

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name DELIPETREV BLAGOJ
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b.delipetrev@tudelft.nl
Nationality Macedonian
Date of birth 04.03.1980

WORK EXPERIENCE

- Dates (from – to) **2011-**
- Name of employer University Goce Delcev Stip
- Faculty Faculty of Computer Science and Faculty of Natural Sciences
- Occupation or position held Assistant Professor
- Main activities and responsibilities Lecturing courses: Advanced Algorithms, Software standards, Advanced distributed computer systems, Optimization and system control.
Research in the field of hydroinformatics, Cloud Computing, integrated water management, artificial intelligence and GIS;

- Dates (from – to) **2010-**
- Name of employer UNESCO-IHE Institute for water education
- Department Department of Integrated Water Systems and Governance
- Occupation or position held PhD Fellow from NUFFIC
- Main activities and responsibilities Research in integrated water management, GIS, optimization, modeling and lecturing.

- Dates (from – to) **2007-2011**
- Name of employer University Goce Delcev Stip
- Faculty Faculty of Computer Science and Faculty of Natural Sciences
- Occupation or position held Assistant
- Main activities and responsibilities Assistant lecturer on several subjects to students;

- Dates (from – to) **2006-2012**
- Company Delipetrov (www.delipetrov.com private company)
- Position CEO (owner)
- Main activities and responsibilities *Planning, strategy and management of the company.*

- Dates (from – to) **2006-2007**
- Name and address of employer University Ss Cyril and Methodius
- Faculty Faculty of Electrical Engineering and Information Technologies
- Occupation or position held Teaching assistant
- Main activities and responsibilities Teaching several subjects (Structural programming, Object- oriented programming, Algorithms and data structures)

- Dates (from – to) **2003-2006**
- Name and address of employer University Ss Cyril and Methodius
 - Faculty Faculty of Mining Geoscience and Technology
- Occupation or position held Teaching assistant
- Main activities and responsibilities Teaching several subjects (Geographic Information Systems, Mapinfo, programming language)

ACADEMICS EDUCATION

- Dates (from – to) **2010 –**
 - Name and type of organization providing education and training **ongoing second PhD**
 - UNESCO-IHE Institute for water education
 - TU Delft
 - Department Department of Integrated Water Systems and Governance
 - Principal subjects/occupational skills covered PhD thesis: Decision Support System for Water Resources Management: case study Bregalnica River Basin
 - Title of qualification awarded
 - Level in national classification (if appropriate)
-
- Dates (from – to) **2008 - 2011**
 - Name and type of organization providing education and training University Ss Cyril and Methodius
 - Faculty Faculty of Electrical Engineering and Information Technologies
 - Principal subjects/occupational skills covered PhD thesis: Model of the Hydro-information system of the Republic of Macedonia
 - Title of qualification awarded PhD in Computer Science
 - Level in national classification PhD (third cycle of studying) (if appropriate)
-
- Dates (from – to) **2004 - 2007**
 - Name and type of organization providing education and training University Ss Cyril and Methodius
 - Faculty Faculty of Electrical Engineering and Information Technologies
 - Principal subjects/occupational skills covered Master thesis: Geo-database model of the Republic of Macedonia
 - Title of qualification awarded Master of Science in the field of Information Technologies
 - Level in national classification Master of Science, M.Sc. (if appropriate)
-
- Dates (from – to) **1998 - 2003**
 - Name and type of organization providing education and training University Ss Cyril and Methodius
 - Faculty Faculty of Electrical Engineering and Information Technologies
 - Department Department computer technologies, informatics and automatics
 - Title of qualification awarded Engineering degree
 - Level in national classification Engineering degree, Dipl.-Ing. (if appropriate)

COURSES & TRAININGS

- Dates (from – to)
- Name and type of organization providing education and training
 - Course
- Title of qualification awarded
- Level in national classification (if appropriate)

20/04/2009 – 24/04/2009

UN-Water decade program for capacity development (UNW-DCP) and World Meteorological Organization (WMO)

East European training of trainees course on Climate and Water affairs

Certificate for successfully finished course.

Certificate

- Dates (from – to)
- Name and type of organization providing education and training
 - Course
- Title of qualification awarded
- Level in national classification (if appropriate)

13/10/2008 – 12/12/2008

Hydroaid

Post-graduate specialization course on "Management of water resources" - Management and Governance of the Integrated Water Service Cycle

Certificate for successfully finished course.

Diploma

- Dates (from – to)
- Name and type of organization providing education and training
 - Course
- Title of qualification awarded
- Level in national classification (if appropriate)

2003 – 2006

Joint European Tempus project "Geomagnetic measurement and quality standards"

Measurement of electromagnetic fields and quality standards

Certificate for successfully finished course. (in Macedonian)

Certificate (in Macedonian)

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

MACEDONIAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

excellent

excellent

excellent

- Reading skills
- Writing skills
- Verbal skills

SERBIAN, BULGARIAN, CROATIAN, BOSNIAN.

good

good

good

SCIENTIFICS INTERESTS

My scientific research is in the fields of machine learning, artificial intelligence, web GIS, optimization, control systems, cloud computing, web services, information system, hydroinformatics, modeling, integrated water management, smart cities and infrastructure.

TEACHING EXPERIENCE

Teaching and lecturing experience (more than 9 years) on University "Ss Cyril and Methodius" and University "Goce Delcev" on several subjects:

- Programming languages.
- Data structures and algorithms.
- Geographic Information Systems.
- Distributed Computer Systems.
- Web services and XML.
- Advanced algorithms.
- And others.

TECHNICAL SKILLS AND COMPETENCES

I'm programmer with extensive knowledge and experience in several programming languages including Java, C#, C, C++, PHP, Ajax, JavaScript. I have research and developed optimization prototype software in Java using Eclipse based on these algorithms:

- a) Dynamic programming
- b) Stochastic dynamic programming
- c) Reinforcement learning

The reinforcement learning module is the most developed using multiple agents and solving multi-objective optimization problems. In the solution additional algorithms are included like K-means, SIMPEX and others.

I have research and developed prototype application for water resources based on cloud computing, web services, SOA and Web GIS. The cloud application is composed of data repository built in Postgress and PostGis, Geoserver as middle tier application and prototype code in Ajax, Java, JavaScript, PHP, HTML and OpenLayers, JQuery libraries for the front end web services. The web services communications is in WFS-T, WFS, WMS (OGC standards) and XML. The prototype application URL is <http://delipetrov.mk/his/>

Other technical skills and competences include:

- C# programming in Visual studio;
- Developing maps and working in Mapinfo;
- Developing maps and working in ESRI products package: ArcGIS, ArcCatalog ect;
- Databases: PostgreSQL, MySQL, Microsoft SQL Server.
- Configuration of XEN Cloud Platform and virtual machines.

ORGANIZATIONAL SKILLS AND COMPETENCES

I was an owner and CEO of a startup company in Macedonia (<http://delipetrov.mk/>) that had 4 regular employees. Company "Delipetrov" was active from 2006 till 2012. My role was to organize and manage the company. The main business of the company was development of web solutions listed below and trade with computers and computer accessories. I had to close the company because of my new engagements.

I have lead several teams of students from the Faculty of Natural Sciences in development of various GIS projects (<http://delipetrov.mk/gisprojects.php>). The teams were varying in size from 5-10 students. My job was to coordinate activities, assign everyone a specific task and control the workflow of producing maps.

I was secretary of the tempus project "Geomagnetic measurement and quality standards" IB_JEP-17072-2002 from 2003-2006 and my responsibility was to coordinate and administrate the project together with the financial budget.

GRANTS AND SCHOLARSHIPS

2012-2013 Open Society Scholarship Programs
Global Supplementary Grant Program (GSGP) Europe

2010-2014 The Netherlands Fellowship Programme (NFP)
PhD studies at UNECO-IHE, Delft, the Netherlands

13/10/2008 – 12/12/2008 Italian government
HYDROAID Post-graduate specialization course on "Management of water resources" -
Management and Governance of the Integrated Water Service Cycle

MEMBERSHIPS

I'm IEEE member.

ARTISTIC SKILLS AND COMPETENCES

My passion is music. I have attended and finished in my youth (8 -15 years old) the musical primary school. My primary instrument is piano but I also love to play on a guitar. Unfortunately there is less and less free time to enjoy playing on these instruments.

DRIVING LICENSE(S)

Vehicle category: B

- BOOKS CHAPTER (2011) Co-author of the study for "Risk Mapping Methodology" developed for the Crisis Management Center of Macedonia, project of JICA (Japan International Cooperation Agency)
- JOURNAL PAPERS Delipetrov B., Mihajlov D., Delipetrov M., Delipetrov T. (2010) "Model of the Hydro-Information System of the Republic of Macedonia" *Journal of Computing and Information Technology CIT*, Vol 18, No 2, p.201-204
<http://cit.srce.unizg.hr/index.php/CIT/article/view/1804>
- Panovska S., Delipetrov T., Delipetrov M., Delipetrov B. (2008) "Analysis of geophysical models on the territory of the Republic of Macedonia", *Physica Macedonica*, Vol 57-58, p. 155-163
- Delipetrov B., Delipetrov M., Panovska S., Delipetrov T. (2007) "Basic model of the geodatabase of the Republic of Macedonia"; *Geologica Macedonica* v. 21, p. 63-67
- Delipetrov B., Panovska S., Delipetrov M., Dimov G. (2005) "Digital model of the Basic geological Map of the Republic of Macedonia" *Geologica Macedonica* v. 19
- CONFERENCES PROCEEDINGS AND PRESENTATIONS Delipetrov B. (2012) "Cloud Computing application for Water Resources Modeling and Optimization" YEARBOOK OF THE FACULTY OF COMPUTER SCIENCE Vol 1, No 1
<http://js.ugd.edu.mk/index.php/YFCS/article/view/19>
- Delipetrov B., Jonoski A., Solomatine D. (2012), "Cloud hydroinformation system and web services" UNESCO-IHE PhD Conference presentation, 1-3.10.2012, Delft, the Netherlands.
- Delipetrov B., Jonoski A., Solomatine D. (2012), "Development of a Cloud Application for supporting Water Resources Modeling" 10 International conference on Hydroinformatics, 14-18 July 2012, Hamburg, Germany.
- Delipetrov B., Delipetrov M. (2012), "Architecture of a prototype cloud application for a hydro-information system" SGEM International Geo-conference on Climate and Environment, 17 – 23 June 2012, Albena, Bulgaria.
<http://sgem.org/sgemlib/spip.php?article2128>
- Delipetrov B., Jonoski A., Solomatine D. (2012), "Cloud computing framework for a hydro information system" BALWOIS International conference on Water, Climate and Environment, 28 May – 2 June 2012, Ohrid, Republic of Macedonia.
<http://balwois.com/2012/USB/papers/548.pdf>
- Delipetrov B. (2011), "Architecture of a prototype cloud application for a hydro-information system", Young Scientist Workshop – International Water Week, 31.10 – 05.11.2011, Amsterdam, the Netherlands.
- Delipetrov B., Jonoski A., Solomatine D. (2011), "Architecture of a prototype cloud application for a hydro-information system" UNESCO-IHE PhD Conference presentation, 25-27.09.2011, Delft, the Netherlands.
- Delipetrov B. (2011), "Development of a prototype cloud application for a geodatabase" International NSDI conference – Impact of the NSDI Society, Challenges and Establishment, 19-21.09.2011, Skopje, Republic of Macedonia

Delipetrev B., Delipetrov T., Doneva B., Boskovski D. (2011) "GIS model of the basic geological map as a basis for a geodatabase of the Republic of Macedonia" Proceedings from 11th International Scientific Conference SGEM 2011 – Modern mine production, geology and environmental protection, 19-26 June Albena, Bulgaria

<http://sgem.org/sgemlib/spip.php?article230>

Delipetrov B. (2009) "Development of the Prototype Geodatabase GEO" International conference ICT-Innovations; 28-29 September 2009, Ohrid, Republic of Macedonia.

<http://eprints.ugd.edu.mk/4117/>

Delipetrov B., Mihajlov D., Delipetrov M. Delipetrov T. (2009) "Model of the Hydro-Information System of the Republic of Macedonia" Proceedings from 31th International Conference – Information Technology Interfaces 22-25 June Cafat/Dubrovnik, Croatia p.165-168

http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5196073&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D5196073

Delipetrov B., Mihajlov D., Delipetrov M. (2008) "Geo-database model of the Republic of Macedonia" Proceedings from 30th International Conference – Information Technology Interfaces 23-26 June Cafat/Dubrovnik, Croatia p.259-262

<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=4588418&contentType=Conference+Publications>

Delipetrov B., Mihajlov D., Delipetrov T. (2008) "Software implementation of the Geo-database model of the Republic of Macedonia" Proceedings from 8th International Scientific Conference SGEM 2008 – Modern mine production, geology and environmental protection, 16-20 June Albena, Bulgaria p.563-568

<http://www.sgem.org/SGEMLIB/spip.php?article1295>

Panovska S., Delipetrov M., Delipetrov T., Delipetrov B. (2008) "Models of the geomagnetic field of the territory of the Republic of Macedonia", Proceedings of the XIIIth IAGA Workshop on geomagnetic observatory instruments, data acquisition and processing, 9-18.06.2008, Golden, Colorado, USA, p.208-215

Delipetrov M., Delipetrov T., Panovska S., Delipetrov B. (2008) "Geomagnetic Measurements in 2004 in the Republic of Macedonia", Proceedings of the XIIIth IAGA Workshop on geomagnetic observatory instruments, data acquisition and processing, 9-18.06.2008, Golden, Colorado, USA, p.67-72

Delipetrov M., Panovska S., Delipetrov T., Doneva B., Delipetrov B. (2007) "Geomagnetic measurements of the net of repeat stations in the Republic of Macedonia", 3rd MagNetE Workshop on European Geomagnetic Repeat Station Survey, Bucharest, Romania

Panovska S., Delipetrov T., Delipetrov B., Delipetrov M., (2007) "Correlation between IGRF2000 Model and Measured Geomagnetic Data on the Territory of the Republic of Macedonia from Measurements in 2003 and 2004", PUBLS. INST. GEOPHYS. POL. ACAD. SC. , C-99 (398), p.229-235

Delipetrov M., Delipetrov T., Delipetrov B., Panovska S., (2007) "Geomagnetic data of the Republic of Macedonia obtained in 2004", PUBLS. INST. GEOPHYS. POL. ACAD. SC. , C-99 (398), p.236-243

PROJECTS AND APPLICATIONS

(2012-2016) Management Committee and working group WG3 Repository of VGI Analysis, Integration Tools and Methods in ICT COST Action IC1203

ENERGIC (European Network Exploring Research into Geospatial Information Crowdsourcing): Software and Methodologies for Harnessing Geographic Information from the Crowd)

http://www.cost.eu/domains_actions/ict/Actions/IC1203?management

(2010-2012) Development of a prototype cloud hydro information system.

<http://delipetrov.mk/his/>

<http://79.99.60.36/prototype/>

(2011) Installation, configuration and maintenance of XEN Cloud Platform on server IBM x3400 M. Currently there are several virtual machines operating on the server.

(2009-2011) Web site development (<http://delipetrov.mk/websolutions.php>)

- www.nana.com.mk
- www.dauti-transhped.com.mk
- www.akustika.com.mk
- www.ivaltrade.com
- www.imepack.com

(2009) GIS project of the Basic Hydrogeological map of Republic of Macedonia 1:200 000 (<http://delipetrov.mk/gisprojects.php>)

(2009) Technical design remediation activities for Lojane mine - UNDP

(2008) GIS project of the Basic Geological Map 1:100 000 Paper Ohrid, Republic of Macedonia (<http://delipetrov.mk/gisprojects.php>)

(2008) GIS project of the Basic Geological Map 1:100 000 Paper Kratovo, Republic of Macedonia (<http://delipetrov.mk/gisprojects.php>)

(2007) GIS project of the Basic Geological map of the Republic of Macedonia 1:200 000 (<http://delipetrov.mk/gisprojects.php>)

(2006) Design and installation of LAN network with supporting hardware on around 80 working places in the Shtip Tax department.

(2005) Actively participating in creation of the proposal for the Advanced Research Workshop project "New data for the magnetic field in the Republic of Macedonia for enhanced flying and airport safety". After project acceptance I was project coordinator and secretary.

(2005) Web site development for ARW project <http://delipetrov.mk/arw/>

(2004) Web site development for Tempus project <http://www.delipetrov.mk/tempus/index.asp>

(2004) Making Multimedia CD for the need of the Tempus project http://www.delipetrov.com/upload_tempus/multimedijajlno%20cd/Visualizations/index.html

(2003-2006) Secretary of the Tempus project Geomagnetic measurements and quality standards 2003-2006

ADDITIONAL INFORMATION

FOR REFERENCES PLEASE CONTACT:

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Important links:

<http://www.unesco-ihe.org/iu/phdstudent/9220649E214279A9C1257582003A893D>

<http://ugd.edu.mk/index.php/mk/fakulteti/inf/za-fakultetot/nastavnici>

www.delipetrov.com

<http://delipetrov.com/his/>