

## Europass Автобиография



### Лична информация

Собствено (и) име (на) /  
Фамилия(и)

**Доц. д-р Нина Христова Добринкова**

Адрес

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Националност

Българка

Дата на раждане

16-и Декември 1982

Предпочитана длъжност /  
Сфера на работа

**Разработка на софтуер и софтуерни приложения, менджмънт и координация на национални и международни проекти.**

Трудов стаж

**Доцент в ИИКТ-БАН  
Главен асистент в ИИКТ-БАН  
Асистент в ИИКТ-БАН  
Асистент в ИИТ-БАН  
Специализация в отдел IT-Projects, в Централната Европейска банка  
Докторантска програма в ИМИ-БАН**

Дати

**Януари 2011 – продължава:** последователно заемани длъжности в ИИКТ-БАН: доцент, главен асистент и асистент в секция „Комуникационни системи и услуги”  
**Януари 2009 – Декември 2010:** ИИТ-БАН, позиция като асистент в секция „Вземане на решения и оптимизации”  
**Август – Декември 2008:** специализация в отдел ИКТ-проекти (IT-Project) на Централната Европейска Банка в гр. Франкфурт  
**2007-2012:** Докторантска програма в ИМИ-БАН

Име и адрес на работодателя

ИИКТ-БАН, ул. „акад. Г. Бончев”, бл. 2, София 1113, България  
Central European Bank - Kaiserstrasse 29, D-60311, Frankfurt am Main, Germany  
ИМИ – БАН, ул. „акад. Г. Бончев”, бл. 8, София 1113, България

Вид на дейността или сферата на  
работа

Научни изследвания в областта на информационните технологии, моделиране и оптимизации при калибриране на модели за природни бедствия; изпълнение на научни проекти

Образование и обучение

Дати

**2007- 2012:** Доктор по спец. „Информатика” в ИМИ-БАН  
**2000 – 2006:** Бакалавърска и Магистърска степени по специалност „Информатика” – ЮЗУ ”Неофит Рилски” - Благоевград

Наименование на придобитата  
квалификация

Информатик и доктор по „Информатика”

Име и вид на обучаващата или образователната организация	Институт по математика и информатика – Българска академия на науките (ИМИ-БАН), изследователски институт на БАН ЮЗУ "Неофит Рилски" – Благоевград, университет																																																		
Допълнителни курсове на обучение	<b>Април-Май 2013:</b> Обучение във федералната агенция за горско стопанство към лабораторията за изследване на поведението на пожари в Мизула, щата Монтана в САЩ, с акцент на моделиране поведението на горски пожари с демонстрации и приложение на Behave Plus и Farsite моделите. <b>Юли-Август 2012:</b> Обучение във федералната агенция за горско стопанство към лабораторията за изследване на поведението на пожари в Мизула, щата Монтана в САЩ, с акцент на моделиране поведението на горски пожари с демонстрации и приложение на WFDSS ( <i>Wildland Fire Decision Support System, Система за вземане на решения при горски пожари</i> ) и Farsite модела. <b>Септември – Ноември 2008:</b> курс по немски език държан в Volkshochschule – Frankfurt, Германия <b>Януари - Май 2005:</b> курс по италиански език в Universita' per Stranieri – Perugia, Италия <b>Август - Септември 2004:</b> Австрийско-Български летен колеж във Варна <b>2000-2003:</b> Курсове по английски език в American University in Bulgaria - Благоевград																																																		
<b>Лични умения и компетенции</b>																																																			
Майчин (и) език (езици)	<b>Български</b>																																																		
Чужд (и) език (езици)	<b>Английски, Италиански, Немски</b>																																																		
Самооценяване Европейско ниво (*)	<table border="1"> <thead> <tr> <th colspan="4">Разбиране</th> <th colspan="4">Разговор</th> <th colspan="2">Писане</th> </tr> <tr> <th colspan="2">Слушане</th> <th colspan="2">Четене</th> <th colspan="2">Участие в разговор</th> <th colspan="2">Самостоятелно устно изложение</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>C1</td> <td>Отлично</td> <td>C1</td> <td>Отлично</td> <td>C1</td> <td>Отлично</td> <td>C1</td> <td>Отлично</td> <td>C1</td> <td>Отлично</td> </tr> <tr> <td>C1</td> <td>Отлично</td> <td>C1</td> <td>Отлично</td> <td>C1</td> <td>Отлично</td> <td>C1</td> <td>Отлично</td> <td>C1</td> <td>Отлично</td> </tr> <tr> <td>B1</td> <td>Много добър</td> <td>B1</td> <td>Много добър</td> <td>B1</td> <td>Много добър</td> <td>B1</td> <td>Много добър</td> <td>B1</td> <td>Много добър</td> </tr> </tbody> </table>	Разбиране				Разговор				Писане		Слушане		Четене		Участие в разговор		Самостоятелно устно изложение				C1	Отлично	C1	Отлично	C1	Отлично	C1	Отлично	C1	Отлично	C1	Отлично	C1	Отлично	C1	Отлично	C1	Отлично	C1	Отлично	B1	Много добър	B1	Много добър	B1	Много добър	B1	Много добър	B1	Много добър
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	(*) Единни европейски критерии за познания по езици																																																		
Социални умения и компетенции	Умение за работа в екип - придобито при изпълнение на десетки проекти с национално и международно финансиране. Умение за организиране и ръководство на проекти. Умение за работа в интердисциплинарни колективи – придобито при работа в големи европейски проекти и в чуждестранни научни институции. Способност за бърза адаптация към различни условия, придобита при работа и специализация в чуждестранни университети и лаборатории.																																																		
Организационни умения и компетенции	Координация и ръководство на дейности и пакети от научни проекти по различни финансирани идеи от програмите на DG ECHO, SEE, Cross-border cooperation Greece-Bulgaria, FP7, H2020																																																		
Технически и компютърни умения и компетенции	КОМПЮТЪРНА ГРАМОТНОСТ: ТЕКСТОВИ И ГРАФИЧНИ РЕДАКТОРИ, ОПЕРАЦИОННИ СИСТЕМИ И ПРОГРАМИРАНЕ Опит с финансовите инструменти в рамковите програми за научни изследвания на Европейската комисия Опит в писането на проектни предложения в рамковите програми за научни изследвания на Европейската комисия и за конкурсите на НФНИ																																																		
Шофьорска книжка	Да																																																		
Членство в научни организации	SIAM BULSIM IEEE Българска Картографска Асоциация IAWF																																																		

### Допълнителна информация

### **Изследователски международни проекти:**

1. 01.09.2019-31.08.2022 – Project called “Cooperation for fusing skills on Cloud-based Open GeoInformatics: Innovative Environmental Management” acronym: FuseGI funded under Erasmus + Topic “KA2 - Cooperation for innovation and the exchange of good practices”, Type of Action “KA203 - Strategic Partnerships for higher education”, Funding organization: „FR01 Agence Erasmus+ France / Education et Formation”.
2. 01.10.2019-31.03.2022 – Project funded from the European Union's Internal Security Fund – Police under grant agreement No 861789, called: “Confrontation of CBRN-Terrorism Threats” acronym: COBRA.
3. 02.10.2017 – 01.10.2019 - Project under INTERREG “Balkan - Mediterranean” called: “Drought and fire Observatory and early warning system” under priority axis Environment, specific objective – Sustainable territories, first call of proposals. Acronym: DISARM - Nina Dobrinkova is responsible for fire simulation for Bulgarian test case at BAS partner institute.
4. 01.02.2018 – 31.01.2020 - DG ECHO funded project under “ECHO A – Emergency Management - A/4 – Civil Protection Policy External line” called: “Alliance for Disaster Risk Reduction” (acronym: ALTER) - Grant Agreement number: 783214, UCPM-2017-PP-AG - Nina Dobrinkova is local responsible for the project technical implementation in BAS partner institute.
5. 02.10.2017 – 01.10.2019 - Cross-border project under INTERREG V-A “Greece-Bulgaria 2014-2020” called: „Protecting biodiversity at NATURA 2000 sites and other protected areas from natural hazards through a certified framework for cross-border education, training and support of civil protection volunteers based on innovation and new technologies” with acronym: eOUTLAND, (MIS CODE 5011437 and reg. number 1672) – Nina Dobrinkova is local responsible for the project in BAS.
6. 01.01.2015-31.12.2016 – International project funded under the financial instrument of DG „ECHO” full name of the project is LANDSLIDE RISK ASSESSMENT MODEL FOR DISASTER PREVENTION AND MITIGATION (AKRONYM: LANDSLIDE) ECHO/SUB/2014/695754. – Nina Dobrinkova is local responsible for the project in BAS.
7. 01.03.2015-28.02.2017- International project funded under the financial instrument of DG „ECHO” full name of the project is „Civil Protection for All” (Acronym: CP4ALL) ECHO/SUB/2014/695754 – Nina Dobrinkova is local responsible for the project in BAS.
8. 01.05.2014-30.04.2017 – FP7 funded project funded under FP7-SEC-2013-1 contract number: 608078, called „Improving Preparedness and Response of Health Services in major crisis” with acronym: IMPRESS. – Nina Dobrinkova is local responsible for the project in BAS.
9. 2013-2015 – International project funded under the financial instrument of DG „ECHO” full name of the project is “Simple Management of Risk Through a Web Accessible Tool for EU Regions” и акроним: SMART WATER ECHO/SUB/2012/638449. – Nina Dobrinkova is local responsible for the project in BAS.
10. 2012 -2014 – Cross-border project under Interreg Greece-Bulgaria “Greece-Bulgaria territorial cooperation program 2007-2013”. Full name of the project is: “Open Protocols and tools for the education and Training of voluntary organisations in the field of Civil Protection, against natural Disasters (forest fires) in Greece and Bulgaria”, acronym: “OUTLAND”.
11. 2011 – 2013 – International project funded under the financial instrument of DG „ECHO” full name of the project is: „Good on Emergency Situations”, acronym: GOES 070401/2010/579105/SUB/C4 – Nina Dobrinkova is local responsible for the project in BAS.
12. 2011-2012 – PRACE is a „High-Performance Computing” project which was providing infrastructure for parallel computations during PhD studies. This project has been distributed in: Austria, Bulgaria, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Italy, The Netherlands, Norway, Poland, Portugal, Serbia, Slovenia, Spain, Sweden, Switzerland, Turkey and the UK.
13. 2009 – 2012: International project under South East Europe - “Practical Use of MONITORing in natural disaster management”- SEE/A/118/2.2/X (acronym: MONITORII).
14. 2010 – 2011: International project called ETN TRICE: Teaching, Research, and Innovation in Computing Education, Erasmus Thematic Network No. 142399-LLP-1-2008-1-BG-ERASMUS-ENW.
15. 2009 – 2010: International project funded under the financial instrument of DG „ECHO” full name of the project is: Complex Floods Management in European Union Vulnerable Areas through effective Reaction and Joint Operations Simulation in 2010, 070401/2009/534328/SUB/A3(EVROS2010).
16. 2010 - U.S. National Foundation grant AGS-0835579 & U.S. National Foundation grant AGS-0835579 - PhD studies funded research under the team of prof. Jan Mandel.

### **Изследователски български проекти:**

1. 12.12.2017 - 12.06.2019: Bulgarian National Scientific Fund project with grant number DN 12/5 "Efficient Stochastic Methods and Algorithms for Large-Scale Computational Problems".
2. Dec. 2016 – Dec. 2018: Bulgarian National Scientific Fund project with grant number ДМ02/1 “Анализ на данни за интеграцията на ИКТ ресурси в българските училища”.
3. 2013 – 2015: Bulgarian National Scientific Fund project with grant number I01/0006 –called “Simulation of wild-land re behavior”.
4. 2012-2015 - National project performed under Operative programme “Competitiveness” BG-funded project: A Unified Platform for Administration, Automation, and Management of Internationally Recognized Standards, with main scope on promoting bilateral agreement between private companies and research institutions like ICT-BAS, Supporting the models for management of the internationally recognized standards and tools for processing of pre-developed scenarios and set-ups on disaster management, Building an innovative product and platform for the administration, automation and management.

5. 2012-2015 - working on national project supported by the National Science Fund of the Bulgarian Ministry of Education, Youth and Science under call for "Fundamental scientific research support - 2012" Grant I01/0006 with project name "Simulation of wildland fire behavior" with FARSITE runs for Bulgarian test cases on the territory of Zlatograd municipality.
6. April-May 2013 – ministry of education funded project called "Classification of fuel burning materials according to the Bulgarian forestry maps and its implementation in the computer based systems" project number - MY-8-10/2013r., ДО2-478/26.03.2013r. As part of the Science and Business program for human development BG051PO001-3.3.05-0001.
7. July-August 2012 – ministry of education funded project called "Forest Fire data processing at Missoula Fire Lab in US" project number - MY-3-08/2012, ДО2-465/04.06.2012r. As part of the Science and Business program for human development BG051PO001-3.3.05-0001.
8. 2009 – 2012: working on national project supported by the National Science Fund of the Bulgarian Ministry of Education, Youth and Science under Ideas Concourse Grant DID-02-29 "Modelling Processes with Fixed Development Rules (ModProFix)", with runs of WRF-Fire model for Bulgarian fire in the area of Harmanli.
9. 2009 – 2012: working on national project supported by the National Science Fund of the Bulgarian Ministry of Education, Youth and Science under Thematic Concourse Grant No DTK02/71 "Web-Based Interactive System, Supporting the Building Models and Solving Optimization and Decision Making Problems", with main task optimization of the fire behaviour modelling with Wrf-Fire.
10. 2009 – 2011: working on national project supported by the National Science Fund of the Bulgarian Ministry of Education, Youth and Science under Yong researchers Concourse Grant DMU 02/14 "Collecting and Processing of Data Concerning Wild land Fires, Occurred On The Bulgarian Territory In The Recent Years By Using WEATHER RESEARCH AND FORECASTING MODEL-FIRE (WRF-FIRE)", with main task data collection for calibration of the past fire in the area of Leshnikovo, near Harmanli.
11. 2009 – 2010: working on national project supported by the National Science Fund of the Bulgarian Ministry of Education, Youth and Science under call for stimulation of the scientific research in the state universities, Grant DVU01/0430, project title "Informational Security: Trusted Platforms", with main task of platform tests and publication activities.
12. 2009-2010: Social Fund and Bulgarian Ministry of Education, Youth and Science under Operative Program "Human Resources Development", Grant BG051PO001-3.3.04/40,
13. Oct. 2007 – March. 2008 – working on national project for support writing a FP7 proposal (contract number "СРП-102/07").

## Publications of Assoc. Prof. Dr. Nina Dobrinkova

1. **Nina Dobrinkova**, Stefanov S., "Open source GIS for civil protection response in cases of wildland fires or flood events", 12th International Conference on "Large-Scale Scientific Computations" LSSC'19. Lecture Notes in Computer Science, Springer, vol 11958. **2020**, DOI: [https://doi.org/10.1007/978-3-030-41032-2\\_34](https://doi.org/10.1007/978-3-030-41032-2_34), Online ISBN 978-3-030-41032-2, ISSN 1611-3349, p. 309- p. 314.
2. **Nina Dobrinkova**, Alexander Arakelyan, Aghavni Harutyunyan, Sean Reynolds "Project for an open source GIS tool for visualization of flood risk analysis after mining dam failures", 12th International Conference on "Large-Scale Scientific Computations" LSSC'19. Lecture Notes in Computer Science, Springer, vol 11958. **2020**, DOI: [https://doi.org/10.1007/978-3-030-41032-2\\_34](https://doi.org/10.1007/978-3-030-41032-2_34), Online ISBN 978-3-030-41032-2, ISSN 1611-3349, p. 300- p. 308.
3. **Dobrinkova N.**, "Data optimizations on Kresna Fire (2017) as inputs for WFA simulations" **Springer book Recent Advances in Computational Optimization**. Studies in Computational Intelligence, Volume 838, ISSN 1860-949X, ISSN 1860-9503 (electronic), ISBN 978-3-030-22722-7, ISBN 978-3-030-22723-4 (eBook), **2020** <https://doi.org/10.1007/978-3-030-22723-4>, p.31-p.44.
4. **Dobrinkova N.**, Stefanov S., "Desktop application developed by open source tools for optimizations in cases of natural hazards and field response" **Springer book Recent Advances in Computational Optimization**. Studies in Computational Intelligence, Volume 838, ISSN 1860-949X, ISSN 1860-9503 (electronic), ISBN 978-3-030-22722-7, ISBN 978-3-030-22723-4 (eBook), **2020** <https://doi.org/10.1007/978-3-030-22723-4>, p.17-p.29.
5. Velev T., **Dobrinkova N.**, "The logical model of unify, innovative Platform for Automation and Management of Standards (PAMS)" 1<sup>st</sup> International Scientific Conference Digital Transformation, Cyber Security and Resilience" DIGILIENCE2019, Sofia 2-4 October 2019. ISIJ Digital Transformation, Cyber Security and Resilience, ISSN 0861-5160 (print), ISSN 1314-2119 (online), vol. 43, no. 1 (2019): 113-120, DOI: <https://doi.org/10.11610/isij.4310>, **2019**, p.113-p.120.
6. **Dobrinkova N.**, Stefan Stefanov, Stefan Hadjitodorov, Alexander Arakelyan, Alen Amirkhanian, Ara Barseghyan, Susan Mnatsakanian, George Drakatos, Christos Evangelidis, Vangelis Katsaros, George Boustras "Emergency planning and optimizations based on dam break flood risk maps visualized with open source web-GIS tool", Proceeding of 14<sup>th</sup> Federated Conference on Computer Science and information Systems - 12<sup>th</sup> International (**FEDCSIS'19**), Leipzig, Germany, September, 2019, vol.19, ISBN: 978-83-955416-1-2 (Web), 978-83-955416-2-9 (USB), ISSN: 2300-5963, DOI: <http://dx.doi.org/10.15439/978-83-955416-1-2>, **2019**, p.3-p.7.

7. **Dobrinkova N.**, Cardil A., Boyvalenkov P., Kostadinov H., “ The use of Wildfire Analyst in the Kresna Fire 2017 (Bulgaria)”, Proceedings for the 6<sup>th</sup> International Fire Behavior and Fuels Conference April 29 – May 3, 2019, Albuquerque, New Mexico, Marceille. Published by the International Association of Wildland Fire, Missoula, Montana, USA, **2019**, p.1-p.6.
8. **Dobrinkova N.**, “Application of GIS tools in wildland fire modeling for south Bulgarian test cases”, Proceeding of 26th Symposium ‘Deltas and Wetlands’ 16-20 May 2018, Tulcea, Romania, Scientific Annals of the Danube Delta Institute, vol. 24.Tulcea (Romania), printed version: ISSN 1842 - 614X, on-line version: ISSN 2247 – 9902, DOI - <https://doi.org/10.7427/DDI.24.26>, **2019**, p. 243 – p. 250.
9. **Nina Dobrinkova**, Alexander Arakelyan, Aghavni Harutyunyan, Andriana Zlatkova “GIS flood Decision Support tool after dam break (Armenian test case)”, 19<sup>th</sup> International multidisciplinary scientific conference **SGEM 2019**, 30 June – 6 July 2019, Albena, Bulgaria, Proceeding Vol. 19, Issue 2.1 (Informatics, Geoinformatics and Remote Sensing), ISBN: 978-619-7408-79-9, ISSN: 1314-2704, DOI: 10.5593/sgem2019/2.1, **2019**, p. 911 – p. 918.
10. Dobrinkova N., Panayotov M., Boyvalenkov P. (2019) Optimisation Techniques in Wildfire Simulations. Test Case Kresna Fire August 2017. In: Nikolov G., Kolkovska N., Georgiev K. (eds) Numerical Methods and Applications. NMA 2018, 9<sup>th</sup> International Conference on Numerical Methods and Applications August 20- 24, 2018, Borovets, Bulgaria Lecture Notes in Computer Science, vol 11189. Springer, Cham, Print ISBN 978-3-030-10691-1, Online ISBN 978-3-030-10692-8, DOI [https://doi.org/10.1007/978-3-030-10692-8\\_8](https://doi.org/10.1007/978-3-030-10692-8_8), pp 72-79.
11. **Nina Dobrinkova**, Thomas Finnie, James Thompson, Ian Hall, Christos Dimopoulos, George Boustras, Yianna Danidou, Nectarios Efstathiou, Chrysostomos Psaroudakis, Nikolaos Koutras, George Eftichidis, Ilias Gkotsis, Marcel Heckel, Andrej Olunczek, Ralf Hedel, Antonis Kostaridis, Marios Moutzouris, Simona Panunzi, Geert Seynaeve, Sofia Tsekeridou, Danae Vergeti, “Optimisation of Preparedness and Response of Health services in major crises using the IMPRESS platform” Springer book Recent Advances in Computational Optimization. Studies in Computational Intelligence, Volume 795, ISBN:978-3-319-99648-6, ISSN:1860-9503, DOI: 10.1007/978-3-319-99648-6\_2, **2019**, p.15-p.34.
12. Terzieva, V., Pavlov, Y., **Dobrinkova, N.**, Paunova-Hubenova, E.. “A Study on Integration of ICT Resources in STEM Education - Utility Assessment”. Proceedings of the 11<sup>th</sup> annual International Conference of Education, Research and Innovation (ICERI2018), November 12–14, 2018, Seville, Spain, IATED, **2018**, ISBN:978-84-09-05948-5, ISSN:2340-1095, p.2434-p.2443.
13. Drakatos George, Evangelidis Christos, Katsaros Vangelis, Boustras Giorgios, Amirkhanian Alen, Reynolds Sean, Barseghyan Ara, Chilingaryan Armen, Mnatsakanian Suzan, **Dobrinkova Nina**, Lazaridou Olia., “ALTER PROJECT: AN ALLIANCE FOR DISASTER RISK REDUCTION IN ARMENIA”, Book of Abstracts of the 36th General Assembly of the European Seismological Commission, 2-7 September 2018, Valletta (Malta), ESC2018-S41-293, ISBN: 978-88-98161-12-6, **2018**, p. 632- p. 633.
14. Terzieva, V., Paunova-Hubenova, E., Dimitrov, S., **Dobrinkova N.**. “ICT in Bulgarian Schools – Changes in the Last Decade”. Proceedings of the 10th International Conference on Education and New Learning Technologies EDULEARN18, 2-4 July 2018, Palma de Mallorca, Spain, 2018, ISBN:978-84-09-02709-5, ISSN:2340-1117, p.6801-p.6810.
15. M. Josifova, **N. Dobrinkova** “Corellated responsibility and risk assessment – effective measure against climate change, disasters and floods” (Book in Bulgarian), **2018**, Amicum Ltd press house, ISBN 978-619-90976-0-1, **216 pages**.
16. **N. Dobrinkova**, P. Maponi, “Landslide Hazard, Environmental Dependencies and Computer Simulations”, 11<sup>th</sup> International Conference on Large-Scale Scientific Computations, Sozopol, Bulgaria, 5 – 9 June 2017. Large-Scale Scientific Computing, Lecture Notes in Computer Science, vol. 10665, Springer. DOI: 10.1007/978-3-319-73441-5\_50, ISSN 0302-9743 ISSN 1611-3349 (electronic), ISBN 978-3-319-73440-8 ISBN 978-3-319-73441-5 (eBook), **2018**, p. 458-p. 465.
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