

# Curriculum Vitae

<b>Name and surname:</b>	Aleš Zamuda	
<b>Born:</b>	April 23 1982	in Ptuj, Republic of Slovenia (RS), EU
<b>Languages:</b>	native Slovenian, fluent active knowledge of English and German (DSD-St.II), Croatian (good), and French (basic understanding)	
<b>School:</b>	1989 – 1997	Primary school Velika Nedelja, RS, EU
	1997 – 2001	Gimnazija Ptuj, RS, EU
	2001 – 2012	Faculty of Electrical Engineering and Computer Science, University of Maribor, RS, EU
<b>Education:</b>	2006	B. Sc. in computer science
	2008	M.Sc. in computer science
	2012	Ph.D. in computer science
<b>Employment:</b>	2006 –	Computer Architecture and Languages Laboratory, Faculty of Electrical Engineering and Computer Science, University of Maribor, RS, EU
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Dr. Aleš Zamuda was born on April 23 1982 in Ptuj, Slovenia. First he visited the primary school in Velika Nedelja. He pursued his passion for programming since the first grade. In primary school he began programming Logo, Basic, Pascal, and C; he also became acquainted with languages of web technology and visited private national and international summer schools on computer science. He continued his secondary education at Gimnazija Ptuj. Later he received B. Sc. degree in computer science from University of Maribor (UM) in 2006 as the first graduate of his generation and became an affiliate of the faculty. He successfully defended his master thesis in computer science at UM in 2008 with the average mark of 10. In 2012 he successfully defended his dissertation in the field of computer science entitled “Differential Evolution for Parameterized Procedural Woody Plant Models Reconstruction” and received his PhD from University of Maribor. During secondary education and undergraduate studies he was a talented student Zois stipendist. In 2008 he was awarded with Andrej Perlach research award by UM. During graduate study he received three research awards from FERI UM, an international student paper contest award from IEEE in 2007, and a golden medal at Seoul 2012 invention fair from his dissertation. His bibliography includes over thirty international scientific publications and among them several journal papers ranked in first quarter of computer science category such as Applied Soft Computing and Information Sciences and he received several citations of his scientific works. As an affiliate of Faculty of Electrical Engineering and Computer Science at the University of Maribor he acts within research group Computer Architecture and Languages Laboratory and programme-funded unit Computer Systems, Methodologies, and Intelligent Services. His biography is selected into Marquis Who’s Who in the World 2013. He is a member of the international Institute of Electrical and Electronics Engineers (IEEE) and IEEE CIS and a reviewer for several international prominent scientific journals on computer science with high impact factor. He also served in program and technical committees of major scientific conferences on computational intelligence including CEC since 2007 in Singapore. He won several competitions on programming, national and international; developed open source software and sold several applications. He also lectures in university pedagogical subjects, such as Computer Architecture, Heterogeneous Computer Systems, Connectible Systems and Intelligent Services, student projects on game programming (iGame), and diploma works.

## Working Experience

1. Affiliated with the Faculty of Electrical Engineering and Computer Science in Computer Architecture and Languages Laboratory, first as technical staff (2006 – 2009), later as teaching assistant (from 2009 on),
  - (a) academic title: teaching assistant (2006-),
  - (b) additional employment on a project in research program P2-0041 Computer Systems, Methodologies, and Intelligent Services (2012-): a most important scientific result in 2011,
  - (c) leading of practical computer lessons for courses: Programming I (2011/12, 2012/13, 2013/4), Computer Architecture (2008/9, 2009/10, 2010/11, 2011/12, 2012/13, 2013/4), Heterogenous Computer Systems (2008/9, 2009/10, 2010/11, 2011/12), Connectible Systems and Intelligent Services (2010/11, 2011/12, 2012/13), System Administration (2010/11), Programming 1 UNI (2011/12),
  - (d) leading student iGame projects Network Games (2011–’2) and Mobile Games (2012–’3),
  - (e) member of commission for promotion of the study program at FERI (from 2007 on) and
  - (f) president of inventory central commission at FERI (2009),
2. member of international bodies, such as the Institute of Electrical and Electronics Engineers (IEEE) and IEEE Computational Intelligence Society (CIS)
  - (a) reviewer for international scientific journals with high citation index (SCI): IEEE Transactions on Evolutionary Computation, IEEE transactions on systems, man and cybernetics. Part B. Cybernetics, IEEE Computational Intelligence Magazine Information Sciences – Elsevier, Engineering Applications of Artificial Intelligence – Elsevier, International Journal of Systems Science (Taylor & Francis), Journal of industrial and management optimization, IEEE transactions on industrial electronics, etc. (see pg.14),
  - (b) program committee member of the IEEE SSCI 2014 (Orlando, Florida, USA), BIOMA 2014, FUTURE COMPUTING 2014, PPSN 2014, ICACCI 2014, IACIET-2014, ICAISC 2014, ICIT 2014, IEEE congresses on evolutionary computation IEEE CEC 2011 (New Orleans, ZDA), 2013 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2013) Symposium on Differential Evolution (SDE), 11th International Conference on Artificial Intelligence and Soft Computing (ICAISC 2012) Symposium on Swarm Intelligence and Differential Evolution (SIDE), Zakopane IEEE SSCI 2011 (Paris, France), IEEE WCCI 2010 (Barcelona, Spain), IEEE CEC 2009 (Trondheim, Norway), IEEE WCCI 2008 (Hong Kong, Kitajska), IEEE CEC 2007 (Singapore), and other,
  - (c) member of Slovenian group on nature inspired algorithms and Slovenian Artificial Intelligence Society (SLAIS) and AVN.
3. B. Sc. thesis work done with honors in the Laboratory for Computer graphics and artificial intelligence entitled *Modeling and Simulation modeling tree ecosystems*, mentor full prof. dr. Nikola Guid (2006),
4. one-month practice at the Center for interdisciplinary and multidisciplinary research and studies: work on a system for e-learning Moodle in PHP (2006),
5. one-month practice in the Laboratory for Computer Graphics and Artificial Intelligence: design of a natural landscapes overgrowth simulator in C++ with Qt4 and OpenGL (2005),

6. student work in the Laboratory for heterogeneous computing systems: implementation of distributed system for RSS news processing in .NET with CSharp (2005),
7. twice for one-month practice in Ljubljana, in the company IxtlanTeam (2001, 2002),
8. one week practice at Hermes Softlab (1998), and
9. at family company A&S, networking programming (in Clipper environment) of accounting calculations application for the Kema company (1995-1997).

## Pedagogical Working Experience

1. Project coordinator for subject set of Networked Games and Mobile Games at study programs R-IT FERİ UM of 1<sup>st</sup> bologna level,
2. tutor for first class of study program R-IT FERİ UM,
3. co-mentor at several diploma works at study programs R-IT FERİ UM of 1<sup>st</sup> bologna level,
4. teaching assistant to prof. Žumer and prof. Brest at study programs R-IT FERİ UM of 1<sup>st</sup> bologna level (Computer Architectures, System Administration, and Heterogeneous Computer Systems), and 2<sup>nd</sup> bologna level of R-IT FERİ UM (Connectible Systems and Intelligent Services),
5. teaching assistant at study programme in Electrical Engineering, course Computer Science at prof. Brest (2007/2008),
6. technical assistant at Computer Architecture and Languages Laboratory FERİ UM: Programming I, Computer Science, Computer Architectures, and Principles of Programming Languages.
7. demonstrator at course Computer Science (2004/2005), and
8. demonstrator at project Computer Literation at Ljudska Univerza Ormož (1997-2003).

## Technological Knowledge and Products

Technological knowledge: in-depth knowledge of C, C++, C#, Java, Delphi, PHP, Python, Ruby, Matlab programming languages; in-depth knowledge of web standards HTML, CSS, XHTML, RSS, Web 2.0, ASP.NET; in-depth knowledge of application frameworks Qt4, Win32 API, and WinForms; \*SQL; mobile platforms programming; trading MQL; in-depth knowledge of QtCreator, KDevelop, MS Visual Studio, Eclipse, JDevelop, and other IDEs, in-depth knowledge of storage formats of office suites OpenOffice.Org (Writer, Calc, Presentation) and Microsoft Office (Word, Excel, PowerPoint); in-depth knowledge of LaTeX, PDF programming; in-depth knowledge of console and graphical usage and driver programming for Linux and Windows; in-depth knowledge of BSD and Mac OS X systems, KDE and GNOME environments; programming and setup of CMS: MediaWiki, Joomla, Moodle, in-depth knowledge of OpenGL; several years of programming AI in own 2D and 3D games, computer language design, and masters thesis knowledge level in evolutionary optimization algorithms.

Products: DEMOWSA algorithm for general optimization of mathematical models or reconstruction of natural tree models, Tree Ecosystem simulation & OpenGL 3D visualization engine EcoMod, Distributed RSS viewer & crawler server for Web CMS, Web page for LabRAJ and other,

Chess engine QuTeChess, board game Four in a row (with AI opponent), game Šnops (with AI car driver), game BlowUp, game Kolo sreče. Also: mobile applications using iOS, Android, and Cordova (games, utilities, and personal finance accounting).

## Citations in Scientific Literature

Total citations count: Scopus – 261 (h-index: 8), Google Scholar – 442.

Citations by various: authors: 20+, countries: 20+, universities: 20+ (source: ResearcherID.com).

**78 citations:** BREST, Janez, ZAMUDA, Aleš, BOŠKOVIĆ, Borko, SEPESY MAUČEC, Mirjam, ŽUMER, Viljem. Dynamic optimization using self-adaptive differential evolution. In: *2009 IEEE Congress on Evolutionary Computation, IEEE CEC 2009, 18th to 21st May 2009, Trondheim, Norway: programme & abstracts*. Piscataway: IEEE, 2009, pp. 415-422.

**78 citations:** BREST, Janez, ZAMUDA, Aleš, BOŠKOVIĆ, Borko, SEPESY MAUČEC, Mirjam, ŽUMER, Viljem. High-dimensional real-parameter optimization using self-adaptive differential evolution algorithm with population size reduction. In: *IEEE World Congress on Computational Intelligence, Hong Kong, June 1-6, 2008. WCCI 2008 Proceedings*. [S. l.]: IEEE, 2008, pp. 2032-2039.

**59 citations:** ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Large scale global optimization using differential evolution with self-adaptation and cooperative co-evolution. In: *IEEE World Congress on Computational Intelligence, Hong Kong, June 1-6, 2008. WCCI 2008 Proceedings*. [S. l.]: IEEE, 2008, pp. 3719-3726.

**50 citations:** ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Differential evolution for multiobjective optimization with self adaptation. In: *CEC 2007: 2007 Congress on Evolutionary Computation: 25-28 September 2007, Singapore*. Piscataway: Institute of Electrical and Electronics Engineers, 2007, pp. 3617-3624.

**43 citations:** ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Differential evolution with self-adaptation and local search for constrained multiobjective optimization. In: *2009 IEEE Congress on Evolutionary Computation, IEEE CEC 2009, 18th to 21st May 2009, Trondheim, Norway: programme & abstracts*. Piscataway: IEEE, 2009, pp. 195-202.

**17 citations:** BREST, Janez, ZAMUDA, Aleš, BOŠKOVIĆ, Borko, GREINER, Sašo, ŽUMER, Viljem. An analysis of the control parameters' adaptation in DE. In: *Advances in differential evolution*, (Studies in computational intelligence, Vol. 143). Berlin; Heidelberg: Springer, 2008, pp. 89-110.

**16 citations:** BREST, Janez, KOROŠEC, Peter, ŠILC, Jurij, ZAMUDA, Aleš, BOŠKOVIĆ, Borko, SEPESY MAUČEC, Mirjam. Differential evolution and differential ant-stigmergy on dynamic optimisation problems, *International Journal of Systems Science* 44(4): 663–679.

**16 citations:** ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Differential evolution for parameterized procedural woody plant models reconstruction, *Applied Soft Computing* 11(8): 4904–4912.

**15 citations:** BREST, Janez, ZAMUDA, Aleš, FISTER, Iztok, SEPESY MAUČEC, Mirjam. Large scale global optimization using self-adaptive differential evolution algorithm. In: *2010 IEEE Congress on Evolutionary Computation, IEEE CEC 2010, 18-23 July 2010, Barcelona, Spain*. Piscataway: IEEE, 2010, pp. 3097–3104.

**15 citations:** BOŠKOVIĆ, Borko, BREST, Janez, ZAMUDA, Aleš, ŽUMER, Viljem. History mechanism supported differential evolution for chess evaluation function tuning, *Soft Computing* 15(4): 667–683.

**13 citations:** ZAMUDA, Aleš, BREST, Janez. Population reduction differential evolution with multiple mutation strategies in real world industry challenges. In: *Artificial Intelligence and Soft Computing – ICAISC 2012, Zakopane, Poland, 2012, vol. 7269/2012, pp. 154-161*.

## International Competitions and Awards

1. Biography listing in Marquis Who's Who in the World 2013 and 2014,
2. Gold medal from Seoul Invention Fair – SIIF 2012 for interactive tree modeling and evolution,
3. ECiDUE at congress IEEE CEC 2009 (Trondheim, Norway): 1<sup>st</sup> place (2<sup>nd</sup> author),
4. LSGO at congress IEEE WCCI CEC 2008 (Hong Kong, China): 6<sup>th</sup> place (1<sup>st</sup> author),
5. MOEA at congress IEEE CEC 2007 (Singapore): 3<sup>rd</sup> place (1<sup>st</sup> author), and
6. IEEE Region 8 (Europe, Africa, Middle East) Student Paper Contest at conference EUROCON 2007 (Warsaw, Poland): 2<sup>nd</sup> place (1<sup>st</sup> author).

## National Competitions and Awards

1. University of Maribor award for research work (2013), Andrej Perlach's award for research work (2008) and three faculty awards for research work (2006, 2007, 2008),
2. memorial gift of Slovene Secretary of State for Ministry of Higher Education, Science, and Technology for visible results on international competitions in computer science, at reception for students, university and faculty leaders, and public research institutions (2007),
3. victory at competition of student papers at IEEE ERK, Portorose (2006)
4. first award and golden plaque at competition for most inventive and business oriented project Eureka! mladi (2008),
5. first award in national secondary school programming (2001),
6. two titles of elementary school national champion in programming (1995, 1997),
7. national champion in text formatting with Word (1997) and won 5<sup>th</sup> place at competition in using of program CorelDraw (1997),
8. in elementary school: two golden awards for chemistry (1996, 1997) and silver for mathematics (1997),
9. entry to golden book of Primary school Velika Nedelja (1997), admittance as talented scholar at mayor of Občina Ormož (1997) and mayor of Municipality Ptuj (2001),
10. website construction which won 1st place at competition of all Slovenian primary and middle schools (1996).

## Computer Science Training Before Faculty Studies, Autodidacticism

1. Seminar of programming language Java at UM FERI (1999),
2. two week international camp of computer science in Zadar, Croatia (1997): dynamic programming in Pascal, OpenGL and Unix BASH, and
3. one week summer school of computer science at SERS, Maribor (1995),
4. one week summer school of programming with Sinel in Bohinj (1994),
5. in primary school, autodidactical programming of own computer games with 2D graphics, sound, and artificial intelligence; and rapid application development IDE tools: Turbo Pascal 7.0 environment (licensed as an award at national computer science competition, 1994).
6. autodidacticism during and after faculty studies: visiting hundreds of events on technology

# Annex 1 - Full bibliography (source: COBISS)

## ARTICLES AND OTHER COMPONENT PARTS

### 1.01 Original scientific article

1. ZAMUDA, Aleš, HERNÁNDEZ SOSA, José Daniel. Differential evolution and underwater glider path planning applied to the short-term opportunistic sampling of dynamic mesoscale ocean structures. *Applied soft computing*, ISSN 1568-4946, Nov. 2014, vol. 24, str. 95-108, DOI: 10.1016/j.asoc.2014.06.048. COBISS.SI-ID 17953046]
2. ZAMUDA, Aleš, BREST, Janez. Vectorized procedural models for animated trees reconstruction using differential evolution. *Information sciences*, ISSN 0020-0255. [Print ed.], Sep. 2014, vol. 278, str. 1-21, DOI: 10.1016/j.ins.2014.04.037. COBISS.SI-ID 17793558]
3. ZAMUDA, Aleš, BREST, Janez. Environmental framework to visualize emergent artificial forest ecosystems. *Information sciences*, ISSN 0020-0255. [Print ed.], Jan. 2013, vol. 220, str. 522-540, DOI: 10.1016/j.ins.2012.07.031. COBISS.SI-ID 16157206]
4. BREST, Janez, KOROŠEC, Peter, ŠILC, Jurij, ZAMUDA, Aleš, BOŠKOVIĆ, Borko, SEPESY MAUČEC, Mirjam. Differential evolution and differential ant-stigmergy on dynamic optimisation problems. *International Journal of Systems Science*, ISSN 0020-7721, 2013, vol. 44, no. 4, str. 663-679, DOI: 10.1080/00207721.2011.617899. COBISS.SI-ID 15354390]
5. ZAMUDA, Aleš, BREST, Janez. Population reduction differential evolution with multiple mutation strategies in real world industry challenges. *Lect. notes comput. sci.*, pp. 154-161, ilupp. COBISS.SI-ID 15979542]
6. ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Differential evolution for parameterized procedural woody plant models reconstruction. *Applied soft computing*, 2011, vol. 11, iss. 8, pp. 4904-4912, DOI: 10.1016/j.asoc.2011.06.009. COBISS.SI-ID 15175446]
7. BOŠKOVIĆ, Borko, BREST, Janez, ZAMUDA, Aleš, GREINER, Sašo, ŽUMER, Viljem. History mechanism supported differential evolution for chess evaluation function tuning. *Soft computing*. [Tiskana izd.], 2011, vol. 15, no. 4, pp. 667-683, DOI: 10.1007/s00500-010-0593-z. COBISS.SI-ID 13985046]
8. BREST, Janez, ZAMUDA, Aleš, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Globalna optimizacija problemov z velikim številom dimenzij. *Electrotechnical Review*. [Slovene], 2008, vol. 75, nr. 5, pp. 299-304. COBISS.SI-ID 13038614]
9. ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Študija samoprilaganja krmilnih parametrov pri algoritmu DEMOwSA. *Electrotechnical Review*. [Slovene], 2008, vol. 75, nr. 4, pp. 223-228. COBISS.SI-ID 12933654]

### 1.08 Published scientific conference contribution

10. ZAMUDA, Aleš, BREST, Janez, MEZURA-MONTES, Efrén. Structured population size reduction differential evolution with multiple mutation strategies on CEC 2013 real parameter optimization. V: [2013 IEEE CEC], June 20-23, 2013, Cancun, Mexico. *IEEE Congress on Evolutionary Computation*. [S. l.]: IEEE, cop. 2013, str. 1925-1931. COBISS.SI-ID 17008150]
11. BREST, Janez, BOŠKOVIĆ, Borko, ZAMUDA, Aleš, FISTER, Iztok, MEZURA-MONTES,

- Efrén. Real parameter single objective optimization using self-adaptive differential evolution algorithm with more strategies. V: [2013 IEEE CEC], June 20-23, 2013, Cancun, Mexico. *IEEE Congress on Evolutionary Computation*. [S. l.]: IEEE, cop. 2013, str. 377-383. COBISS.SI-ID 17007126]
12. ZAMUDA, Aleš, BREST, Janez. Tree model reconstruction innovization using multi-objective differential evolution. V: IEEE World Congress on Computational Intelligence, Brisbane, Australia. *IEEE WCCI 2012*. [S. l.: IEEE, 2012], IEEE CEC, pp. 575-582. COBISS.SI-ID 16116758]
13. BREST, Janez, BOŠKOVIĆ, Borko, ZAMUDA, Aleš, FISTER, Iztok, SEPESY MAUČEC, Mirjam. Self-adaptive differential evolution algorithm with a small and varying population size. V: IEEE World Congress on Computational Intelligence, Brisbane, Australia. *IEEE WCCI 2012*. [S. l.: IEEE, 2012], IEEE CEC, pp. 2827-2834. COBISS.SI-ID 16116502]
14. BREST, Janez, ZAMUDA, Aleš, FISTER, Iztok, BOŠKOVIĆ, Borko, SEPESY MAUČEC, Mirjam. Constrained real-parameter optimization using a differential evolution algorithm. V: *IEEE SSCI2011 symposium series on computational intelligence: proceedings*. Piscataway: IEEE, cop. 2011, pp. 9-16. COBISS.SI-ID 14952214]
15. ZAMUDA, Aleš. Diferencialna evolucija realnih industrijskih izzivov CEC 2011 = Differential evolution of RealWorld industry challenges CEC 2011. V: ZAJC, Baldomir (ur.), TROST, Andrej (ur.). *Zbornik dvajsete mednarodne Elektrotehniške in računalniške konference ERK 2011, 19.-21. september 2011, Portorož, Slovenija*, (Zbornik ... Elektrotehniške in računalniške konference ERK ...). Ljubljana: IEEE Region 8, Slovenska sekcija IEEE, 2011, zv. B, pp. 185-188. COBISS.SI-ID 15361302]
16. ZAMUDA, Aleš, ČEP, Aleš, BREST, Janez. Optimizacija medatomskega energijskega potenciala Lennard-Jones z diferencialno evolucijo na arhitekturi CUDA = Interatomic Lennard-Jones potential energy optimization using differential evolution on CUDA architecture. V: ZAJC, Baldomir (ur.), TROST, Andrej (ur.). *Zbornik dvajsete mednarodne Elektrotehniške in računalniške konference ERK 2011, 19.-21. september 2011, Portorož, Slovenija*, (Zbornik ... Elektrotehniške in računalniške konference ERK ...). Ljubljana: IEEE Region 8, Slovenska sekcija IEEE, 2011, zv. B, pp. 197-200. COBISS.SI-ID 15362582]
17. ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Woody plants model recognition by differential evolution. V: FILIPIČ, Bogdan (ur.), ŠILC, Jurij (ur.). *Bioinspired optimization methods and their applications: proceedings of the Fourth International Conference on Bioinspired Optimization Methods and their Applications, BIOMA 2010, 20-21 May 2010, Ljubljana, Slovenia*. Ljubljana: Jožef Stefan Institute, 2010, pp. 205-215. COBISS.SI-ID 14126102]
18. BREST, Janez, ZAMUDA, Aleš, FISTER, Iztok, SEPESY MAUČEC, Mirjam. Large scale global optimization using self-adaptive differential evolution algorithm. V: IEEE World Congress on Computational Intelligence, Barcelona, July 18-23, 2010. *WCCI 2010 Proceedings*. [S. l.]: IEEE, cop. 2010, cEC IEEE, pp. 3097-3104. COBISS.SI-ID 14281238]
19. ZAMUDA, Aleš, BREST, Janez. Večkriterijska rekonstrukcija numerično kodiranih proceduralnih modelov dreves z diferencialno evolucijo. V: ZAJC, Baldomir (ur.), TROST, Andrej (ur.). *Zbornik devetnajste mednarodne Elektrotehniške in računalniške konference ERK 2010, Portorož, Slovenija, 20.-22. september 2010*, (Zbornik ... Elektrotehniške in računalniške konference ERK ...). Ljubljana: IEEE Region 8, Slovenska sekcija IEEE, 2010, zv. B, pp. 169-172.

COBISS.SI-ID 14408726]

- 20.** ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Differential evolution with self-adaptation and local search for constrained multiobjective optimization. V: *2009 IEEE Congress on Evolutionary Computation, IEEE CEC 2009, 18th to 21st May 2009, Trondheim, Norway: programme & abstracts*. Piscataway: IEEE, 2009, pp. 195-202. COBISS.SI-ID 13217558]
- 21.** BREST, Janez, ZAMUDA, Aleš, BOŠKOVIĆ, Borko, SEPESY MAUČEC, Mirjam, ŽUMER, Viljem. Dynamic optimization using self-adaptive differential evolution. V: *2009 IEEE Congress on Evolutionary Computation, IEEE CEC 2009, 18th to 21st May 2009, Trondheim, Norway: programme & abstracts*. Piscataway: IEEE, 2009, pp. 415-422. COBISS.SI-ID 13217814]
- 22.** ZAMUDA, Aleš, BREST, Janez, ŽUMER, Viljem. Razpoznavna numerično kodiranih proceduralnih modelov iz slik naravnih dreves z uporabo diferencialne evolucije. V: ZAJC, Baldomir (ur.), TROST, Andrej (ur.). *Zbornik Osemnajste mednarodne elektrotehniške in računalniške konference - ERK 2009, 21-23. september 2009, Portorož, Slovenija*. Ljubljana: IEEE Region 8, Slovenska sekcija IEEE, 2009, zv. B, pp. 171-174, ilupp. COBISS.SI-ID 13463318]
- 23.** BREST, Janez, ZAMUDA, Aleš, BOŠKOVIĆ, Borko, GREINER, Sašo, SEPESY MAUČEC, Mirjam, ŽUMER, Viljem. Self-adaptive differential evolution with SQP local search. V: FILIPIČ, Bogdan (ur.), ŠILC, Jurij (ur.). *Bioinspired optimization methods and their applications: proceedings of the Third International Conference on Bioinspired Optimization Methods and their Applications, BIOMA 2008, 13-14 October 2008, Ljubljana, Slovenia*. Ljubljana: Jožef Stefan Institute, 2008, pp. 59-69. COBISS.SI-ID 12707862]
- 24.** BREST, Janez, ZAMUDA, Aleš, BOŠKOVIĆ, Borko, SEPESY MAUČEC, Mirjam, ŽUMER, Viljem. High-dimensional real-parameter optimization using self-adaptive differential evolution algorithm with population size reduction. V: *IEEE World Congress on Computational Intelligence, Hong Kong, June 1-6, 2008. WCCI 2008 Proceedings*. [S. l.]: IEEE, 2008, pp. 2032-2039. COBISS.SI-ID 12328982]
- 25.** ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Large scale global optimization using differential evolution with self-adaptation and cooperative co-evolution. V: *IEEE World Congress on Computational Intelligence, Hong Kong, June 1-6, 2008. WCCI 2008 Proceedings*. [S. l.]: IEEE, 2008, pp. 3719-3726. COBISS.SI-ID 12329238]
- 26.** ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Diferencialna evolucija za večkriterijsko optimizacijo s samoprilagajanjem in z lokalnim preiskovanjem SQP. V: ZAJC, Baldomir (ur.), TROST, Andrej (ur.). *Zbornik sedemnajste mednarodne Elektrotehniške in računalniške konference ERK 2008, 29. september - 1. oktober 2008, Portorož, Slovenija*, (Zbornik ... Elektrotehniške in računalniške konference ERK ...). Ljubljana: IEEE Region 8, Slovenska sekcija IEEE, 2008, zv. B, pp. 103-106. COBISS.SI-ID 12695574]
- 27.** BOŠKOVIĆ, Borko, BREST, Janez, ZAMUDA, Aleš, ŽUMER, Viljem. Ratingiranje pri uglaševanju šahovskega programa z algoritmom diferencialne evolucije. V: ZAJC, Baldomir (ur.), TROST, Andrej (ur.). *Zbornik sedemnajste mednarodne Elektrotehniške in računalniške konference ERK 2008, 29. september - 1. oktober 2008, Portorož, Slovenija*, (Zbornik ... Elektrotehniške in računalniške konference ERK ...). Ljubljana: IEEE Region 8, Slovenska sekcija IEEE, 2008, zv. B, pp. 123-126. COBISS.SI-ID 12695830]
- 28.** ZAMUDA, Aleš, BREST, Janez, BOŠKOVIĆ, Borko, ŽUMER, Viljem. Differential evolution for multiobjective optimization with self adaptation. V: *CEC 2007: 2007 Congress on*



*Evolutionary Computation: 25-28 September 2007, Singapore*. Piscataway: Institute of Electrical and Electronics Engineers, 2007, pp. 3617-3624. COBISS.SI-ID 11730710]

**29.** ZAMUDA, Aleš, BREST, Janez, GUID, Nikola, ŽUMER, Viljem. Modelling, simulation and visualisation of forest ecosystems. V: The International Conference on Computer as a tool, Warsaw, Poland, September 9-12, 2007. *Region 8 Eurocon 2007: proceedings*. Piscataway, NJ: IEEE Service Center, [2007], pp. 2600-2606. COBISS.SI-ID 11643926]

**30.** BOŠKOVIĆ, Borko, BREST, Janez, ZAMUDA, Aleš, ŽUMER, Viljem. Uglaševanje šahovskega programa BBChess z uporabo algoritma diferencialne evolucije. V: ZAJC, Baldomir (ur.), TROST, Andrej (ur.). *Zbornik Šestnajste mednarodne Elektrotehniške in računalniške konference ERK 2007, 24. -26. september 2007, Portorož, Slovenija*. Ljubljana: IEEE Region 8, Slovenska sekcija IEEE, 2007, zv. B, pp. 73-76. COBISS.SI-ID 11760662]

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