

Lista publicațiilor

Conf. dr. Istvan Gergely CZIBULA

I Articole de specialitate: 80

Ia Articole cotate ISI: 39

Articole în publicații din ISI Science Citation Index Expanded: 19

1. Șerban, G., Câmpan, A., **Czibula, I.G.**, *A Programming Interface For Finding Relational Association Rules*, International Journal of Computers, Communications and Control, Vol. I/2006, Proceedings of the International Conference on Computers, Communications and Control, ICCCC 2006, Oradea, 2006, pp. 934-944
2. **Czibula, I.G.**, Lazăr, L.C., Lazăr, I., Motogna, S., Pârv, B., *ComDeValCo Development Tools for Procedural Paradigm*, International Journal of Computers, Communications and Control, Vol. 3, Proceedings of the International Conference on Computers, Communications and Control, ICCCC 2008, Oradea, 2008, pp. 243-247
3. **Czibula, I.G.**, Șerban, G., *Hierarchical clustering based design patterns Identification*, International Journal of Computers, Communications and Control, Vol. 3, Proceedings of the International Conference on Computers, Communications and Control, ICCCC 2008, Oradea, 2008, pp. 248-252
4. Czibula, G., **Czibula, I.G.**, *Incremental Refactoring Using Seeds*, SIC Journal, Studies in Informatics and Control, Vol. 19, Issue. 3, 2010, pp. 271-284
5. Lazăr, L.C., Lazăr, I., Pârv, B., Motogna, S., **Czibula, I.G.**, *Tool support for fUML Models*, International Journal of Computers, Communications and Control, Vol. 5, No. 5, 2010, pp. 770-777
6. Czibula, G., Cojocar, G.S., **Czibula, I.G.**, *Evaluation Measures For Partitioning Based Aspect Mining Techniques*, International Journal of Computers, Communications and Control, 6(1), 2011, pp. 72-80
7. Bocicor, M. I., Czibula, G., **Czibula, I.G.**, *A Distributed Q-Learning Approach to Fragment Assembly*, SIC Journal, Studies in Informatics and Control, Vol. 20, Issue. 3, 2011, pp. 221-232
8. Czibula, G., **Czibula, I.G.**, *Unsupervised Restructuring of Object-Oriented Software Systems using Self-Organizing Feature Maps*, International Journal of Innovative Computing Information and Control, Japan, Volume 8, No. 3(A), 2012, pp. 1689-1704
9. Czibula, G., Bocicor, M. I., **Czibula, I.G.**, *Promoter Sequences Prediction Using Relational Association Rule Mining*, Evolutionary Bioinformatics, Vol. 8, 2012, pp. 181-196
10. Zsuzsanna Marian, Gabriela Czibula, **Istvan Gergely Czibula**, *Using Software Metrics for Automatic Software Design Improvement*, Studies in Informatics and Control, ISSN 1220-1766, vol. 21 (3), pp. 249-258, 2012
11. Czibula, G., **Czibula, I.G.**, Găceanu, R.D., *Intelligent Data Structures Selection using Neural Networks*, Knowledge and Information Systems, Volume 34, Issue 1, 2013, Page 171-192

12. Czibula, G., Crişan C.G., Pinteau, M.C, **Czibula, I.G.**, *Soft computing approaches on the bandwidth problem*, Informatica, Vilnius, Lithuania, 2013, Vol. 24, No. 1, pp. 1–12
13. Czibula, G., Bocicor, M. I., **Czibula, I.G.**, *Temporal Ordering of Cancer Microarray Data through a Reinforcement Learning Based Approach*, PlosOne journal, 8(4): e60883, doi:10.1371/journal.pone.0060883, 2013
14. Gabriela Czibula, Zsuzsanna Marian, **Istvan Gergely Czibula**, *Software Defect Prediction using Relational Association Rule Mining*, Information Sciences, Vol. 264, April 2014, pp. 260-278
15. Czibula, G., **Czibula, I.G.**, Găceanu, R.D., *A Support Vector Machine Model For Intelligent Selection of Data Representations*, Applied Soft Computing, Volume 18, May 2014, Pages 70–81
16. Gabriela Czibula, **Istvan Gergely Czibula**, *Software systems performance improvement by intelligent data structures customization*, Information Sciences, 2014, Vol. 274, pp. 249-260
17. Gabriela Czibula, Zsuzsanna Marian, **Istvan Gergely Czibula**, *Detecting Software Design Defects Using Relational Association Rule Mining*, Knowledge and Information Systems, Vol. 42, Number 3, 2015, pp. 545-577
18. Gabriela Czibula, **Istvan Gergely Czibula**, Adela Sîrbu, Ioan-Gabriela Mircea, *A novel approach to adaptive relational association rule mining*, Applied Soft Computing journal, Vol. 36, November 2015, pp. 519-533, 2015
19. **Czibula, I.G.**, Czibula, G., Marian, Zs., *A Novel Approach Using Fuzzy Self-Organizing Maps for Detecting Software Faults*, Studies in Informatics and Control, ISSN 1220-1766, vol. 25 (2), pp.207-216, 2016

Articole în publicații din ISI Conference Proceedings Citation Index: 20

1. **Czibula, I.G.**, Şerban, G., *A Programming Interface for Determining Refactorings of Object-Oriented Software Systems using Clustering*, ICCP 2007: Proceedings of the IEEE 3rd International Conference on Intelligent Computer Communication and Processing, September, 6-8, 2007, Cluj-Napoca, Romania, pp. 271-274
2. Şerban, G., **Czibula, I.G.**, *Restructuring Software Systems Using Clustering*, ISCIS 2007, Proceedings of The 22th International Symposium on Computer and Information Sciences, IEEEExplore, November 7-9, Ankara, Turkey, 2007, pp. 262-267
3. Şerban, G., **Czibula, I.G.**, *Object-Oriented Software Systems Restructuring through Clustering*, ICAISC'08, The Eighth International Conference on Artificial Intelligence and Soft Computing, LNAI 5097, pp. 693-704
4. **Czibula, I.G.**, Şerban, G., *Identifying Design Patterns in Object-Oriented Software Systems Using Unsupervised Learning*, 2008 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, AQTR 2008, pp. 347-352
5. Czibula, G., Guran, A., Cojocar, G.S, **Czibula, I.G.**, *Multiagent Decision Support Systems based on Supervised Learning*, 2008 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, AQTR 2008, pp. 353-358
6. **Czibula, I.G.**, Czibula, G., *Refactorings Detection Using Hierarchical Clustering*, European Computing Conference, ECC'08, Malta, 2008, pp. 332-337

7. **Czibula, I.G.**, Czibula, G., *Clustering based automatic refactorings identification*, SYNASC 2008, The 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timișoara, 2008, pp. 253-256
8. Lazăr, I., Pârv, B., Motogna S., **Czibula, I.G.**, Lazăr, L., *iCOMPONENT: A Platform-Independent Component Model for Dynamic Execution Environments*, SYNASC 2008, The 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timișoara, 2008, pp. 257-264
9. Czibula, G., **Czibula, I.G.**, Cojocar, G.S, Guran, A., *IMASC - An Intelligent MultiAgent System for Clinical Decision Support*, Proceedings of the International Conference on Complexity and Intelligence of the Artificial and Natural Complex Systems - Medical Applications of the Complex Systems Biomedical Computing CANS' 2008, IEEE Society Press, Targu Mures, 2008, pp. 183-188
10. Lazar, I., Parv, B., Motogna, S., **Czibula, I.G.**, Lazar, C.L., *An Agile MDA Approach for the Development of Service-Oriented Component-Based Applications* Proceedings of the International Conference on Complexity and Intelligence of the Artificial and Natural Complex Systems - Medical Applications of the Complex Systems Biomedical Computing CANS' 2008, IEEE Society Press, Targu Mures, 2008, pp. 38-44
11. Czibula, G., Cojocar, G.S, **Czibula, I.G.**, *A partitional clustering algorithm for crosscutting concerns identification*, Proceedings of the International Conference on SOFTWARE ENGINEERING, PARALLEL and DISTRIBUTED SYSTEMS (SEPADS '09), Cambridge, UK, 2009, pp. 111-116
12. S. Motogna, I. Lazar, B. Parv, **I. G. Czibula**. *An Agile MDA Approach for Service Oriented Components*, Proceedings 6th International Workshop on Formal Engineering Approaches to Software Components and Architectures, FESCA-ETAPS'2009, in Electronic Notes in Theoretical Computer Science 2009, vol. 253, Elsevier, pp. 95-110
13. I. Lazar, **I. G. Czibula**, S. Motogna, B. Parv, L. Lazar, *Rapid prototyping of service-oriented applications on OSGi platform*, Proceedings of BCI'09, pp. 217-222, Greece
14. Czibula, G., Guran, A., **Czibula, I.G.**, Cojocar, G.S., *IPA - An Intelligent Personal Assistant Agent For Task Performance Support*, ICCP 2009: Proceedings of the IEEE 5th International Conference on Intelligent Computer Communication and Processing, 2009, Cluj-Napoca, Romania, pp. 31-34
15. **Czibula, I.G.**, Czibula, G., Guran, A., *Dynamic customization of data structures instances using an agent based approach*, SYNASC 2009, The 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timișoara, 2009, IEEE Society Press, pp. 341-347
16. Parv, B., Lazar, I., Motogna, S., **Czibula, I. G.**, Lazar, L., *ComDeValCo Framework – Procedural and Modular Issues*, KEPT 2009, Knowledge Engineering: Principles and Techniques, International Conference, Babes-Bolyai University, 2009, pp. 213-222
17. **Czibula, I.G.**, *Clustering Based Reengineering of Procedural Systems to Object-Oriented Architectures*, Post-proceedings of KEPT 2009, pp. 205-212
18. Lazar, L., Lazar, I., Parv, B., Motogna, S., **Czibula, I. G.**, *Using a fUML Action Language to construct UML models*, SYNASC 2009, The 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timișoara, 2009, IEEE Society Press, ISBN 978-0-7695-3694-5, pp. 93-101
19. Czibula, G., **Czibula, I.G.**, *Adaptive Refactoring Using a Core-Based Clustering Approach*, Proceedings of the 9th International Conference on Software

- Engineering, Parallel and Distributed Systems (SEPADS '10), Cambridge, UK, 2010, pp. 133-138
20. Bocicor, M. I., **Czibula, G.**, Czibula, I.G., *A Reinforcement Learning Approach for Solving the Fragment Assembly Problem*, Proceedings of the 13th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2011, IEEE Computer Society, pp. 191-198, 2011

Ib Articole publicate în volume ale conferințelor internaționale indexate BDI: 8

1. Șerban, G., **Czibula, I.G.**, *A New Clustering Approach for Systems Designs Improvement*, 2007 International Conference on Software Engineering Theory and Practice, SETP-07, Orlando, USA, July 9-12, 2007, pp. 47-54
2. **Czibula, I.G.**, Șerban, G., *A Hierarchical Clustering Algorithm for Software Design Improvement*, KEPT 2007, Knowledge Engineering: Principles and Techniques, Babes-Bolyai University, June 6-8, 2007, Cluj-Napoca, pp. 316-323
3. **Czibula, I.G.**, Șerban, G., *Software Systems Design Improvement Using Hierarchical Clustering*, SERP'07- The 2007 International Conference on Software Engineering Research and Practice, June 25-28, Las Vegas, USA, 2007, pp. 229-235
4. Șerban, G., **Czibula, I.G.**, Câmpan, A., *Medical Diagnosis Prediction using Relational Association Rules*, International Conference on Theory and Applications of Mathematics and Informatics (ICTAMI'07), Alba-Iulia, 2008, pp. 339-352
5. Czibula, G., **Czibula, I.G.**, Cojocar, G.S., Guran, A., *Decision support system for software maintenance and evolution*, KEPT 2009, Knowledge Engineering: Principles and Techniques, International Conference, in Studia Informatica suppl issue, Babes-Bolyai University, 2009, pp. 181-184
6. **Czibula, I.G.**, *A clustering approach for transforming procedural into object-oriented software systems*, KEPT 2009, Knowledge Engineering: Principles and Techniques, International Conference, in Studia Informatica suppl issue, Babes-Bolyai University, 2009, pp. 185-188
7. **Czibula, I.G.**, Czibula, G., *Hierarchical Clustering for Adaptive Refactorings Identification*, 2010 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, AQTR 2010, pp. 99-104
8. Czibula, G., Bocicor, M.I., **Czibula, I.G.**, *A Distributed Reinforcement Learning Approach for Solving Optimization Problems*, in *Recent Researches in Communications and IT*, Proceedings of the 5th International Conference on Communications and Information Technology (CIT '11), Greece, 2011, pp. 25-30

Ic Articole publicate în reviste internaționale indexate BDI: 27

1. Șerban, G., **Czibula, I.G.**, Câmpan, A., *A Programming Interface For Medical Diagnosis Prediction*, Studia Universitatis "Babes-Bolyai", Informatica, LI(1), 2006, pp. 21-30

2. **Czibula, I.G.**, Șerban, G., *An Analysis of Distance Metrics for Clustering based Improvement of Systems Design*, Studia Universitatis "Babes-Bolyai", Informatica, LII(1), 2007, pp. 45-54
3. Șerban, G., **Czibula, I.G.**, *On Evaluating Software Systems Design*, Studia Universitatis "Babes-Bolyai", Informatica, LII(1), 2007, pp. 55-66
4. **Czibula, I.G.**, Șerban, G., *A Study on clustering based restructuring of Software systems*, Studia Universitatis "Babes-Bolyai", Informatica, LII(2), 2007, pp. 93-100
5. Lazăr, I., Pârv, B., Motogna S., **Czibula, I.G.**, Lazăr, L., *An Agile MDA Approach for Executable UML Structured Activities*, Studia Universitatis "Babes-Bolyai", Informatica, LII(2), 2007, pp. 101-114
6. Pârv, B., Motogna S., Lazăr, I., **Czibula, I.G.**, Lazăr, L., *ComDeValCo - A Framework for Software Component Definition, Validation, and Composition*, Studia Universitatis "Babes-Bolyai", Informatica, LII(2), 2007, pp. 59-68
7. **Czibula, I.G.**, Șerban, G., *Hierarchical Clustering for Software Systems Restructuring*, INFOCOMP Journal of Computer Science, Brazilia, Volume 6 - n. 4, December 2007, pp. 43-51
8. **Czibula, I.G.**, Czibula (Serban), G., *Hierarchical Clustering based Automatic Refactorings Detection*, WSEAS Transactions on Electronics, Issue 7, Vol.5, July 2008, pp. 291-302
9. Șerban, G., **Czibula, I.G.**, *A Search Based Approach for Identifying Design Patterns*, Studia Universitatis "Babes-Bolyai", Informatica, LIII(1), 2008, pp. 3-16
10. Motogna S., Pârv, B., Lazăr, I., **Czibula, I.G.**, Lazăr, L., *Extending OCL-based Action Language for Executable UML Components*, Studia Universitatis "Babes-Bolyai", Informatica, LIII(2), 2008, pp. 15-26
11. **Czibula, I.G.**, Czibula, G., *A partitional clustering algorithm for improving the structure of object-oriented software systems*, Studia Universitatis "Babes-Bolyai", Informatica, LIII(2), 2008, pp. 105-114
12. Șerban, G., **Czibula, I.G.**, *Object-Oriented Software Systems Restructuring using Clustering*, Analele Universitatii de Vest Timisoara, Analele Universitatii de Vest Timisoara, Seria Matematică și Informatică , Vol. XLVI, No. 2, 2008, pp. 161-173
13. Motogna S., Lazăr, I., Pârv, B., **Czibula, I.G.**, Lazăr, L., *Component Classification Criteria for a Platform-Independent Component Repository*, International Conference on Applied Mathematics, in Creative Mathematics and Informatics, Vol. 17 (2008) no. 3, pp. 481-486
14. Cojocar, G.S., Czibula, G., **Czibula, I.G.**, *A Comparative Analysis of Clustering Algorithms in Aspect Mining*, Studia Universitatis "Babes-Bolyai", Informatica, LIV(1), 2009, pp. 75-84
15. **Czibula, I.G.**, Czibula, G., *On converting software systems to object oriented architectures*, BRAIN Journal, Special Issue on Complexity in Sciences and Artificial Intelligence, Vol. 1, 2010, pp. 12-17
16. **Czibula, I.G.**, Czibula, G., *Unsupervised transformation of procedural programs to object-oriented design*, Acta Universitatis Apulensis, Special Issue on Understanding Complex Systems, 2012, pp. 15-27
17. Czibula, G., Cojocar, G.S., **Czibula, I.G.**, *Identifying Crosscutting Concerns Using Partitional Clustering*, Wseas Transactions on Computers, Issue 2, Volume 8, 2009, pp. 386-395

18. **Czibula, I.G.**, Czibula, G., Cojocar, G.S., *Hierarchical Clustering for Identifying Crosscutting Concerns in Object Oriented Software Systems*, INFOCOMP Journal of Computer Science, Volume 8, Number 3, Brazilia, 2009, pp. 21-28.
19. Czibula, G., **Czibula, I.G.**, *Clustering Based Adaptive Refactoring*, Wseas Transactions on Information Science and Applications, Issue 3, Volume 7, 2010, pp. 391-400
20. **Czibula, I.G.**, Czibula, G., *Adaptive restructuring of object-oriented software systems*, Studia Universitatis "Babes-Bolyai", Informatica, LV(2), 2010, pp. 1-12
21. Czibula, G., **Czibula, I.G.**, Pinte M.C, *A Reinforcement Learning Approach for Solving the Matrix Bandwidth Minimization Problem*, Studia Universitatis "Babes-Bolyai", Informatica, LV(4), 2010, pp. 9-17
22. Czibula G., Bocicor, M.I., **Czibula, I.G.**, *A Reinforcement Learning Model for Solving the Folding Problem*, IJCTA - International Journal of Computer Technology and Applications, Vol. 2, Issue 1, 2011, pp. 171-182
23. Czibula, G., Bocicor, M.I., **Czibula, I.G.**, *An Experiment on Protein Structure Prediction using Reinforcement Learning*, Studia Babes-Bolyai Informatica, LVI (1), 2011, pp. 25-34
24. **Czibula, I. G.**, Czibula, G., Bocicor, M.I., *A Software Framework for Solving Combinatorial Optimization Tasks*, Studia Universitatis "Babes-Bolyai", Informatica, Proc. of KEPT 2011, Special Issue, LVI(3), pp. 3-8, 2011
25. Czibula, G., **Czibula, I.G.**, Bocicor, M.I., *A Comparison of Reinforcement Learning Based Models for the DNA Fragment Assembly Problem*, Studia Universitatis "Babes-Bolyai", Informatica, Proc. of KEPT 2013, LVIII(2), pp. 90-102, 2013
26. Marian Zs., Czibula G., **Czibula I.G.**, *FAOS – A framework for analysing object oriented software systems*, Studia Universitatis "Babes-Bolyai", Informatica, LIX(2), pp.66-81, 2014
27. Zsuzsanna Marian, **Istvan Gergely Czibula**, Gabriela Czibula and Sergiu Sotoc, *Software Defect Detection using Self-Organizing Maps*, Studia Universitatis "Babes-Bolyai", LX(2), 2015, pp. 55-69

Id Articole publicate în reviste internaționale neindexate BDI: 4

1. **Czibula, I.G.**, Șerban, G., *Improving Systems Design Using a Clustering Approach*, IJCSNS International Journal of Computer Science and Network Security, VOL.6 No.12, December 2006, pp. 40-49
2. Czibula, G., **Czibula, I.G.**, Cojocar, G.S., Guran, A., *Assisting Software Maintenance and Evolution Using an Agent Based Approach*, Post-proceedings of KEPT 2009, pp. 197-204
3. **Czibula, I. G.**, Czibula, G., Bocicor, M.I., *A Reinforcement Learning Based Framework for Solving Optimization Problems*, Post proceedings of KEPT 2011, Presa Universitară Clujeană, 2011, pp. 235-246
4. Czibula, G., Bocicor, M.I., **Czibula, I.G.**, *Solving the Protein Folding Problem Using a Distributed Q-Learning Approach*, International Journal of Computers, Volume 5, Issue 3, 2011, pp. 404-413

**Ie Articole publicate în volume ale conferințelor internaționale
neindexate BDI: 1**

1. **Czibula, I.G.,** Șerban, G., *A new Clustering Algorithm for Refactorings Determination*, BCI'07, Proceedings of the 3rd Balkan Conference in Informatics, 27-29 September 2007, Sofia, Bulgaria, pp. 131-142

**If Articole publicate în volume ale conferințelor naționale
neindexate: 1**

1. **Czibula, I.G.,** *ComDeValCo - Activity Modeling and Execution* Proceedings of the Symposium “Colocviul Academic Clujean de Informatica”, *Directii noi de cercetare in Informatica*, 2008, pp. 61-68

II Cărți publicate în edituri naționale: 1

1. **Czibula, I., G.,** *Use of search techniques to software development*, Editura Risoprint, ISBN 978-973-53-0119-4, 2009 (248 pagini) – în limba engleză