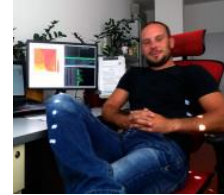


Gregor Kosec

Curriculum vitae

• BASIC INFO

DATE/PLACE OF BIRTH: 25.11.1980, Ljubljana, Slovenia
PERMANENT ADDRESS: Kleče 14, Ljubljana, Slovenia
MAIL: gregor.kosec@ijs.si,
PERSONAL PAGE: <http://comms.ijs.si/~gkosec/>
RESEARCH GATE PROFILE: https://www.researchgate.net/profile/Gregor_Kosec
GOOGLE SCHOLAR PROFILE: <http://scholar.google.si/citations?user=Obn5FmoAAAAJs>



• EDUCATION

2011 **Ph.D.**: University of Nova Gorica, Graduate school, thesis:: Local Meshless Method For Multi-Phase Thermo-Fluid Problems
2006 **BS.c**: University of Ljubljana, Faculty of Mathematics and Physics
1999 **Matura**: School of Electrical and Computer Engineering Ljubljana

• EMPLOYMENT

2011- Jožef Stefan Institute :: **Parallel and distributed systems Laboratory** (research associate)
2006-2011 University of Nova Gorica :: **Laboratory for Multi-Phase Processes** (junior researcher / teaching assistant)

• VISITING RESEARCHER

2013-2014 Faculty of Computer Science and Engineering (FCSE), University "Ss. Cyril and Methodius", Skopje, Macedonia, dr. Ivica Dimitrovski and dr. Suzana Loskovska
2010, 2011 Institut Jean Lamour, Ecole des Mines de Nancy, France, Dr. Herve Combeau
2010 Faculty of Mechanical Engineering, University of Podgorica, Montenegro, Dr. Igor Vušanovič
2009 FAST, Heat & Mass Transfer and Fluid Flow group, Orsay, France, Dr. Dominique Gobin

• REWARDS

2017 State award, **The Puh Certificate of Recognition**
2014 Emerald's awards for excellence, **Engineering Outstanding Doctoral Research**
2013 Emerald's awards for excellence, **Outstanding paper** :: Solution of a low Prandtl number natural convection benchmark by a local meshless method
2010 Slovene human resources development and scholarship fund, **Reward for exceptional contribution to the sustainable development**
2009 Emerald's awards for excellence, **Highly recommended paper** :: Solution of thermo-fluid problems by collocation with local pressure correction
2009 World Federation of Scientists, **National Scholarship**

• COORDINATION AND IMPLEMENTATION OF APPLIED PROJECTS

2017 **Cooling of overhead power lines in low wind regimes**, ELES, Ltd., Electricity Transmission System

	Operator
2016	Dynamic Thermal Rating of Overhead Lines , TETRACOM - Technology Transfer in Computing Systems - ELES, Ltd., Electricity Transmission System Operator
2015	Analysis of de-icing possibilities by operational countermeasures , ELES, Ltd., Electricity Transmission System Operator
2012	Parallelization of North Atlantic Princeton Ocean Model , Marine Biology Station, National Institute for Biology.

• **PARTICIPATION IN OTHER PROJECTS**

2017-2018	EIMV ; Development and implementation of Dynamic Thermal Model for power transformers.
2016-	FWO ; Multi-analysis of fretting fatigue using physical and virtual experiments.
2015	TT ; System for mobile monitoring of vital physiological parameters and environmental context
2014-2015	Oleum trading systems ; Development and implementation of algorithms for time series analysis.
2012-2014	HiPEAC ; European Network on High Performance and Embedded Architecture and Compilation
2012-2013	BI-ME/012-13-005 ; Cellular and final automata for pattern recognition
2012-2013	BI-HR/12-13-044 ; Optimization of energy consumption in computer systems

• **PARTICIPATION IN ORGANIZATION OF EVENTS**

2015	4th International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering, Dubrovnik, Croatia
2014	17th International Conference on Fluid Mechanics, Heat Transfer and Thermodynamics, Barcelona, Spain
2014	European Network of Excellence on High Performance and Embedded Architecture and Compilation Workshop, Ljubljana, Slovenia
2009	DC VIS / Distributed Computing, Visualization and Biomedical Engineering – MIPRO, 2014, Opatija, Croatia
2012-2013	5th ICCES Special Symposium on Meshless & Other Novel Computational Methods, 2009, Bistra, Slovenia

• **PEDAGOGIC WORK**

2017-	PhD adviser at Jožef Stefan International Postgraduate School and Faculty of Mathematics and Physics, Ljubljana
2015-2017	Advising masters' students from Faculty of Mathematics and Physics at University of Ljubljana
2006-2011	Teaching assistant for Physics/Thermodynamics at University of Nova Gorica

• **RESEARCH EXPERIENCES**

Development and analysis of local meshless numerical method for solving partial differential equations
Generic implementation of numerical solvers and execution on different computer architectures
Numerical optimization
Laboratory experiments in geophysical fluid dynamics

• **PUBLICATIONS**

25 peer reviewed articles (9 in Q1 journals,)	h-index 8
25 papers in conference proceedings	250 citations
4 book chapters	
1 scientific monograph (Springer)	

• SELECTED PUBLICATIONS

KOSEC, Gregor, MAKSIĆ, Miloš, DJURICA, Vladimir. Dynamic thermal rating of power lines : model and measurements in rainy conditions. International journal of electrical power & energy systems, ISSN 0142-0615., **2017**, vol. 91, pp. 222-229.

KOSEC, Gregor. A local numerical solution of a fluid-flow problem on an irregular domain. Advances in engineering software, **2016**, ISSN 0965-9978, vol. 5, pp. 329-336.

KOSEC, Gregor, TROBEC, Roman, Simulation of Semiconductors Devices with a Local Numerical Approach, Engineering analysis with boundary elements , **2015**, vol. 50, pp 69-75.

KOSEC, Gregor, DEPOLLI, Matjaž, RASHKOVSKA, Aleksandra, TROBEC, Roman. Super linear speedup in a local parallel meshless solution of thermo-fluid problem. Computers & Structures, **2014**, vol. 133, pp. 30-38.

KOSEC, Gregor, ZINTERHOF, Peter. Local strong form meshless method on multiple Graphics Processing Units.Comput. model. eng. sci., **2013**, vol. 91, no. 5, pp. 377-396.

KOSEC, Gregor, ŠARLER, Božidar. Local RBF collocation method for Darcy flow. CMES, **2008**, vol. 25, pp.197

• REWIEVER FOR

Applied Mathematical Modelling

U.S. Department of Energy

Applied Mathematics And Computation

Engineering Analysis With Boundary Elements

International Journal of Heat and Mass Transfer

Water Resources

Ain Shams Engineering Journal

Progress in Computational Fluid Dynamics

Scalable Computing: Practice and Experience

International Journal of Computer Mathematics

• DESCRIPTIVE CV

Gregor Kosec graduated at University of Ljubljana, Faculty of Mathematics and Physics in 2006 and obtained Ph.D. in 2011 at University of Nova Gorica. In 2011 he became a member of Parallel and Distributed Systems Laboratory at Jožef Stefan Institute. His main research interest covers physical modelling, computational physics, meshless methods, and generic programming.

In cooperation with colleagues he published 25 peer reviewed original scientific papers, a scientific monograph in Springer, 4 book chapters, and presented his work at 25 international conferences. He was awarded with 4 international rewards and 2 domestic rewards, namely with reward for exceptional contribution to the sustainable development and with Puh Certificate of Recognition. He is an active reviewer for several international scientific journals and is also active in organization of international conferences.

In 2015 he led applied project "Analysis of de-icing by operational countermeasures" for ELES, Ltd., Electricity Transmission System Operator, followed by project Dynamic Thermal Rating of overhead power lines in icing conditions (DTRi) funded by FP7 TETRACOM. In 2017 he led project "Cooling of overhead power lines in low wind regimes" again for ELES, Ltd.

From 2016 he is involved in FWO funded project "Multi-analysis of fretting fatigue using physical and virtual experiments" and in a technology transfer "System for mobile monitoring of vital physiological parameters and environmental context".

He is also advising masters' and Ph.D students from Faculty of Mathematics and Physics at University of Ljubljana.
