

LISTA DE LUCRĂRI

Prof. Univ. Dr. Dana SIMIAN

1⁰ Teza de doctorat

T1. *Contribuții la interpolarea funcțiilor de mai multe variabile*, (160 pag.) susținută la Universitatea „Babeș - Bolyai” Cluj - Napoca, în 21.12.2001, conducător științific prof. univ. dr. Alexandru Lupaș.

2⁰ Cărți publicate (Ca – monografiile, Cb – alte cărți de specialitate, Cc – cursuri), îndrumare publicate (I1, I2, etc), capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc. (D1, D2 etc.)

- Cb1.** Dana Simian, *Proiectarea algoritmilor: principii si tehnici*, Editura Universitatii "Lucian Blaga" din Sibiu, ISBN 978-606-12-1195-1-606-12-1360-3, 262pg., 2016.
- Cb2.** Dana Simian, Maria-Claudia Bercea-Engels, *Tendințe noi în metodică predării informaticii la nivel liceal: metoda diagonalei*, Editura Universitatii "Lucian Blaga" din Sibiu, ISBN 978-606-12-1195-1, 215pg., 2015.
- Cb3.** Dana Simian, Cristina Cismas, Corina Simian, *Introducere în geometria computațională*, Editura Universitatii "Lucian Blaga" din Sibiu, ISBN 978-606-12-0889-0, 212 pg., 2014.
- Cb4.** Dana Simian, Corina Simian, *Moduri de abordare a problemei de interpolare polinomială a funcțiilor de mai multe variabile*, Ed. Univ. Lucian Blaga din Sibiu, ISBN 978-973-739-483-4, 205 pg., 2007.
- Cb5.** Dana Simian, *Metode de interpolare a funcțiilor de mai multe variabile*, Ed. Universității București, ISBN 973-575-896-2, 189 pg., 2004.
- Cb6.** Dana Simian, Adrian Branga, *Transformata Radon și aplicații*, Ed. Universității Transilvania Brașov, ISBN 973-635-338-9, 115 pg., 2004.
- Cc1.** Dana Simian, *Machine Learning. An introductory Course*, online course
- Cc2.** Dana Simian, *Metodologia cercetării*, curs online
- Cc3.** Dana Simian, *Algoritmi fundamentali și tehnici de programare*, Ed. Universității Sibiu, ISBN 973-651-772-1, 234 pg., 2004.
- Cc4.** Dana Simian, *Birotică*, Ed. Alma Mater Sibiu, ISBN 973-8371-82-1, 182 pg., 2002.
- Cc5.** Dana Simian, *Structuri de date*, Ed. Alma Mater Sibiu, ISBN 973-8371-63-5, 152 pg., 2002.
- Cc6.** Dana Simian, *Birotica*, Ed. Mira, Sibiu, ISBN 973-8232-04-X, 139 pg., 2001.
- Ci1.** Dana Simian, *ACCESS. îndrumar teoretic și practic*, Ed. Universității Sibiu, ISBN 973-651-836-1, 52pg., 2004.
- Ci2.** Dana Simian, *Birotică. Lucrări de laborator și teste de autoevaluare*, Ed. Alma Mater Sibiu, ISBN 973-8371-86-4, 135 pg., 2002.

Capitole în volume colective

D1 Th. Borangiu, D. Cârstoiu, A. Condruș, M. Danubianu, C. Darie, A. Mitea, S. Moraru, A. Olteanu, L. Perniu, C. Pupăză, Dana Simian - *DB2 UDB, Fundamente și administrare*, Ed. Agir, ISBN 973-720-088-8, 978-973-720-088-4, Capitolul 8, *Programare SQL cu proceduri stocate și funcții*, pp. 206-253, 2006.

D2 Th. Borangiu, D. Cârstoiu, A. Condruș, M. Danubianu, C. Darie, A. Mitea, S. Moraru, A. Olteanu, L. Perniu, C. Pupăză, Dana Simian - *DB2 UDB Exerciții*, Ed. Agir, ISBN 973-720-

089-6, 978-973-720-089-1, Capitolul 11, *Programare cu proceduri stocate și funcții*, pp. 166-196, 2006.

Colecții de carte indexate WOS/SCOPUS - editate în calitate de prim editor (care includ și contribuții științifice ale editorilor).

D3 Dana Simian, Laura Stoica (Editors), Communications in Computer and Information Science (CCIS), Book series, volume 1761, 2023 – Modelling and Development of Intelligent Systems, 8th International Conference, MDIS 2022, Sibiu, Romania, October 28–30, 2022, Revised Selected Papers, Springer, 2023

D4 Dana Simian, Laura Stoica (Editors), Communications in Computer and Information Science (CCIS), Book series, volume 1341, 2021, Modelling and Development of Intelligent Systems, 7th International Conference, MDIS 2020, Sibiu, Romania, October 22–24, 2020, Revised Selected Papers, Springer, 2021

D5 Dana Simian, Laura Stoica (Editors), Communications in Computer and Information Science (CCIS), Book series, volume 1126, 2020 - Modelling and Development of Intelligent Systems, 6th International Conference, MDIS 2019, Sibiu, Romania, October 3–5, 2019, Revised Selected Papers, Springer, 2020.

Cărți (inclusiv Proceedinguri) – editate în calitate de prim editor (care includ și contribuții științifice ale editorilor)

D6 Dana Simian, Laura Stoica (editori)- *Imagination, Creativity, Design, Development*, Proceedings of the International Conference on Applied Informatics, ICDD 2022, Sibiu, 5-7 Mai, ISSN 2069 – 864X, pag. 150.

D7 Dana Simian, Laura Stoica (editori)- *Imagination, Creativity, Design, Development*, Proceedings of the International Conference on Applied Informatics, ICDD 2021, Sibiu, 4-6 Nov., ISSN 2069 – 864X, pag. 159.

D8 Dana Simian, Laura Stoica (editori)- *Imagination, Creativity, Design, Development*, Proceedings of the International Conference on Applied Informatics, ICDD 2020, Sibiu, 8-10 Oct, ISSN 2069 – 864X, pag. 299.

D9 Dana Simian, Laura Stoica (editori)- *Imagination, Creativity, Design, Development*, Proceedings of the International Conference on Applied Informatics, ICDD 2019, Sibiu, 16-18 Mai, ISSN 2069-964X, pag. 250.

D10 Dana Simian, Laura Stoica (editori)- *Imagination, Creativity, Design, Development*, Proceedings of the International Conference on Applied Informatics, ICDD 2018, Sibiu, 21-23 Mai, ISSN 2069-964X, 255 pag.

D11 Dana Simian, Laura Stoica (editori)- *Imagination, Creativity, Design, Development*, Proceedings of the International Conference on Applied Informatics, ICDD 2017, Sibiu, 25-27 Mai, ISSN 2069-964X, 168 pag.

D12 Dana Simian (editor)- *Imagination, Creativity, Design, Development*, Proceedings of the International Conference on Applied Informatics, ICDD 2016, Sibiu, 21-23 Mai, ISSN 2069-964X, 212 pag.

D13 Dana Simian (editor) – *Modelling and development of Intelligent Systems*, (Proceedings of the Fifth International Conference “Modelling and Development of Intelligent Systems”, Sibiu, Romania, 2017), Editura Univ. Lucian Blaga Sibiu, 2018, ISSN: 2067-3965, 91 pag.

D14 Dana Simian (editor) – *Modelling and development of Intelligent Systems*, (Proceedings of the Fourth International Conference “Modelling and Development of Intelligent Systems”, Sibiu, Romania, 2015), Editura Univ. Lucian Blaga Sibiu, 2016, ISSN: 2067-3965, 150 pag.

D15 Dana Simian (editor) – *Modelling and development of Intelligent Systems*, (Proceedings of the Third International Conference “Modelling and Development of Intelligent Systems”,

Sibiu, Romania, 2013), Editura Univ. Lucian Blaga Sibiu, 2014, ISSN: 2067-3965, ISBN: 978-606-12-0243-0, 176 pag.

D16 Dana Simian (editor) – *Modelling and development of Intelligent Systems*, (Proceedings of the Second International Conference “Modelling and Development of Intelligent Systems”, Sibiu, Romania, 2011), Editura Univ. Lucian Blaga Sibiu, 2009, ISSN: 2067-3965, ISBN: 978-606-12-0243-0, 242 pag.

D17 Dana Simian (editor) – *Modelling and development of Intelligent Systems*, (Proceedings of the First International Conference “Modelling and Development of Intelligent Systems”, Sibiu, Romania, 2009) Editura Univ. Lucian Blaga Sibiu, 2009, ISSN 2067-3965, 324 pag.

D18 Dana Simian (editor) – *New Trends in Approximation, Optimization and Classification*, Editura Univ. Lucian Blaga Sibiu, 2008, ISBN 978-973-739-678-5, 150 pg., 2008.

D19 Dana Simian, Florin Sofonea, (editors) - *New approaches, Algorithms and Advanced Computational Techniques in Approximation Theory and its Applications*, Ed. Univ. Lucian Blaga, Sibiu, 2007, ISBN 978-973-739-949-2, 155 pg., 2007.

D20 Dana Simian (editor) – Proceedings of the 6th International Students Conference on Informatics, ICDD 2016, Editura Univ. Lucian Blaga Sibiu, 2018, ISSN 2069-964X.

D21 Dana Simian (editor) – Proceedings of the 5th International Students Conference on Informatics, ICDD 2016, Editura Univ. Lucian Blaga Sibiu, 2018, ISSN 2069-964X.

D22 Dana Simian (editor) – Proceedings of the 4th International Students Conference on Informatics, ICDD 2016, Editura Univ. Lucian Blaga Sibiu, 2018, ISSN 2069-964X.

D23 Dana Simian (editor) – Proceedings of the 3th International Students Conference on Informatics, ICDD 2016, Editura Univ. Lucian Blaga Sibiu, 2018, ISSN 2069-964X.

D24 Dana Simian (editor) – Proceedings of the 2nd International Students Conference on Informatics, ICDD 2016, Editura Univ. Lucian Blaga Sibiu, 2018, ISSN 2069-964X.

D25 Dana Simian (editor) – Proceedings of the 1st International Students Conference on Informatics, ICDD 2016, Editura Univ. Lucian Blaga Sibiu, 2018, ISSN 2069-964X.

Editor asociat al unor proceedinguri de conferințe internaționale - 2

1. Proceedings of the 8th International Conference On Mathematical Methods And Computational Techniques In Electrical Engineering (MMACTEE '06), ISSN 1790-5117, ISBN 960-8457-54-8.

2. Latest Trends on Computers, Proceedings of International Multiconference, Conference on Computers, Corfu Island, Grecia, 22-25 iulie, 2009 (22-25 Iulie 2010), vol. 1, vol. 2 – ISSN 179-4251, ISBN 978-960-474-213-4

Membriu in comitetul editorial al unor volume publicate în străinătate (proceedinguri, indexate ISI ale unor conferințe internaționale) – 29

(<http://www.worldses.org/books/index.html>)

Editor al unor volume pe CD si suport electronic (cu ISSN)

1. **Dana Simian** (editor)- *Imaginație, Creativitate. Design, Dezvoltare*, Lucrările Sesiunii Naționale de Comunicări Științifice Studentești, Sibiu, 10 – 11 Aprilie, 2009, ISSN 2065 – 927X, 94 pag.

2. **Dana Simian** (editor)- *Imaginație, Creativitate. Design, Dezvoltare*, Lucrările Sesiunii Naționale de Comunicări Științifice Studentești, Sibiu, 23 – 24 Aprilie, 2010, ISSN 2065 – 927X, 190 pag.

3. **Dana Simian** (editor)- *Imagination, Creativity, Design, Development*, Proceedings of the First Students Conference on Informatics, ICDD 2011, Sibiu, 7-9 Aprilie, 2011, ISSN 2069 – 964X, 336 pag.

4. Dana Simian (editor)- *Imagination, Creativity, Design, Development*, Proceedings of the Second International Students Conference on Informatics, ICDD 2012, Sibiu, 26-28 Aprilie, 2012, ISSN 2069 – 864X, 94 pag.

5. Dana Simian (editor)- *Imagination, Creativity, Design, Development*, Proceedings of the 3th International Students Conference on Informatics, ICDD 2013, Sibiu, 16-18Mai, ISSN 2069-964X, 94 pag.

6. Dana Simian (editor)- *Imagination, Creativity, Design, Development*, Proceedings of the 4th International Students Conference on Informatics, ICDD 2014, 15-17Mai, Sibiu, ISSN 2069-964X, 269 pag.

7. Dana Simian (editor)- *Imagination, Creativity, Design, Development*, Proceedings of the 5th International Students Conference on Informatics, ICDD 2015, Sibiu, 21-23 Mai, ISSN 2069-964X, 216 pag.

8. Dana Simian (editor)- *Imagination, Creativity, Design, Development*, Proceedings of the International Conference on Applied Informatics, ICDD 2022, Sibiu, 5-7 Mai, ISSN 2069 – 864X, pag. 150.

3⁰ Articole / studii publicate: a) în reviste de specialitate de circulație internațională recunoscute cotate ISI sau indexate în baze de date internaționale specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță (Ris); b) în alte reviste de specialitate de circulație internațională (Rio); c) în reviste din țară recunoscute C.N.C.S.I.S. (Rns); d) în reviste de specialitate cu circulație națională (Rno).

ISI Thomson – Science Citation Index Expanded (Web of Science)

(aceste articole sunt indexate și în alte baze de date internaționale: Scopus, Zentralblatt, IEEE, Engineering Village, ACM)

Ris1 Dana Simian, Oana Adriana Ticleanu, Nicolae Constantinescu, *Characterization of a cubic interpolation scheme dependent on two parameters and applications*, Annals of the University of Craiova, Vol 49, No 2, pp. 445-460, 2022.

Ris2 G. Cerasela Crișan, Elena Nechita, Dana Simian, *On Randomness and Structure in Euclidean TSP Instances: A Study With Heuristic Methods*, in *IEEE Access*, vol. 9, pp. 5312-5331, 2021, doi: 10.1109/ACCESS.2020.3048774.

Ris3 Soraya Sedkaoui, Dana Simian, *Developed Framework Based on Cognitive Computing to Support Personal Data Protection Under the GDPR*, Communications in Computer and Information Science, vol. 1126, Modelling and Development of Inteligent Systems, pp.111-130, 2020.

Ris4 Dana Simian, Florin Stoica, Alina Bărbulescu, M Tuba, *Automatic optimized support vector regression for financial data prediction*, Neural Computing and Applications, ISSN 0941-0643, DOI 10.1007/s00521-019-04216-7, published online 06 May, 2019.

Ris5 E Tuba, D Dolicanin-Djekic, R Jovanovic, D Simian, M Tuba, *Combined Elephant Herding Optimization Algorithm with K-means for Data Clustering*, Editors: Satapathy, Suresh Chandra, Joshi, Amit (Eds.)Springer, ” Information and Communication Technology for Intelligent Systems”, vol. 107, 2017, pp. 665–673, 2018.

Ris6 Eva Tuba, Milan Tuba, Dana Simian, Raka Jovanovic, *JPEG Quantization Table Optimization by Guided Fireworks Algorithm*, Combinatorial Image Analysis, LNCSMathematics and Computer Science Series, Vol 49, No 2 (2022), volume 10256, 2017 Online ISBN 978-3-319-59108-7, Print ISBN 978-3-319-59107-0, 2017, https://link.springer.com/chapter/10.1007/978-3-319-59108-7_23

Ris7 Dana Simian, Florentin Bota, *Adaptive Multi-agent System Based on Wasp-Like Behaviour for the Virtual Learning Game Sotirios*, Large-Scale Scientific Computing, Editors Ivan Lirkov, Svetozar Margenov, Lecture Notes in Computer Science book series (LNCS, volume

10665), Springer, pp. 416-424, ISBN 978-3-319-73440-8 ISBN 978-3-319-73441-5 (eBook), 2017, <https://doi.org/10.1007/978-3-319-73441-5>

Ris8 Dana Simian, Florin Stoica , *A general frame for building optimal multiple SVM kernels*, Lecture Notes in Computer Science, Vol. Large Scale Scientific Computation, LNCS 7116, Lirkov, Ivan; Margenov, Svetozar; Wasniewski, Jerzy (Eds.) ISSN 0302 – 9743, ISBN 978-3-642-29842-4, pp. 256-263, 2012.

Ris9 Dana Simian, Florin Stoica, Corina Simian, *Optimization of Complex SVM Kernels Using a Hybrid Algorithm Based on Wasp Behaviour*, Lecture Notes in Computer Science, LNCS 5910, ISSN 0302 – 9743, pp. 361–368, I. Lirkov, S. Margenov, and J. Wasniewski (Eds.), Springer-Verlag Berlin Heidelberg, 2010.

Ris10 Dana Simian, Corina Simian, *On some approaches for obtaining multivariate interpolation spaces*, Resultate der Mathematik -Results in Mathematics, vol. 53, pp.417-425, ISSN 0378-6218, Birkhäuser Verlag Basel Boston, (ISI, CISTI, NCSU Library, Zentralblatt), 2009

Ris11 Dana Simian, *Properties of Generalized Polynomial Spaces in Three Variables*, LNCS 5434, Springer Verlag Berlin Heidelberg, ISSN 0302 – 9743, (ISI, DBLP Bibliography Server, ACM, Zentralblatt, British Library Direct, Computer Science Bibliographies, SpringerLink), pp. 509-516, 2009.

Ris12 Dana Simian, Corina Simian, *Applications of the connection between approximation theory and algebra*, LNCS 5434, Springer Verlag Berlin Heidelberg, ISSN 0302 – 9743, (ISI, DBLP Bibliography Server, ACM, Zentralblatt, British Library Direct, Computer Science Bibliographies, SpringerLink), pp. 525-531, 2009.

Ris13 Dana Simian, Vladislav Georgiev, Corina Simian, *A Discrete Model For A Network Having Broken Package*, LNCS 5434, Springer Verlag Berlin Heidelberg, ISSN 0302 – 9743, (ISI, DBLP Bibliography Server, ACM, Zentralblatt, British Library Direct, Computer Science Bibliographies, SpringerLink), pp. 517-524, 2009.

Ris14 Ioana Moasil, Iulian Pah, Dana Simian, *Advanced Modelling of Tutor Intelligent Systems for Distance Learning Applications*, International Journal of Computers, Communications & Control, With Emphasis on the Integration of Three Technologies, UCCC, A Quarterly Journal, Year: 2008 Volume: III, Suppl. issue: Proceedings of ICCCC 2008, Agora University Editing House, ISSN 1841-9836, (ISI, Zentralblatt), pp. 413-416, 2008.

Ris15 Dana Simian, Corina Simian, Ioana Moasil, Iulian Pah, *Computer mediated communication and collaboration in a virtual learning environment based on a multi-agent system with wasp-like behavior*, Lecture Notes in Computer Science, LNCS 4818, Springer Berlin Heidelberg, ISSN 0302 – 9743 (ISI, Zentralblatt, British Library Direct, Computer Science Bibliographies, SpringerLink), pp. 606-614, 2008.

Ris16 Ioana Moasil, Iulian Pah, Dana Simian, Corina Simian, *Ant Colony Models for a Virtual Educational Environment based on a Multi-Agent System*, Lecture Notes in Computer Science, LNCS 4818, Springer Berlin Heidelberg, ISSN 0302 – 9743, (ISI, Zentralblatt, British Library Direct, Computer Science Bibliographies, SpringerLink), pp.565-573, 2008.

Ris17 Dana Simian, Corina Simian, *Quadrature Formula Based on Interpolating Polynomials: Algorithmic and Computational Aspects*, Lecture Notes in Computer Science, LNCS 4310, Springer Berlin Heidelberg, ISSN 0302 – 9743, (ISI, DBLP Bibliography Server, Zentralblatt, British Library Direct, Computer Science Bibliographies, SCOPUS, INSPEC, Engineering Village- Compendex, SpringerLink, SCEAS), pp. 419-426, 2006.

Ris18 Dana Simian, Corina Simian, Andrei Moiceanu, *Computational Aspects in Spaces of Bivariate Polynomial of w -degree n* , Lectures Notes in Computer Science, LNCS 3401, Springer Berlin Heidelberg New York, ISSN 0302-9743, ISBN 3-540-24937-0, 9743 (ISI, DBLP Bibliography Server, Zentralblatt, British Library Direct, Computer Science Bibliographies, SCOPUS, INSPEC, Engineering Village- Compendex, SpringerLink, SCEAS), pag. 486-494, 2005.

Ris19 Dana Simian, *The λ - Error Order in Multivariate Interpolation*. Lectures Notes in Computer Science, LNCS 3401, Springer Berlin Heidelberg New York, ISSN 0302-9743, ISBN

3-540-24937-0, (ISI, DBLP Bibliography Server, Zentralblatt, British Library Direct, Computer Science Bibliographies, SCOPUS, INSPEC, Engineering Village- Compendex, SpringerLink, SCEAS), pp. 478-486, 2005.

SCOPUS citation, Zentralblatt, CISTI, AMS, ACM, RePec și alte baze de date internaționale

Ris20 Marin-Eusebiu Serban, **Dana Simian**, *A comprehensive Architecture Application for unlocking the potential of student feedback*, Bulletin of the Transilvania University of Brasov Series III: Mathematics and Computer Science, Vol. 2(66), No. 2 - 2023, in production.

Ris21 **Dana Simian**, Felix Husac, *Challenges and Opportunities in Deep Learning Driven Fashion Design and Textiles Patterns Development*. Communications in Computer and Information Science, vol 1761, Modelling and Development of Intelligent Systems, pp. 173-187, Springer, Cham, 2023.

Ris22 **Dana Simian**, Adrian Vulpeanu, *Using Python in developing video games*, Bulletin of the Transilvania University of Brasov Series III: Mathematics and Computer Science, Vol. 2(64), No. 2 - 2022, pp. 203-214, 2022.

Ris23 **Dana Simian**, Ralf Fabian, Mihai Stancu, *Automatic watermark identification based on machine learning techniques*, Communications in Computer and Information Science, vol 1341, Modelling and Development of Intelligent Systems, pp.264-284, Springer, Cham, 2021.

Ris24 Florentin Bota, **Dana Simian**, *Embedding Human Behavior using Multidimensional Economic Agents*, Communications in Computer and Information Science, vol 1341, Modelling and Development of Intelligent Systems, Springer, Cham, pp.3-19, 2021

Ris25 R. Jovanovic, M. Tuba, **Dana Simian**, *Comparison of different topologies for islandbased multi-colony ant algorithms for the minimum weight vertex cover problem*, WSEAS Transactions on Computers 9 (1) (2010) 83–92.

Ris26 **Dana Simian**, Corina Simian, *Bézier Techniques Applied In A Complex Virtual Testing System Design*, Academic Journal of Manufacturing Engineering, Vol. 8, Issue 2/2010, ISSN 1583-7904, (CNCSIS cat. B +, Copernicus Data Basis), pp. 75-81, 2010

Ris27 Petrica Strbac, Milan Tuba, **Dana Simian**, *Hierarchical model of a systolic array for solving differential equations implemented as an upgraded Petri net*, WSEAS Transactions on Systems, Vol. 8, Issue 1, ISSN 1109-2777, (ACM, WorldCat, Zentralblatt, SCOPUS, Information Systems Journals, British Library, The Collection of Computer Science Bibliographies, MathSciNet). pp 12-21, 2009.

Ris28 R. Jovanovic, M. Tuba, **D. Simian**, *Analysis of parallel implementations of the ant colony optimization applied to the minimum weight vertex cover problem*. In WSEAS International Conference. Proceedings. Mathematics and Computers in Science and Engineering, number 5. WSEAS, 2009.

Ris29 Raka Jovanovic, Milan Tuba, **Dana Simian**, *An Object-Oriented framework with Corresponding graphical User interface for developing Ant Colony Optimization Based Algorithms*, WSEAS Transactions on Computers, Issue 12, Volume 7, ISSN 1109-2750, (ACM, WorldCat, Zentralblatt, SCOPUS, Information Systems Journals, British Library, The Collection of Computer Science Bibliographies), pp. 1948-1957, 2008.

Ris30 Raka Jovanovic, Milan Tuba, **Dana Simian**, *An Algorithm for Creation of an Optimized Adaptive Grid for Improved Explicit Finite Difference Scheme*, WSEAS Transactions on Mathematics, Issue 9, Volume 7, ISSN 1109-2769, (ACM, WorldCat, Zentralblatt, SCOPUS, Information Systems Journals, British Library,), pp. 549-558, 2008.

Ris31 **Dana Simian**, Corina Simian, *On some interpolation problems in polynomial spaces with generalized degree*, NAUN International Journal Of Mathematical Models And Methods In Applied Sciences, Issue 1, Vol. 1, ISSN 1998-0140, (Zentralblatt), pp. 147-150, 2007.

Ris32 Dušan Bulatović, Milan Tuba, **Dana Simian**, *Vulnerability of smartcards and methods to defete attacks*, The International review of Applied Economics, Vol. 4 (2), UDK 33,

ISSN 1820-4570, Megatrend University, Belgrad (digital.nbs.bg.ac.zu, Zentralblatt), pp. 51-67, 2007.

Ris33 **Dana Simian**, *On some Hermite Bivariate Interpolation Schemes*, WSEAS Transactions on Mathematics, Issue 12, Vol. 5, ISSN 1109 – 2769, (ACM, WorldCat, Zentralblatt, British Library Direct, SCOPUS, Information Systems Journals, British Library), pp. 1322 – 1330, 2006.

Ris34 **Dana Simian**, *A remainder formula for Hermite multivariate interpolation*. Mathematica Balkanica, vol.19, Fasc. 1-2, ISSN 02005-3217, (io-port.net, WorldCat, Zentralblatt), pp. 204 – 214, 2005.

Ris35 **Dana Simian**, *A generalization of the remainder in multivariate interpolation*, WSEAS Transactions on Mathematics, nr. 484, ISSN 1109-2769, (ACM, Zentralblatt, Computer Science Bibliographies, Information Systems Journals, British Library), pp. 334-340, 2004.

Reviste de specialitate de circulație internațională

Rio1 **Dana Simian**, *On the Continuity of a Multivariate Interpolation Scheme*, Bulletins for Applied & Computer Mathematics, Panonian Applied Mathematical Meetings Interuniversity Network in Central Europe, BAM -CVII, nr. 2266, ISSN 0133-3526, pp. 19-24, 2005.

Rio2 **Dana Simian**, *Considerations on multivariate polynomial interpolation*, Bulletins for Applied & Computer Mathematics, Panonian Applied Mathematical Meetings Interuniversity Network in Central Europe, BAM -2048 (CII) Budapest, ISSN 0133-3526, pp. 165 – 174, 2002.

Reviste din țară recunoscute C.N.C.S.I.S.

Rns1 **Dana Simian**, Corina Simian, *A Generalization of tensor product method*, Automation, Computers, Applied Mathematics, Vol. 16, no. 1, ISSN 1221–437X, (CNCSIS cat. B+, io-port.net, Math.Revue MR2433100 - 2008), pp. 145-151, 2007.

Rns2 Corina Simian, **Dana Simian**, *Aspects related to Multivariate Interpolation*, Automation, Computers, Applied Mathematics, vol. 15, nr. 2, ISSN 1221-437x, (CNCSIS cat. B+, io-port.net, Zentralblatt, Math.Revue MR2426944 - 2007), pp. 307-313, 2006.

Rns3 **Dana Simian**, Corina Simian, *Some Results in Multivariate Interpolation*, Acta Universitatis Apulensis, No. 11, ISSN 1592-5329, (Zentralblatt, EMIS ELibM:Mathematical Journals, CNCSIS cat. B+), pp. 47-57, 2005.

Rns4 **Dana Simian**, Corina Simian, *On multivariate interpolation by weights*, Analele științifice ale Universității "Ovidius" Constanța, seria Matematica, vol. 11, fasc. 2, ISSN 1223-723x, pp. 137-145, 2003. (<http://mathnet.preprints.org/EMIS/journals/ASUO/volume-xi-2003-fascicola-2.html>, factor 0.02)

Rns5 **Dana Simian**, Corina Simian, *H-bases and Interpolation*, General Mathematics, vol. 11, No. 1-2, ISSN 1211-5023, (Zentralblatt), pp. 63-76, 2003.

Rns6 **Dana Simian**, *On Hermite Multivariate Interpolation*. Bul. științific, Baia Mare, seria B, Matematică-Informatică, Vol XVIII, nr.2, pp. 331-336, 2002.

Rns7 **Dana Simian**, *Homogeneous Polynomial Interpolation of Multivariate Functions*. Automation, Computers, Applied Mathematics, Scientific Journal, Vol 11, nr.1, ISSN 1221-437x (io-port.net, Zentralblatt, Math.Revue MR2428259 - 2003), pp. 133-138, 2002.

Rns8 **Dana Simian**, *On the bivariate Polynomial Interpolation*. Acta Technicum Napocensis, 44, vol.1, ISSN 1221-5872, pp. 97-105, 2001.

Rns9 **Dana Simian**, *Proprietăți ale polinoamelor fundamentale de interpolare pentru o nouă schemă de interpolare multidimensională*, Analele științifice ale Universității "Ovidius" Constanța, Secția matematică, Vol VIII, fascicola 1, ISSN 1223-723x, pp. 151-159, 2000.

Rns10 **Dana Simian**, *On a generalized Lagrange polynomial*, General Mathematics, 2, vol. 2, ISSN 1211-5023, (Zentralblatt), pp. 79-86, 1994.

4^o Articole/studii publicate în volumele unor manifestări științifice: a) internaționale recunoscute (cu ISSN sau ISBN) din țară și din străinătate (Vi) și b) naționale (Vn), inclusiv cotate ISI sau indexate în baze de date internaționale.

Articole publicate în volumele unor manifestări științifice internaționale recunoscute, care apar în ISI Thomson – Science Citation Index Expanded (Web of Science)
(aceste articole sunt indexate și în alte baze de date internaționale: Scopus, Zentralblatt, IEEE, Engineering Village)

Vi1 A Alihodzic, E Tuba, **D Simian**, V Tuba, M Tuba, *Extreme Learning Machines for Data Classification Tuning by Improved Bat Algorithm*, Proceedings of 2018 IEEE International Joint Conference on Neural Networks (IJCNN), 1-8, ISSN: 2161-4407, 2018, <https://ieeexplore.ieee.org/abstract/document/8489546>, DOI: 10.1109/IJCNN.2018.8489546

Vi2 E Tuba, **D Simian**, E Dolicanin, R Jovanovic, M Tuba, *Energy Efficient Sink Placement in Wireless Sensor Networks by Brain Storm Optimization Algorithm*, 2018, 14th IEEE International Wireless Communications & Mobile Computing Conference (IWCMC), 718-723, 2018, <https://ieeexplore.ieee.org/abstract/document/8450333>, DOI: 10.1109/IWCMC.2018.8450333

Vi3 Eva Tuba, Milan Tuba, **Dana Simian**, *Wireless Sensor Network Coverage Problem Using Modified Fireworks Algorithm*, Proceedings of 12th International Wireless Communications & Mobile Computing Conference, IWCMC 2016, Paphos, Cyprus, 5-7 Sept. 2016, pp. 696-702, 978-1-5090-0302-0, 2016, DOI: 10.1109/IWCMC.2016.7577141, <http://ieeexplore.ieee.org/document/7577141/>

Vi4 Eva Tuba, Milan Tuba, **Dana Simian**, *Adjusted Bat Algorithm for Tuning of Support Vector Machine Parameters*, Proceedings of 2016 IEEE Congress on Evolutionary Computation - CEC, 24-29 iulie, Vancouver, Canada (parte a IEEE World Congress of Computational Intelligence), pp. 2225 - 2232, ISBN: 978-1-5090-0622-9, 2016, <http://ieeexplore.ieee.org/document/7744063/> DOI: 10.1109/CEC.2016.7744063

Vi5 Eva Tuba, Milan Tuba, **Dana Simian**, *Handwritten Digit Recognition by Support Vector Machine Optimized by Bat Algorithm*, 24th International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision, (WSCG 2016), Computer Science Research Notes, 369-377, ISSN 2464-4617 (print), ISSN 2464-4625 (CD-ROM), 2016, <http://www.wscg.eu/>, http://wscg.zcu.cz/WSCG2016/!!_CSRN-2602.pdf

Vi6 Eva Tuba, Milan Tuba, **Dana Simian**, *Range based wireless sensor node localization using bat algorithm*, Proceedings of the 13th ACM Symposium on Performance Evaluation of Wireless Ad Hoc, Sensor, & Ubiquitous Networks, 2016, 41-44, ISBN: 978-1-4503-4505-7doi>10.1145/2989293.2989304, 2016, <https://dl.acm.org/citation.cfm?id=2989304>

Vi7 Eva Tuba, Milan Tuba, **Dana Simian**, *Support Vector Machine Optimized by Firefly Algorithm for Emphysema Classification in Lung Tissue CT Images*, Short Paper proceedings, 25th International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision (WSCG 2016), Ed. Vaclav Scala, , Plzen, Czech Republic, pp. 159-166, CSRN 2702, ISSN 2464-4617, ISSN (CD-RM) 2464-4625, ISBN 978-80-86943-45-9, 2017, <http://wscg.zcu.cz/wscg2017/short/M89-full.PDF>

Vi8 **Dana Simian**, *Mixed Techniques in Evolutionary Computing - Recent advances in Neural Networks, Fuzzy systems and evolutionary computing*, Proceedings of 11th International Conference on Evolutionary Computing, EC '10, Iasi, Romania (13-15 Iunie, 2010), pg. 15, ISSN 978-960-474-195-3

Vi9 **Dana Simian**, Florin Stoica, *Optimizing a New Nonlinear Reinforcement scheme with breeder algorithm*, Fuzzy systems and evolutionary computing, Proceedings of 11th International Conference on Evolutionary Computing, EC '10, Iasi, Romania (13-15 Iunie, 2010), pg. 15, ISSN 978-960-474-195-3, pp.273-278.

Vi10 Dana Simian, Florin Stoica, *An Evolutionary Method for Constructing Complex SVM Kernels*, Recent Advances in Mathematics and Computers in Biology and Chemistry, Proceedings of the 10th International Conference on Mathematics and Computers in Biology and Chemistry, MCBC'09, Prague, Czech Republic, 2009, ISBN 978-960-474-062-8, ISSN 1790-5125, (ISI, ACM), pp. 172-178, 2009.

Vi11 Dana Simian, Corina Simian, Oana Danciu, Lavinia Daniu, *Aspects in Development of Statistic data Analysis in Romanian Sanitary System*, Recent Advances in Mathematics and Computers in Biology and Chemistry, Proceedings of the 10th International Conference on Mathematics and Computers in Biology and Chemistry, MCBC'09, Prague, Czech Republic, 2009, ISBN 978-960-474-062-8, ISSN 1790-5125, (ISI, ACM), pp. 178-184, 2009.

Vi12 Raka Jovanovic, Milan Tuba, Dana Simian, *A New Visualisation Algorithm for the Mandelbrot set*, Recent Advances in Mathematics and Computers in Biology and Chemistry, Proceedings of the 10th International Conference on Mathematics and Computers in Biology and Chemistry, MCBC'09, Prague, Czech Republic, 2009, ISBN 978-960-474-062-8, ISSN 1790-5125, (ISI, ACM), pp. 162-167, 2009.

Vi13 Raka Jovanovic Milan Tuba, Dana Simian, *Analysis of Parallel Implementations of the Ant Colony Optimization Applied to the Minimum Weight Vertex Cover Problem*, the 9th International Conference on Simulation, Modelling And Optimization (Smo '09), 2009, ISBN: 978-960-474-113-7, pp. 254-259, 2009.

Vi14 Dana Simian, Florin Stoica, *Evaluation of a hybrid method for constructing multiple SVM kernels*, Proceedings of the 13th International Conference on Computers, Rhodos, Greece, 2009, ISSN: 1790-5109, ISBN: 978-960-474-099-4, pp. 619-623, 2009.

Vi15 Dana Simian, Corina Simian, *Applications of Taylor Formula*, Recent Advances In Mathematical And Computational Methods In Science And Engineering, Mathematics and Computers in Science and Engineering, Proceedings of 10th Int. Conf. On Mathematical and Computational Methods in Science And Engineering, MACMESE'08, Bucharest, Romania 2008, ISSN 1790-2769, ISBN 978-960-474-019-2 (ISI, ACM), pp. 524 – 528, 2008.

Vi16 Raka Jovanovic, Milan Tuba, Dana Simian, *Developing an Object-Oriented Framework for Solving Problems Using Ant Colony Optimization*, Recent Advances In Mathematical And Computational Methods In Science And Engineering, Mathematics and Computers in Science and Engineering Series, Proceedings of 10th Int. Conf. On Mathematical and Computational Methods in Science And Engineering, MACMESE'08, Bucharest, Romania 2008, ISSN 1790-2769, ISBN 978-960-474-019-2 (ISI, ACM), pp. 528 – 533, 2008.

Vi17 Dana Simian, *Theory and Computation in Modelling Complex Systems*, Plenary lecture, Recent Advances In Mathematical And Computational Methods In Science And Engineering, Mathematics and Computers in Science and Engineering Series, Proceedings of 10th Int. Conf. On Mathematical and Computational Methods in Science And Engineering, MACMESE'08, Bucharest, Romania 2008, ISSN 1790-2769, ISBN 978-960-474-019-2 (ISI, ACM), pp. 467-467, 2008.

Vi18 Dana Simian, *Nature Inspired Algorithms in Intelligent Systems Modelling*, Plenary lecture, 10th Int. Conf. On Mathematical Methods, Computational Techniques and Intelligent Systems (MAMECTIS '08), Corfu Octombrie 2008, ISBN 978-960-474-012-3, ISSN 1790-2769, (ISI, ACM), pp. 19-19, 2008.

Vi19 Florin Stoica, Dana Simian, *Automatic control based on Wasp Behavioral Model and Stochastic Learning Automata*, Proceedings of 10th int. Conf. On Mathematical Methods, Computational Techniques and Intelligent Systems (MAMECTIS '08), Corfu, Octombrie 2008, ISBN 978-960-474-012-3, ISSN 1790-2769, (ISI, ACM), pp. 289-295, 2008.

Vi20 Dana Simian, Corina Simian, *On Lagrange Interpolation*, Proceedings of Int. Conf. On Mathematical Methods, Computational Techniques and Intelligent Systems (MAMECTIS '08), Corfu Octombrie 2008, ISBN 978-960-474-012-3, ISSN 1790-2769, (ISI, ACM), pp. 332-338, 2008.

Vi21 Perica Strbac, Milan Tuba, **Dana Simian**, *An Upgraded Petri Net Model of Systolic Architecture for Solving Differential Equations Based on Taylor's Method*, Proceedings of 10th Int. Conf. On Mathematical Methods, Computational Techniques and Intelligent Systems (MAMECTIS '08), Corfu Octombrie 2008, ISBN 978-960-474-012-3, ISSN 1790-2769, (ISI, ACM), pp. 353 -359, 2008.

Vi22 **Dana Simian**, *A Model For a Complex Polynomial SVM Kernel*, Proceedings of the 8-th Int. Conf. on Simulation, Modelling and Optimization, Santander Spain, 2008, within Mathematics and Computers in Science and Engineering Series, ISSN 1790 -2769, ISBN 978- 960-474-007-9, (ISI, ACM, The Collection of Computer Science Bibliographies), pp. 164-170, 2008.

Vi23 **Dana Simian**, Florin Stoica, Angela Curtean Banăduc, *Multi-Agent System models for monitoring optimization within a site Natura 2000*, Mathematics and Computers in Biology and Chemistry, Proceedings of 9th Int. Conf. on Mathematics and Computers in Biology and Chemistry MCBC'08, Bucharest, Romania 2008, ISSN 1790-2769, ISBN 978-960-474-019-2, (ISI, ACM), pp. 212-217, 2008.

Vi24 Corina Simian, **Dana Simian**, *On Some Algebraic Aspects of Multivariate Interpolation*, New Aspects of Computers, Part I, Proceedings of the 12-th International Conference on Computers, Heraklion Crete, 2008, ISBN 978-960-6766-85-5, ISSN 1790-5109, (ISI, ACM), pp. 332-337, 2008.

Vi25 **Dana Simian**, Vladislav Georgiev, Corina Simian, *A search optimization model in network having broken packages*, New Aspects of Computers, Part I, Proceedings of the 12-th International Conference on Computers, Heraklion Crete, 2008, ISBN 978-960-6766-85-5, ISSN 1790-5109, (ISI, ACM), pp. 337-341, 2008.

Vi26 **Dana Simian**, *Generalized polynomial Spaces in Three Variables: Computational Aspects*, New Aspects of Computers, Part I, Proceedings of the 12-th International Conference on Computers, Heraklion Crete, 2008, ISBN 978-960-6766-85-5, ISSN 1790-5109, (ISI, ACM), pp. 328-332, 2008.

Vi27 Raka Iovanoic, Milan Tuba, **Dana Simian**, *An Algorithm for Multi-Resolution Grid Creation Applied to Explicit Finite Difference Scheme*, New Aspects of Computers, Part III, Proceedings of the 12-th International Conference on Computers, Heraklion Crete, 2008, ISBN 978-960-6766-85-5, ISSN 1790-5109, (ISI, ACM), pp.1123- 1128, 2008.

Vi28 Florin Stoica, **Dana Simian**, *Approaches to cognitive support in biomedical knowledge-based systems*, Mathematics and Computers in Biology and Chemistry, Proceeding of 9th Int. Conf. on Mathematics and Computers in Biology and Chemistry MCBC'08, București 2008, ISBN 978-960-6766-75-6, ISSN 1790-5125, (ISI, ACM), pp. 217-223, 2008.

Vi29 Milan Tuba, Dusan Bulatovic, Olga Miljkovic, **Dana Simian**, *Specific Attack Adjusted Bayesian Network for Intrusion Detection System*, Mathematics and Computers in Biology and Chemistry, Proceeding of 9th Int. Conf. on Mathematics and Computers in Biology and Chemistry MCBC'08, București 2008, ISBN 978-960-6766-75-6, ISSN 1790-5125, (ISI, ACM), pp. 107-112, 2008.

Vi30 **Dana Simian**, *New Trends in Multivariate Approximation and Optimization*, Plenary lecture, Mathematics and Computers in Biology and Chemistry, Proceeding of 9th Int. Conf. on Mathematics and Computers in Biology and Chemistry MCBC'08, București 2008, ISBN 978-960-6766-75-6, ISSN 1790-5125, (ISI, ACM), pp.16-16, 2008.

Vi31 **Dana Simian**, Florin Stoica, Corina Simian, *Models for a Multi-Agent System Based on Wasp-Like Behaviour for Distributed Patients Repartition*, Advanced topics on evolutionary computing, Proceeding of the 9-th Conference on Evolutionary Computing, Sofia 2008, ISSN 1790-5109, ISBN 978-960-6766-58-9, (ISI, ACM), pp. 82-87, 2008.

Vi32 Florin Stoica, **Dana Simian**, Corina Simian, *A new co-mutation genetic operator*, Advanced topics on evolutionary computing, Proceeding of the 9-th Conference on Evolutionary Computing, Sofia 2008, ISSN 1790-5109, ISBN 978-960-6766-58-9 (ISI, ACM), pp. 76-82, 2008.

Vi33 **Dana Simian**, Corina Simian, *An interpolation problem in generalized degree polynomial spaces*, Computer Science and Technology, Proceedings of the 11th International Multiconference

CSCC, Conference on Computers, Crete 2007, vol. 4, ISSN 1790-5117, ISBN 978-960-8457-91-1, (ISI, ACM, British Library), pp. 366-370, 2007.

Vi34 Corina Simian, **Dana Simian**, *On Lagrange multivariate interpolation problem in generalized degree polynomial spaces*, Computer Science and Technology, Proceedings of the 11th International Multiconference CSCC, Conference on Computers, Crete 2007, vol. 4, ISSN 1790-5117, ISBN 978-960-8457-91-1, (ISI, ACM, British Library), pp. 455-458, 2007.

**Articole publicate în volumele unor manifestări științifice internaționale recunoscute,
care apar în baze de date internaționale**

Vi35 Petrica Bota, Robert Sandica, **Dana Simian**, *The integration of augmented reality in everyday life*, Modeling and Development of Intelligent Systems, Proceedings of Int. Conf. MDIS 2017, Sibiu, Romania, pp. 13-19, Lucian Blaga Univ. Press, 2018, ISSN 2067-3965

Vi36 **Dana Simian**, Bota Petrica, Sandica Robert, *Virtual Reality Teaching*, Inovative Teaching Method, ISBN 978-954-21-0930-3, 2017, pp. 143-149

Vi37 **Dana Simian**, Ralf Fabian, *Ownership tracking with dynamic identification of watermark patterns*, Modeling and Development of Intelligent Systems, Proceedings of Int. Conf. MDIS 2015, Sibiu, Romania, pp. 113-124, Lucian Blaga Univ. Press, 2016, ISSN 2067-3965

Vi38 **Dana Simian**, Petrică Bota, Robert Sandică, *Interactive virtual world for games*, Modeling and Development of Intelligent Systems, Proceedings of Int. Conf. MDIS 2015, Sibiu, Romania, pp. 124-130, Lucian Blaga Univ. Press, 2016, ISSN 2067-3965

Vi39 Letiția Velcescu, **Dana Simian**, Marius Marin, *A Method for Sampling Random Databases with Constraints*, Modeling and Development of Intelligent Systems, Proceedings of Int. Conf. MDIS 2013, Sibiu, Romania, pp. 146-156, Lucian Blaga Univ. Press, 2014, ISSN 2067-3965

Vi40 Alina Bărbulescu, **Dana Simian**, *Theoretical and practical approaches for time series prediction*, Modeling and Development of Intelligent Systems, Proceedings of Int. Conf. MDIS 2013, Sibiu, Romania, pp. 40-49, Lucian Blaga Univ. Press, 2014, ISSN 2067-3965

Vi41 Stancu Mihai, **Dana Simian** – Parallel – *A zero-Client Computing Application*, Advances in Automatic Control, Modelling and Simulation, Proceedings of 15th Int. Conference on Automatic Control, Modelling and Simulation, Brasov, Romania, pp.360-364, (2013), ISBN 978-1-61804-189-0.

Vi42 Laura Florentina Stoica, Florin Stoica, **Dana Simian**, *Client/Server Implementation of an ATL Model Checker Using Web Services*, Recent Researches in Communications and Computers, Proceedings of the 16th Int. Conference on Computers, Kos Island, Greece, pp. 359-364, (2012), ISBN 978-1-61804-109-8.

Vi43 **Dana Simian**, Daniel Hunyadi, Angela Bănăduc, *Design and Implementation of a Clustering Model for River Sectors based on Biotope Characteristics*, Proceedings of the 5th World Applied Computing Conference, Faro, Portugal, (2012), pp. 162-167, ISSN: 1790-5109, ISBN: 978-1-61804-089-3

Vi44 Raka Jovanovic, Milan Tuba, **Dana Simian**, *Parallelization of the Local Threshold and Boolean Function Based Edge Detection Algorithm Using CUDA*, Proceedings of the 5th World Applied Computing Conference, Faro, Portugal, (2012), pp. 157-161, ISSN: 1790-5109, ISBN: 978-1-61804-089-3

Vi45 Milos Subotic, Milan Tuba, Nebojsa Bacanin, **Dana Simian**, *Parallelized Cuckoo Search Algorithm for Unconstrained Optimization*, Proceedings of the 5th World Applied Computing Conference, Faro, Portugal, (2012), pp. 151-156, ISSN: 1790-5109, ISBN: 978-1-61804-089-3

Vi46 Daniela Marinescu, Alexandra Baicoianu, **Dana Simian**, *The determination of the guillotine restrictions for a Rectangular Three Dimensional Bin Packing Pattern*, Proceedings of the 15th International Multiconference CSCC, Conference on Computers, Corfu, (2011), pp. 491-496, ISSN: 1792-4251 ISBN: 978-1-61804-019-0

Vi47 Dana Simian, Florin Stoica, *Generic Reinforcement Schemes and Their Optimization*, Proceedings of the European Computing Conference, Paris, (2011), pp. 332-337, ISBN: 978-960-474-297-4

Vi48 Laura Cacovean, Florin Stoica, **Dana Simian**, *A New Model Checking Tool*, Proceedings of the European Computing Conference, Paris, (2011), pp.358-364, ISBN: 978-960-474-297-4

Vi49Ralf D. Fabian, **Dana Simian**, *Bounded Rationality and Visual Pattern Transmission*, Proceedings of the European Computing Conference, Paris, (2011), pp. 421-427, ISBN: 978-960-474-297-4

Vi50**Dana Simian**, *Reinforcements learning and applications* (plenary lecture), Proceedings of the European Computing Conference, Paris, (2011), pp. 19, ISBN: 978-960-474-297-4

Vi51Slobodan Obradovic, Milan Tuba, **Dana Simian**, *Impact of Toothed Gear Nonlinearities on Servomechanism Performance*, Proceedings of the 12th International Conference on Automatic Control, Modelling & Simulation, Catania, (2010), pp. 235-241, ISSN: 1790-5117 ISBN: 978-954-92600-1-4

Vi52Raka Jovanovic, Milan Tuba, **Dana Simian**, *Ant Colony Optimization Applied to Minimum Weight Dominating Set Problem*, Proceedings of the 12th International Conference on Automatic Control, Modelling & Simulation, Catania, (2010), pp. 322-326, ISSN: 1790-5117 ISBN: 978-954-92600-1-4

Vi53**Dana Simian**, Corina Simian, *New Approach for Modelling the Distribution of Projects' Activities in an e-Learning Environment*, Proceedings of the 12th International Conference on Automatic Control, Modelling & Simulation, Catania, (2010), pp. 445-449, ISSN: 1790-5117 ISBN: 978-954-92600-1-4

Vi54**Dana Simian**, Florin Stoica, *A New Nonlinear Reinforcement Scheme for Stochastic Learning Automata*, Proceedings of the 12th International Conference on Automatic Control, Modelling & Simulation, Catania, (2010), pp. 450-454, ISSN: 1790-5117 ISBN: 978-954-92600-1-4

Vi55**Dana Simian**, Corina Simian, *Shape design component of a strain-stress analysis system*, Latest Trends On Computers (Volume II), Proceedings of the 14th International Conference on Computers, Corfu, (2010), pp. 710-715, ISSN: 1792-4251 ISBN: 978-960-474-213-4

Vi56**Dana Simian**, *On a new approach to obtain spline Bézier curves*, Latest Trends On Computers (Volume II), Proceedings of the 14th International Conference on Computers, Corfu, (2010), pp. 716-720, ISSN: 1792-4251 ISBN: 978-960-474-213-4

Vi57**Dana Simian**, *On an approach for optimizing the kernel choice in SVM method*, Proceedings of the International Workshop, "New trends in approximation, optimization and classification", Sibiu, Romania, 2008, Lucian Blaga University Press, ISBN 978-973-739-678-5, pp. 71-78, 2008.

Vi58**Dana Simian**, *Multivariate Interpolation: from theory to applications*, Proceedings of the International Workshop "New approaches, Algorithms and Advanced Computational Techniques in Approximation Theory and its Applications", Sibiu, Romania, 2007, Lucian Blaga University Press, ISBN 978-973-739-494-1, pp. 7-19, 2007.

Vi59**Dana Simian**, Corina Simian, Milan Tuba, *A Model For Patients' Repartition In A Virtual Environment Based On A Multi-Agent System*, Proceedings of International Workshop "E-learning aspects in medicine and nursing", MEDINF 2007, publicație electronică, ISBN 978-973-739-592-4, 2007.

Vi60**Dana Simian**, *On a Bivariate Interpolation Formula*, Proceedings of the 8th International Conference On Mathematical Methods And Computational Techniques In Electrical Engineering (MMACTEE '06), ISSN 1790-5117, ISBN 960-8457-54-8, pp. 113-118, 2006.

Vi61**Dana Simian**, Corina Simian, *On an approach for cubic Bézier interpolation*, Proceedings of the Second International Conference "Modelling and Development of Intelligent Systems", Sibiu, Romania, (2011), pp. 152-159, ISSN: 2067-3965, ISBN: 978-606-12-0243-0

Vi62 Dana Simian, *Wasp based algorithms and applications*, Proceedings of the first International Conference "Modelling and Development of Intelligent Systems", Sibiu, Edit. Universitatii Lucian Blaga din Sibiu, ISSN 2067-3965, pp. 229-237, 2009.

Articole publicate în volumele unor manifestări științifice internaționale recunoscute

Vi63 Dana Simian, Corina Simian, *On a multivariate interpolation formula's application*, Proceedings of International Workshop "New Trends in Approximation, Classification and Optimization", Sibiu, 2008, Lucian Blaga University Press, ISBN 978-973-739-678-5, pp. 63-73, 2008

Vi64 Dana Simian, *Multivariate Polynomial Interpolation: from Theory to Applications*, Proceedings of International Workshop "New approaches, Algorithm and Advanced Computational Techniques in Approximation Theory and its applications", Sibiu, 2007, Lucian Blaga University Press, ISBN 978-973-739-494-1, pp.7-19, 2007

Vi65 Dana Simian, *Analysis of some multidimensional interpolation scheme*, Proceedings of "The 10-th International Symposium of Mathematics and its Applications", Timișoara, ISSN 1224-6069, pp. 143-151, 2003.

Vi66 Dana Simian, *The λ - remainder in minimal polynomial interpolation of multivariate functions*, Proceedings of International Symposium on Numerical Analysis and Approximation Theory, dedicated to the 75th Anniversary of Professor Dr. Dimitrie D. Stancu, Cluj University Press, ISBN 973-610-166-5, pp. 418-429, 2002.

Vi67 Dana Simian, *Multivariate interpolation from polynomial subspaces of w -degree n* , Mathematical Analysis and Approximation Theory, Proceedings of the 5-th Romanian - German Seminar on Approximation Theory and its Applications, Burg-Verlag, Sibiu, ISBN 973-85647-4-3, pp. 243-254, 2002.

Vi68 Dana Simian, *Ideal interpolation schemes*, Proceedings of "The 9-th International Symposium of Mathematics and its Applications", Timișoara, ISSN 1224-6069, pp. 145-153, 2001.

Vi69 Dana Simian, *Aplicații ale transformatei Radon în tomografie*. Algoritmi de reconstrucție, Proceedings of the International Conference "Development and Competitivity", Sibiu, ISBN 973-98703-8-4, pp. 351-356, 1999.

Vi70 Dana Simian, *Multivariate interpolation and some applications*, Proceedings of "The 8-th International Symposium of Mathematics and its Applications", Timișoara, pp. 145-151, ISSN 1224-6069, 1999.

Articole publicate în volumele unor manifestări științifice naționale recunoscute

Vn 1 Dana Simian, *On some particular examples for least interpolation*, Proceedings of the 6-th Annual Conference of the Romanian Society of Mathematical Sciences, Sibiu, vol. I, ISBN 973-651-634-2, pp. 129-146, 2003.

Vn 2 Dana Simian, *Considerations on Gauss elimination by segments algorithm*, Proceedings of the 6-th Annual Conference of the Romanian Society of Mathematical Sciences, Sibiu, vol. II, ISBN 973-651-649-0, pp. 47-58, 2003.

Vn 3 Dana Simian, *The dual of a polynomial interpolation operator*, Proceedings of the Annual Meeting of the Romanian Society of Mathematical Sciences, Ed. Universității Transilvania, Brașov, ISBN 973-635-044-4, pp. 289-296, 2001.

Vn 4 Dana Simian, *On the connection between multivariate interpolation and some algorithms of Gram-Schmidt type*, Proceedings of the Anniversary Conference of "Petru Maior" University of Tg. Mureș, vol. 8, Ed. Universității "Petru Maior" Tg. Mureș, ISBN 973-8084-10-5, pp. 99-107, 2000.

Vn 5 Dana Simian, *On a family of roof surfaces obtaining by mean of blending interpolation*, Proceedings of the Anniversary Conference of "Petru Maior" University of Tg.

Mureș, vol. 8, Ed. Universității "Petru Maior" Tg. Mureș, ISBN 973-8084-10-5, pp. 107-115, 2000.

Vn 6 **Dana Simian**, *Algoritm de calcul pentru o nouă schemă de interpolare multidimensională*, Proceedings of "CITTI 2000" (Conferința de Informatică Teoretică și Tehnologii Informaticice) Constanța 2000, ISBN 973-8082-10-2, ISBN 973-9286-59-3, pp. 16-20, 2000.

5⁰ Proiecte de cercetare-dezvoltare-inovare: a) obținute prin competiție pe bază de contract/grant în țară / străinătate (Pn – naționale, Pi – internaționale); b) alte lucrări de cercetare dezvoltare (contracte individuale de cercetare - F1, F2 etc.)

Pn 1 Grant CNCSIS 33-2007, *Cercetări privind interpolarea polinomială multidimensională, clasificatorii polinomiali și aplicații*, perioada de derulare 2007 – 2008, **director de proiect Dana Simian**

Pn 2 Grant individual de cercetare exploratorie obținut prin competiție, finanțat de ULBS: LBUS-IRG-2015-01, *Noi metaeuristici hibride inspirate din natură și aplicații*, perioada de derulare 2015– 2019

Pn 3 Grant individual de cercetare exploratorie obținut prin competiție, finanțat de ULBS: LBUS-IRG-2022-08, *Cercetări asupra metodelor de optimizare a modelelor de Machine Learning si aplicații*, 2022-2024

Pi 1 Research project founded by the „LARS” grant program, lars - 03.08/int. 301723, of the state Baden Wurttemberg, Germania., cu tema *Motivation durch Praxislösungen – Untersuchung von innovativen didactischen Lösungen im Rahmen der im Bologna – Prozess angestrebten Strategie „Shift from Teaching to Learning”*, grant castigat prin competiție, perioada de derulare 2008 – 2009(etapa 1), 2009-2010(etapa 2), director de proiect, prof. dr. Dan Eugen Ulmet, University of Applied Sciences, Esslingen, Germania, **responsabil echipă parteneră din Universitatea Lucian Blaga Sibiu - Dana Simian.**

F 1 Proiect național “*IBM Country Project Initiative DB2 Management . Promoting DB2 Information Management Software in Romanian Technical Universities ” și "DB2 Content Management in Applied Informatics Master Courses"* - Elaborare documentație a două capitole în două volume despre DB2: DB2 Fundamente (curs) și DB2 Exerciții. Perioada de derulare anul 2006.

02.10.2023

Prof. Univ. dr. Dana Simian