

Curriculum Vitae

Name: Peter
Surname: Korošec
Home address:
Ljubljanska cesta 4d
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Email: Peter.Korosec@ijs.si
Born: 21st January 1977
Marital status: not married



Education:

1995 Finished secondary school at the Gimnazija Vič.
1995 Became a first-year student at the Faculty of Computer and Information Science.
2001 Graduated from Computer and Information Science.
2001 Registered for post-graduate study (Computer and Information Science).
2004 Obtained Master of Science degree from Computer and Information Science.
2004 Registered for post-graduate study (PhD) at the Jožef Stefan International Postgraduate School.
2006 Obtained PhD degree.
2007 Obtained title of Assistant Professor of Computer and Information Science at the University of Primorska.
2012 Obtained title of Associate Professor of Computer and Information Science at the University of Primorska.

Current research areas:

- modern metaheuristics,
- numerical/combinatorial optimization and
- parallel/distributed computing.

Experiences:

1995-2001 Occasional jobs like: giving private tuition to secondary students in math, working as a computer administrator and programmer.
1997-2001 Received scholarship from the Jožef Stefan Institute.
2002- Became an employee at the Jožef Stefan Institute, Jamova cesta 39, SI-1000 Ljubljana, Slovenia, as a young researcher.
2002- Attended many conferences, where I presented my work (research studies) and published many original scientific articles. [more information can be found at <http://cs.ijs.si/korosec/>]
2004-2006 Students' representative at the Jožef Stefan International Postgraduate School Senate.

- 2005- Reviewer for many international journals (e.g., Engineering Applications of Artificial Intelligence, Applied Soft Computing, Information Sciences, ...).
- 2006- Lead or participated in 13 national/industrial projects and one international project.
- 2007- Became a part time employee at the University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies Koper (two courses that I teach: Systems I – Hardware and Metaheuristic Optimization Algorithms).
- 2008- Member of program and organizing committee of biennial International Conference “Bioinspired Optimization Methods and their Applications”.
- 2008 Stationed as a visiting researcher at the University of Salzburg, Department of Computer Sciences, Salzburg, Austria.
- 2009- Mentor at three bachelor-level theses for 1st Bologna Level, one master-level thesis for 2nd Bologna Level and one PhD dissertation, which is still in progress.
- 2012 Evaluator of research project proposals for Latvian Science Council.

Awards:

- 2007 The **Trimo Research Award** for the Doctoral Dissertation at the 6th Trimo Research Awards.
- 2008 The **Jožef Stefan Golden Emblem Prize** for the most outstanding contributions made to science in the Doctoral Dissertation in the field of natural sciences in Slovenia.

Skills: effective team player, programming in different computer languages (Java, Pascal, C, C++, Php, OpenCl, Html, SQL, etc.), computer administration, and extensive knowledge on current computer technology.

Hobbies: motorbike riding, fitness, basketball, swimming, skiing, table tennis, and dogs.

Languages: Slovenian, English, and German (intermediate).

References:

Assist. Prof. Dr. Jurij Šilc, Jožef Stefan Institute, Computer Systems Department, Jamova cesta 39, SI-1000 Ljubljana, Slovenia, email: Jurij.Silc@ijs.si (work tutor and now colleague at the Jožef Stefan Institute)

Assist. Prof. Dr. Janez Žibert, University of Primorska, Faculty of Mathematics, Science and Information Technologies Koper, Glagoljaška 8, SI-6000 Koper, Slovenia, email: Janez.Zibert@upr.si (head of Information Sciences and Technologies department)

Prof. Dr. Marian Vajteršič, University of Salzburg, Department of Computer Sciences, Salzburg, Austria, email: Marian@cosy.sbg.ac.at (advisor, when I was a visiting researcher)

Bibliography (-2012):

Selected publications

1. Peter Korošec, Jurij Šilc, Bogdan Filipič, "The differential ant-stigmergy algorithm", *Inf. sci.*, vol. 192, no. 1, pp. 82-97, 2012, doi: [10.1016/j.ins.2010.05.002](https://doi.org/10.1016/j.ins.2010.05.002).
2. Peter Korošec, Marian Vajteršič, Jurij Šilc, Rade Kutil, "Multi-core implementation of the differential ant-stigmergy algorithm for numerical optimization", *J. supercomput.*, 16 pp., [in press] 2012, doi: [10.1007/s11227-012-0772-z](https://doi.org/10.1007/s11227-012-0772-z).
3. Gregor Papa, Vida Vukašinović, Peter Korošec, "Guided restarting local search for production planning", *Eng. appl. artif. intell.*, vol. 25, no. 2, pp. 242-253, 2012, doi: [10.1016/j.engappai.2011.07.001](https://doi.org/10.1016/j.engappai.2011.07.001).
4. Katerina Taškova, Peter Korošec, Jurij Šilc, Ljupčo Todorovski, Sašo Džeroski, "Parameter estimation with bio-inspired meta-heuristic optimization : modeling the dynamics of endocytosis", *BMC systems biology*, vol. 5, pp. 159-1-159-52, 2011, <http://www.biomedcentral.com/content/pdf/1752-0509-5-159.pdf>, doi: [10.1186/1752-0509-5-159](https://doi.org/10.1186/1752-0509-5-159).
5. Janez Brest, Peter Korošec, Jurij Šilc, Aleš Zamuda, Borko Bošković, Mirjam Sepesy Maučec, "Differential evolution and differential ant-stigmergy on dynamic optimisation problems", *Int. J. Syst. Sci.*, [17] pp., Available online: 26 Sep 2011, doi: [10.1080/00207721.2011.617899](https://doi.org/10.1080/00207721.2011.617899).
6. Peter Korošec, Jurij Šilc, "Using stigmergy to solve numerical optimization problems", *Comput. inform.*, vol. 27, no. 3, pp. 377-402, 2008.
7. Peter Korošec, Jurij Šilc, "The distributed multilevel ant-stigmergy algorithm used at the electric-motor design", *Eng. appl. artif. intell.*, vol. 21, no. 6, pp. 941-951, 2008.
8. Tea Tušar, Peter Korošec, Gregor Papa, Bogdan Filipič, Jurij Šilc, "A comparative study of stochastic optimization methods in electric motor design", *Appl. intell. (Boston)*, vol. 27, no. 2, pp. 101-111, 2007, <http://springerlink.metapress.com/content/y3512xg1q3pjq687/fulltext.pdf>.
9. Klemen Oblak, Peter Korošec, Franc Kosel, Jurij Šilc, "Multi-parameter numerical optimization of selected thin-walled machine elements using a stigmergic optimization algorithm", *Thin-walled struct.*, vol. 45, no. 12, pp. 991-1001, 2007, <http://dx.doi.org/10.1016/j.tws.2007.07.006>.
10. Peter Korošec, *Stigmergy as an approach to metaheuristic optimization: doctoral dissertation*, Ljubljana, [P. Korošec], 2006.
11. Robič Borut, Korošec Peter, Šilc Jurij. Ant colonies and the mesh-partitioning problem. Olariu Stephan (ed.), Zomaya Albert Y. (ed.). Handbook of bioinspired algorithms and applications, (Chapman & Hall/CRC computer and information science series). Boca Raton; London; New York: Chapman & Hall/CRC, 2006, pp. 285-303.
12. Korošec Peter, Šilc Jurij, Robič Borut. Solving the mesh-partitioning problem with an ant-colony algorithm. *Parallel computing*, 2004, vol. 30, pp. 785-801.