25. Advanced Information Technology - Support of Improved Personalized Therapy of Speech Disorders, By: Danubianu, M.; Pentiu, S. G.; Tobolcea, I.; et al., INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 5 Issue: 5 Pages: 684-692 Published: DEC 2010
26. Multiscale Detection of Gesture Patterns in Continuous Motion Trajectories, By: Vatavu, Radu-Daniel; Grisoni, Laurent; Pentiu, Stefan-Gheorghe, Edited by: Kopp, S; Wachsmuth, I, Conference: 8th International Gesture Workshop Location: Bielefeld

Univ, Ctr Interdisciplinary Res, Bielefeld, GERMANY Date: FEB 25-27, 2009, GESTURE IN EMBODIED COMMUNICATION AND HUMAN-COMPUTER INTERACTION Book Series: Lecture Notes in Artificial Intelligence Volume: 5934 Pages: 85-97 Published: 2010

27. Towards the Optimized Personalized Therapy of Speech Disorders by Data Mining Techniques, By: Danubianu, Mirela; Pentiu, Stefan Gheorghe; Socaciu, Tiberiu, Edited by: Danubianu, M; Noll, J; Dini, C, Conference: 4th International Multi-Conference on Computing in the Global Information Technology Location:Cannes, FRANCE Date: AUG 23-29, 2009, 2009 FOURTH INTERNATIONAL MULTI-CONFERENCE ON COMPUTING IN THE GLOBAL INFORMATION TECHNOLOGY (ICCGI 2009) Pages: 20-25 Published: 2009
28. Control of a Mobile Robot by Human Gestures, By: Pentiu, Stefan-Gheorghe; Vultur, Oana Mihaela; Ciupu, Andrei, Edited by: Zavoral, F; Jung, JJ; Badica, C., Conference: 7th International Symposium on Intelligent Distributed Computing (IDC) Location: Charles Univ, Prague, CZECH REPUBLIC Date: SEP 04-06, 2013, Sponsor(s): Charles Univ, Fac Math & Phys, Dept Software Engn; Univ Craiova, Software Engn Dept., INTELLIGENT DISTRIBUTED COMPUTING VII Book Series: Studies in Computational Intelligence Volume:511 Pages: 217-222 Published: 2014
29. Fast Decision Tree Algorithm, By: Purdila, Vasile; Pentiu, Stefan-Gheorghe, ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 14 Issue: 1 Pages: 65-68 Published: 2014
30. Data Dimensionality Reduction Framework for Data Mining, By: Danubianu, M.; Pentiu, St Gh., Elektronika ir Elektrotechnika Volume: 19 Issue: 4 Pages: 87-90 Published: 2013
31. Data Dimensionality Reduction for Data Mining: A Combined Filter-Wrapper Framework, By: Danubianu, Mirela; Pentiu, Stefan Gheorghe; Danubianu, Dragos Mircea, INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 7 Issue: 5 Pages: 824-831 Published: DEC 2012
32. Interface for Gestural Interaction in Virtual Reality Environments, By: Pentiu, St. Gh.; Craciun, E. G.; Grisoni, L., Elektronika ir Elektrotechnika Issue: 5 Pages: 97-100 Published: 2012
33. A parallel approach for Monte Carlo-based photon propagation simulation, By: Rusu, Ionela; Pentiu, Stefan-Gheorghe; Ungurean, Ioan; et al., Book Group Author(s): Natl Inst Res & Dev Isotop & Mol Technologies, Conference: 5th Romania Tier 2 Federation Grid, Cloud and High Performance Computing Science (RO-LCG)Location: Cluj Napoca, ROMANIA Date: OCT 25-27, 2012 , Sponsor(s): Inst Elect & Elect Engineers; Natl Inst Res & Dev Isotop & Mol Technologies; Natl Author Sci Res; Romanian Tier 2 Federat, 2012 5TH ROMANIA TIER 2 FEDERATION GRID, CLOUD & HIGH PERFORMANCE COMPUTING SCIENCE (RO-LCG) Pages: 78-81 Published: 2012
34. Automatic Assessment of Pronunciation Quality of Children within Assisted Speech Therapy, By: Schipor, O. A.; Pentiu, S. G.; Schipor, M. D., Elektronika ir Elektrotechnika Issue: 6 Pages: 15-18 Published: 2012

35. High-Performance Computing on a Supercomputer Based on New-Generation Processors, By: Ungurean, Ioan; Rusu, Ionela; Pentiu, Stefan-Gheorghe, Book Group Author(s): Natl Inst Res & Dev Isotop & Mol Technologies, Conference: 5th Romania Tier 2 Federation Grid, Cloud and High Performance Computing Science (RO-LCG) Location: Cluj Napoca, ROMANIA Date: OCT 25-27, 2012 , Sponsor(s): Inst Elect & Elect Engineers; Natl Inst Res & Dev Isotop & Mol Technologies; Natl Author Sci Res; Romanian Tier 2 Federat, 2012 5TH ROMANIA TIER 2 FEDERATION GRID, CLOUD & HIGH PERFORMANCE COMPUTING SCIENCE (RO-LCG) Pages: 96-99 Published: 2012
36. Navigation System in a Virtual Environment by Gestures, By: Vultur, Oana Mihaela; Pentiu, Stefan Gheorghe; Ciupu, Andrei, Book Group Author(s): IEEE, Conference: 9th International Conference on Communications (COMM) Location: Bucharest, ROMANIA Date: JUN 21-23, 2012, Sponsor(s): Mil Tech Acad; Politehnica Univ Bucharest; IEEE Romania Sect; Romanian Acad Tech Sci; Orange; MRV; Romkatel; Analizoare; MarcTel; Interactive Syst & Business Consulting; RSS; Rohde & Schwarz; CSR; Astro; Beia; IEEE 2012 9TH INTERNATIONAL CONFERENCE ON COMMUNICATIONS (COMM) Pages: 111-114 Published: 2012
37. Robust 3D Hand Detection for Gestures Recognition, By: Cerlinca, Tudor Ioan; Pentiu, Stefan Gheorghe, Edited by: Brazier, FMT; Nieuwenhuis, K; Pavlin, G; et al., Conference: 5th International Symposium on Intelligent Distributed Computing (IDC 2011) Location: D CIS Lab, Delft, NETHERLANDS Date: OCT 05-07, 2011, Sponsor(s): Thales Res & Technol; Delft Univ Technol, INTELLIGENT DISTRIBUTED COMPUTING V Book Series: Studies in Computational Intelligence Volume: 382 Pages: 259-264 Published: 2011
38. System for Short Term Forecast of Electric Power Consumption in a Distributed Company, By: Pentiu, R.; Ungurean, O. C.; Pentiu, S. G.; et al., Elektronika ir Elektrotechnika Issue: 1 Pages: 75-78 Published: 2011
39. Multilevel Parallelization of Unsupervised Learning Algorithms in Pattern Recognition on a Roadrunner Architecture, By: Pentiu, Stefan-Gheorghe; Ungurean, Ioan, Edited by: Brazier, FMT; Nieuwenhuis, K; Pavlin, G; et al., Conference: 5th International Symposium on Intelligent Distributed Computing (IDC 2011) Location: D CIS Lab, Delft, NETHERLANDS Date: OCT 05-07, 2011 , Sponsor(s): Thales Res & Technol; Delft Univ Technol, INTELLIGENT DISTRIBUTED COMPUTING V Book Series: Studies in Computational Intelligence Volume: 382 Pages: 71-80 Published: 2011
40. Body Gestures for Office Desk Scenarios, By: Vatavu, Radu-Daniel; Ungurean, Ovidiu-Ciprian; Pentiu, Stefan-Gheorghe, Edited by: England, D., WHOLE BODY INTERACTION Book Series: Human-Computer Interaction Series Pages: 163-172 Published: 2011
41. Middleware Based Model of Heterogeneous Systems for SCADA Distributed Applications, By: Gaitan, Nicoleta-Cristina; Gaitan, Vasile Gheorghita; Pentiu, Stefan Gheorghe; et al., ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 10 Issue: 2 Pages: 121-124 Published: 2010
42. Analysis of Huge Volume of Documents on a Hybrid HPC Cluster, By: Pentiu, Stefan-Gheorghe; Ungurean, Ioan, Edited by: Essaaidi, M; Malgeri, M; Badica, C., Conference: 4th International Symposium on Intelligent Distributed Computing Location: Tangier,

MOROCCO Date: SEP, 2010, Sponsor(s): IEEE Morocco Sect; Univ Craiova, Software Engn Dept, Fac Automat Comp & Elect., INTELLIGENT DISTRIBUTED COMPUTING IV Book Series: Studies in Computational Intelligence Volume:315 Pages: 275-282 Published: 2010

43. Using Resources Provided by Cell Broadband Engine in order to Develop an Application of Hierarchical Data Clustering, By: Ungurean, Ioan; Pentiu, Stefan-Gheorghe; Gaitan, Vasile Gheorghita; et al., Edited by: Brad, R., Conference: 9th RoEduNet IEEE International Conference Location: Sibiu, ROMANIA Date: JUN 24-26, 2010, Sponsor(s): Minist Educ, Res & Innovat; ARNIEC/RoEduNet Agcy; IEEE Romanian Sect; Univ Sibiu, Lucian Blaga; BOROMIR; Confucius Inst, 9TH ROEDUNET IEEE INTERNATIONAL CONFERENCE Pages: 224-227 Published: 2010
44. Performance Evaluation of an Experimental Grid Computer using MPI Applications, By: Ungurean, I.; Pentiu, S. G.; Gaitan, V., Elektronika ir Elektrotechnika Issue: 5 Pages: 55-58 Published: 2009
45. Facilitating Selection and Travel Tasks in Virtual Environments using a Motion Sensitive Hand-Held Device, By: Vatavu, Radu-Daniel; Ungurean, Ovidiu-Ciprian; Pentiu, Stefan-Gheorghe, Edited by: Letia, IA, Conference: IEEE 5th International Conference on Intelligent Computer Communication and Processing Location: Cluj Napoca, ROMANIA Date: AUG 27-29, 2009, Sponsor(s): IEEE, 2009 IEEE 5TH INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTER COMMUNICATION AND PROCESSING, PROCEEDINGS Book Series: International Conference on Intelligent Computer Communication and Processing ICCP Pages: 329-334 Published: 2009
46. Modeling Shapes for Pattern Recognition: A Simple Low-Cost Spline-based Approach, By: Vatavu, Radu-Daniel; Pentiu, Stefan-Gheorghe; Grisoni, Laurent; et al., ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 8 Issue: 1 Pages: 67-71 Published: 2008
47. Mathematical analysis applied for of heart signals, By: Milici, L. D.; Pentiu, St. Gh.; Milici, M. R., Book Group Author(s): IEEE, Conference: 4th IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems Location: Dortmund, GERMANY Date: SEP 06-08, 2007, Sponsor(s): Ternopil Natl Econ Univ, Res Inst Intelligent Comp Syst; Univ Appl Sci Dortmund; Deutsch Forschungsgemeinsch; REW Syst AG; IEEE Instrumentat & Management Soc; Res Inst Intelligent Comp Syst, IDAACS 2007: PROCEEDINGS OF THE 4TH IEEE WORKSHOP ON INTELLIGENT DATA ACQUISITION AND ADVANCED COMPUTING SYSTEMS: TECHNOLOGY AND APPLICATIONS Book Series: IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems-Technology and Applications-IDAACS Pages: 304-307 Published: 2007
48. E-learning application for the Modeling and studying of data acquisition system's working, By: Milici, L. D.; Milici, M. R.; Pentiu, St. Gh., Conference: 4th IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems Location: Dortmund, GERMANY Date: SEP 06-08, 2007, Sponsor(s): Ternopil Natl Econ Univ, Res Inst Intelligent Comp Syst; Univ Appl Sci Dortmund; Deutsch Forschungsgemeinsch; REW Syst AG; IEEE Instrumentat & Management Soc; Res Inst Intelligent Comp Syst, IDAACS 2007: PROCEEDINGS OF THE 4TH IEEE WORKSHOP ON

INTELLIGENT DATA ACQUISITION AND ADVANCED COMPUTING SYSTEMS: TECHNOLOGY AND APPLICATIONS Book Series: IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems-Technology and Applications-IDAACS Pages: 545-549 Published: 2007

49. Optimizing the Forward Algorithm for Hidden Markov Model on IBM Roadrunner clusters, By: Soiman, Stefania-Iuliana; Rusu, Ionela; Pentiu, Stefan-Gheorghe, ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 15 Issue: 2 Pages: 103-108 Published: 2015
50. Parallelization of Similarity Matrix Calculus in Ontology Mapping Systems, By: Giza-Belciug, Felicia; Pentiu, Stefan-Gheorghe, Book Group Author(s): IEEE, Conference: 14th RoEduNet International Conference on Networking in Education and Research (RoEduNet NER) Location: Craiova, ROMANIA Date: SEP 24-26, 2015, Sponsor(s): RoEduNet; IEEE; IEEE Comp Soc, 2015 14TH ROEDUNET INTERNATIONAL CONFERENCE - NETWORKING IN EDUCATION AND RESEARCH (ROEDUNET NER) Book Series: RoEduNet International Conference Pages: 50-55 Published: 2015
51. Real-time Gestural Interface for Navigation in Virtual Environment , By: Vultur, Oana-Mihaela; Pentiu, Stefan-Gheorghe; Lupu, Valeriu, Conference: 13th International Conference on Development and Application Systems (DAS) Location: Suceava, ROMANIA Date: MAY 19-21, 2016, Pages: 303-307 Published: 2016
52. Study of a Random Navigation on the Web Using Software Simulation, Mioc, Mirella Amelia; Pentiu, Stefan-Gheorghe, BRAIN-BROAD RESEARCH IN ARTIFICIAL INTELLIGENCE AND NEUROSCIENCE Volume: 6 Issue: 1-2 Pages: 97-105 Published: SEP 2015 BRAIN. Broad Research in Artificial Intelligence and Neuroscience 6 (1-2) WOS:000372466800010, ISSN: 2067-3957
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