

Curriculum Vitae



Personal information

Yuri Mitkov Dimitrov

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Nationality Bulgarian

Work experience

2016 – to present
Position Assistant
Company/Institution University of Forestry, Sofia, Bulgaria
2013 – 2016
Position Ph.D.
Company/Institution University of Ruse „Angel Kanchev”, Ruse, Bulgaria
2011 - 2012
Position PC Maintenance
Company/Institution ET „Tihomir Todorov”, Ruse, Bulgaria
1998 - 2010
Position Teaching Assistant
Company/Institution Ohio State University, Columbus, OH, USA
1996 - 1998
Position Teaching Assistant
Company/Institution Michigan Technological University, Houghton, MI, USA

Education and Training

	1985 -1989
Institution	Mathematical High School „Baba Tonka”, Ruse, Bulgaria
	1989 -1996
Degree	M.Sc.
Major	Mathematics
Institution	Sofia University „Kliment Ohridski”, Sofia, Bulgaria
	1993 -1994
	Tempus exchange student
Institution	University of East Anglia, Norwich, UK
	1996 -1998
Degree	M.Sc.
Major	Mathematics
Institution	Michigan Technological University, Houghton, USA.
	1998-2006
Degree	Ph. D.
Major	Mathematics
Institution	Ohio State University, Columbus, USA
	2008-2010
Degree	M.Sc.
Major	Computer Science
Institution	Ohio State University, Columbus, USA
	2013-2017
Degree	Ph. D.
Major	Mathematics, Numerical Methods
Institution	University of Ruse „Angel Kanchev”, Ruse, Bulgaria

Languages

	Understanding		Speaking		Writing
	Listening	Reading	Spoken Interaction	Spoken Production	
English	C2	C2	C2	C2	C1
Russian	C1	C1	B1	B1	B1

Mathematical Olympiads Balkan Mathematical Olympiad, Split, Croatia, 1989 (silver medal)

Digital Competence Matlab, Mathematica, Latex.

Driving License Category B

Publications

- [1] Y. Dimitrov, G. Edgar, *Solutions of self-differential functional equations*, Real Analysis Exchange 32, (2007) 29-54.
- [3] Y. Dimitrov, G. Edgar, *Eigenvalues of a self-differential operator*, International Journal of Pure and Applied Mathematics 52, (2009) 87-115.
- [2] Y. Dimitrov, C. Giovine, G. Mango and M. Lauria, *A combinatorial model for self-organizing networks*, IEEE International Parallel and Distributed Processing Symposium, Long Beach, CA (2007).
- [4] Y. Dimitrov, M. Lauria, *A stochastic model for layered self-organizing complex systems*, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering 5, (2009) 1495-1503.
- [5] Y. Dimitrov, *Numerical approximations for fractional differential equations*, Journal of Fractional Calculus and Applications, 5(3S) (2014), No. 22, 1-45.
- [6] Y. Dimitrov, *A second order approximation for the Caputo fractional derivative*, Journal of Fractional Calculus and Applications, 7(2) (2016), 175-195.
- [7] Y. Dimitrov, L. Vulkov, *Three-point compact finite difference scheme on non-uniform meshes for the time-fractional Black-Scholes equation*, AIP Conf. Proc. 1690, 040022, Sozopol, Bulgaria (2015).
- [8] Y. Dimitrov, *Three-Point approximation for the Caputo fractional derivative*, accepted
- [9] Y. Dimitrov, *Higher-order numerical solutions of the fractional relaxation-oscillation equation using fractional integration*, arXiv:1603.08733 (2016).
- [10] Y. Dimitrov, *Approximations for the Caputo derivative I*, Journal of Fractional Calculus and Applications, 9(1) (2018), 15-44.
- [11] Y. Dimitrov, *Approximations for the Caputo derivative II*, arXiv:1604.07188 (2016).
- [12] Р. Мирянов, Ю. Димитров, *Използване веригите на Марков за подобряване на някои организационни аспекти на порт Варна*, ИПС-2017: Том 1, Варна: Наука и икономика, (2017).
- [13] Y. Dimitrov, R. Miryanov and V. Todorov, *Quadrature formulas and Taylor series of secant and tangent*, Economics and computer science, Issue 4 (2017), 23-40.