PERSONAL INFORMATION

Matjaž Depolli



21, Podpeč, Videm-Dobrepolje, SI-1312, Slovenija

- +386 1 477 3135
- matjaz.depolli@ijs.si
- http://e6.ijs.si/~matjaz/
- Skype matjazdepolli

Sex male | Date of birth 10/07/1980 | Nationality Slovenian

POSITION

Research assistant at Jožef Stefan Institute

WORK EXPERIENCE

November 2005 - Present

Research fellow

Jožef Stefan Institute, Jamova cesta 39, SI-1000 Ljubljana, Slovenija

- local computer cluster administration
- web page administration
- implementation of national and international research projects
- preparation of proposals for national and international research projects
- basic and applicative research in the area of computer science
- mentoring of students
- lead programmer of small team
- algorithm development
- laboratory demonstrator for industrial partners, students and pupils (1h/month)

Business or sector Research

November 2004 – October 2005

Technical collaborator

National and University Library, Turjaška 1, SI-1000 Ljubljana, Slovenija

informatics consultant for an international project

Business or sector Research

EDUCATION AND TRAINING

2010 Ph.D. EQF8

Jožef Stefan International Postgraduate School, Ljubljana, Slovenija

- data mining
- artificial intelligence
- computer graphics

2005

BS.C. in computer science

EQF 6

Faculty for computer and information science, University of Ljubljana, Slovenija

- informatics
- programming
- computer hardware

1999

Electronic technician with Matura

FOF 4

Middle school for electrotechnics and electronics, Ljubljana, Slovenija

- electronics
- electrotechnics

PERSONAL SKILLS

Curriculum Vitae Matjaž Depolli



Mother tongue(s)

Slovenian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C1	C1	C1
B2	B2	A2	B1	B1

English Croatian

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Common European Framework of Reference for Languages

Communication skills

- team work: while working in research I have always been involved in team work
- teaching: I have been actively involved in teaching computer skills throughout my life, I have also led a topic in a summer school for graduate students, composed of several talks and workshops, and several independent lectures for graduate students
- presenting: I have given countless presentation to various audience sizes up to fifty people, I
 am regularly presenting the laboratory work to children of primary and secondary schools

Organisational / managerial skills

- leadership of small teams: currently a lead programmer for a team of 4 people
- management of multiple students
- organisation of work on a shared computer system
- regular contributor in project work and also led some of the smaller projects

Job-related skills

- great programming skills: proficient in programming languages C, C++, Java, Matlab, bash scripts, python, and familiarity with Pascal, assembler, Fortran, Javascript
 - familiarity with content versioning systems, and working knowledge in the use of git
- basic skills in electronics, originating from middle school and a hobby of working with microcontrollers
- experience in microcontrollers used for small-scale projects
- versed in preparation of projects: I have contributed to or led several national and international research project proposals

Digital competence

SELF-ASSESSMENT						
Information processing	Communication	Content creation	Safety	Problem solving		
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user		

Levels: Basic user - Independent user - Proficient user Digital competences - Self-assessment grid

- fluent in office suites (Microsoft Office and LibreOffice)
- confident in photo editing software and vector drawing software
- good command of computer-aided design tools
- confident in administration of linux-based computers

Other skills

- hobby electronics
- amateur photography

Driving licence

В



ADDITIONAL INFORMATION

Selected publications

- Matjaž Depolli, Sandor Szabo, Bogdan Zavalnij. An improved maximum common induced subgraph solver. Match: communications in mathematical and in computer chemistry. 2020, 84(1), 7-28. ISSN 0340-6253
- Aleksandra Rashkovska, Matjaž Depolli, Ivan Tomašić, Viktor Avbelj, Roman Trobec. Medical-grade ECG sensor for long-term monitoring. Sensors. 2020, 20(6), 1-17. ISSN 1424-8220.
- Roman Trobec, Ivan Tomašić, Aleksandra Rashkovska, Matjaž Depolli and Viktor Avbelj. Body sensors and electrocardiography. Springer Briefs in applied sciences and technology, 2018 ISBN 978-3-319-59338-8, ISBN 978-3-319-59340-1. ISSN 2191-530X.
- Matjaž Depolli and Gregor Kosec. Assessment of differential evolution for multi-objective optimization in a natural convection problem solved by a local meshless method. ISSN 0305-215X, Engineering optimization, 49(4):675-692, 2017.
- Gregor Kosec, Matjaž Depolli, Aleksandra Rashkovska, and Roman Trobec. Super linear speedup in a local parallel meshless solution of thermo-fluid problems. Computers & Structures, 133:30-38, 2014.
- Matjaž Depolli, Janez Konc, Kati Rozman, Roman Trobec, and Dušanka Janežič. Exact parallel maximum clique algorithm for general and protein graphs. Journal of chemical information and modeling, 53(9):2217-2228, 2013.
- Matjaž Depolli, Roman Trobec, and Bogdan Filipič. Asynchronous master-slave parallelization of differential evolution for multiobjective optimization. Evolutionary Computation, 21(2):261-291, 2013.
- Aleksandra Rashkovska, Roman Trobec, Matjaž Depolli, and Gregor Kosec. 3-D numerical simulation of heat transfer in biomedical applications. In Salim N. Kazi, editor, Heat Transfer Phenomena and Applications. InTech, 2012.
- Janez Konc, Matjaž Depolli, Roman Trobec, Kati Rozman, and Dušanka Janežič. Parallel-ProBiS: Fast parallel algorithm for local structural comparison of protein structures and binding sites. Journal of Computational Chemistry, 33(27):2199-2203, 2012.
- Roman Trobec and Matjaž Depolli. Simulated temperature distribution of the proximal forearm. Comput. Biol. Med., 41(10):971-979, October 2011.
- Bogdan Filipič and Matjaž Depolli. Parallel evolutionary computation framework for singleand multiobjective optimization. In Roman Trobec, Marián Vajteršic, and Peter Zinterhof, editors, Parallel Computing: numerics, applications, and trends, pages 217-240. Springer London, 2009.
- Matjaž Depolli, Viktor Avbelj, and Roman Trobec. Computer-simulated alternative modes of U-wave genesis. Journal of Cardiovascular Electrophysiology, 19(1):84-89, 2008.

Software projects

- Savvy sensor software: design of wireless protocols, programming
- MobECG Android application: principal designer, lead programmer

ANNEXES