

## PERSONAL INFORMATION

### Ivan Georgiev



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Sex male | Date of birth 25/10/1983 | Nationality Bulgarian

## WORK EXPERIENCE

From 2021 to now

### Associate professor in Department of Applied Mathematics and Statistics

University in Ruse "Angel Kunchev"

- Conducted lecture courses on: research of operations, numerical methods, game theory, probabilities and statistics, mathematics 2 (applied), higher mathematics 3, quantitative methods in management, etc.

From 2016 to 2021

### Assistant professor in Department of Applied Mathematics and Statistics

University in Ruse "Angel Kunchev"

- Chief Assistant at the Department of Applied Mathematics and Statistics at the University "Angel Kunchev" since 2016. until now. Conducted lecture courses on: research of operations, numerical methods, game theory, probabilities and statistics, mathematics 2 (applied), higher mathematics 3, quantitative methods in management, etc.

From 2009 to 2016

### Assistant in Applied Mathematics and Statistics

University in Ruse "Angel Kunchev"

- Assistant at the Department of Applied Mathematics and Statistics at the University "Angel Kunchev" 2009-2016.

## EDUCATION AND TRAINING

from 2007 to 2015

### PhD

Topic of dissertation: *Immersed finite element interface method for elliptic and parabolic problems*

from 2005 to 2007

Master degree  
Information and educational technologies  
University in Ruse "Angel Kunchev"

from 2001 to 2005

Bachelor degree  
Technologies in machine building  
University in Ruse "Angel Kunchev"

## PERSONAL SKILLS

Mother tongue(s)	Bulgarian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Replace with language	B1/B2	B1/B2	B1/B2	B1/B2	B1/B2
	Replace with name of language certificate. Enter level if known.				
English/ Russian	B1/B2	B1/B2	B1/B2	B1/B2	B1/B2
	Replace with name of language certificate. Enter level if known.				

**Communication skills** I have acquired and developed the communication skills needed for negotiation.

- Job-related skills**
- Interests in the field of numerical methods for differential equations. Differential schemes. Finite element method. Applied Mathematics. Probabilities and statistics. Mathematical modelling. Operations research. Computer mathematics.
  - acquired professional skills in organizing and conducting experimental research;
  - acquired skills in analysing experimental data from experimental research;
  - acquired knowledge and skills to work with different experimental equipment.

Digital skills	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](#)

- Replace with name of ICT-certificates
- very good skills of CAS system ( computer algebra system): Matlab, Mupad, Python, SPSS and good office skills (Textual program, spreadsheet, presentation program)
  - good knowledge of specialized software for statistical processing of information, acquired during the preparation of dissertation thesis.

**Driving licence** B

**ADDITIONAL INFORMATION**

MONOGRAPHS

- 1.Pencheva, V., A. Asenov, A. Sladkowski, B. Ivanov, I. Georgiev. Current Issues of Multimodal and Intermodal Cargo Transportation. , Springer Science and Business Media Deutschland GmbH, 2022, pp. 51-124
- 2.Pencheva V, A. Asenov, I. Georgiev, A. Sladkowski. Ecology in Transport: Problems and Solutions Chapter:Research on the State of Urban Passenger Mobility in Bulgaria and Prospects for Using Low Carbon Energy for Transport. Switzerland AG, Springer International Publishing, 2020, pp. 441-504, ISBN 978-3-030-42323-0.
- 3.Pencheva V, A. Sladkowski, A. Asenov, I. Georgiev, I. Beloev, K. Ivanov. Modelling of the Interaction of the Different Vehicles and Various Transport Modes Chapter: The Danube River, Multimodality and Intermodality. Switzerland AG, Springer International Publishing, 2019, pp. 233-288, ISBN 978-3-030-11511-1.
- 4.Павлов, В., И. Георгиев. Оптимизационни методи с MATLAB. Русе, Авангард Принт, 2016, стр. 144, ISBN 978-954-337-318-5.

## ARTICLES

1. Zaharieva, S., I. Georgiev, V. Mutkov, Y. Neikov. Arima Approach For Forecasting Temperature In A Residential Premises Part 2.// 2021 20th International Symposium INFOTEH-JAHORINA (INFOTEH), East Sarajevo, Bosnia and Herzegovina, 2021, No , pp. 1-5, ISSN 978-1-7281-8230-8. (SJR rank: 0 / , )
2. Zaharieva, S., I. Georgiev, A. Borodzhieva, V. Mutkov. Classical Approach For Forecasting Temperature In Residential Premises Part 1.// 2021 20th International Symposium INFOTEH-JAHORINA (INFOTEH), East Sarajevo, Bosnia and Herzegovina, 2021, No , pp. 1-6, ISSN 978-1-7281-8230-8. (SJR rank: 0 / , )
3. Georgiev I, I. Andreev. Methodical Scheme for Introduction of Combinatorial Compounds in Mathematics Education.// TEM Journal, 2021, No Volume 10, pp. 414 - 420, ISSN 2217-8309. (SJR rank: 0.17 /2019, <https://www.scopus.com/sourceid/21100831441?origin=sbrowse>)
4. Atanasov A, I. Georgiev. A multicriteria model for optimal location of honey bee colonies in regions without overpopulation.// AIP Conference Proceedings, 2021, No 2333, pp. 090008-1-090008-8, ISSN 978-0-7354-4077-7. (SJR rank: 0.19 /2019, Scimago Journal & Country Rank)
5. Pencheva V., I. Georgiev, A. Asenov. Evaluation Of Passenger Waiting Time In Public Transport By Using The Monte Carlo Method.// Application of Mathematics in Technical and Natural Sciences, AIP Publishing, 2021, No 2321 (SJR rank: 0.19 /2019, <https://www.scimagojr.com/journalsearch.php?q=26916&tip=sid&clean=0>)
6. Kostadinova, V., I. Georgiev, V. Mihova, V. Pavlov. An Application of Markov Chains in Stock Price Prediction and Risk Portfolio Optimization.// New Trends in the Applications of Differential Equations in Sciences, AIP Publishing, 2021, No 2321, pp. 030018-1-11 (SJR rank: 0.182 /2018, [www.scimagojr.com](http://www.scimagojr.com))
7. I. Georgiev, E. Veleva. Modeling the Effect of Measures to Limit the Spread of Infectious Diseases.// Application of Mathematics in Technical and Natural Sciences, 2021, No 2321 (SJR rank: 0.182 /2018, [www.scimagojr.com](http://www.scimagojr.com))
8. Kostadinova, V., I. Georgiev. Application of Markov Chains to Forecast Stock Market Trends.// Proceedings of Financial Mathematics and Informatics, vol. 59, Ruse, Bulgaria, University of Ruse, 2020, No 59, pp. 45-50
9. Georgiev, I., D. Grozev, V. Pavlov, E. Veleva. Comparison of Heuristic Algorithms for Solving a Specific Model of Transportation Problem.// Application of Mathematics in Technical and Natural Sciences, AIP Publishing, 2020, No 2302, pp. 06004-1-7, ISSN 978-0-7354-4036-4. (SJR rank: 0.182 /2018, [www.scimagojr.com](http://www.scimagojr.com))
10. Pancheva, E., I. Georgiev. The influence of social distance on economic losses.// Proceedings of Financial Mathematics and Informatics, vol. 59, Ruse, Bulgaria, University of Ruse, 2020, No 59, pp. 11-15
11. E. Veleva, I. Zheleva, I. Georgiev. Decomposition Techniques for Modelling the Levels of Particulate Matter PM10 Air Pollutant in the City of Silistra, Bulgaria.// Application of Mathematics in Technical and Natural Sciences, AIP Publishing, 2020, No 2302, pp. 060019-1-9, ISSN 978-0-7354-4036-4. (SJR rank: 0.182 /2018, [www.scimagojr.com](http://www.scimagojr.com))
12. Pencheva V., A. Asenov, I. Georgiev. Multiobjective modelling in choice of route and vehicle for public city transportation for minimum travel time, low cost and energy consumption.// EE&AE 2020 : 2020 7th International Conference on Energy Efficiency and Agricultural Engineering, IEEE Xplore, 2020, No 2004 (SJR rank: 0 /2019, [www.scimagojr.com](http://www.scimagojr.com))
13. E. Veleva, I. R. Georgiev. Seasonality of the Levels of Particulate Matter PM10 Air Pollutant in the City of Ruse, Bulgaria.// Application of Mathematics in Technical and Natural Sciences, AIP Publishing, 2020, No 2302, pp. 030006-1-8, ISSN 978-0-7354-4036-4. (SJR rank: 0.182 /2018, [www.scimagojr.com](http://www.scimagojr.com))
14. Grozev, D., I. Georgiev, D. Georgiev. Study of the operation of taxi cars in an emergency situation.// IOP Conference Series: Materials Science and Engineering, 2020, No 1002 (SJR rank: 0.2 /2019, <https://www.scimagojr.com/journalsearch.php?q=19700200831&tip=sid&clean=0>)
15. E. Veleva, I. Georgiev, I. Zheleva, M. Filipova. Markov Chains Modelling of Particulate Matter (PM10) Air Contamination in the City of Ruse, Bulgaria.// Application of Mathematics in Technical and Natural Sciences, AIP Publishing, 2020, No 2302, pp. 060018-1-9, ISSN 978-0-7354-4036-4. (SJR rank: 0.182 /2018, [www.scimagojr.com](http://www.scimagojr.com))
16. Manukova A., I. Georgiev, M. Marinov. Statistically Based Criteria for Complex ECG Signal Assessment at Preventive Cardio Control.// In Proceedings of the 21st International Conference on Computer Systems and Technologies (CompSysTech '20), June 19-20, 2020, Ruse, Bulgaria, 2020, No 6, pp. 169-174 (SJR rank: 0.2 /2019, <https://www.scimagojr.com/journalsearch.php?q=11600154611&tip=sid&clean=0>)
17. Pencheva V, A. Asenov, I. Georgiev, A. Sladkowski. Research on the State of Urban Passenger Mobility in Bulgaria and Prospects for Using Low Carbon Energy for Transport.// Springer International Publishing, 2020, No 1, pp. 441-504, ISSN 978-3-030-42323-0. (SJR rank: 0.13 /2019, <https://www.scimagojr.com/journalsearch.php?q=21100901469&tip=sid&clean=0>)
18. Grozev D, Milchev M, Georgiev I. Study the work of specialized car service as queue theory.// International Scientific Journals of Scientific Technical Union of Mechanical Engineering "Industry 4.0", 2020, No Vol. 4 (2020, pp. 31-34, ISSN 2535-0986.
19. Pencheva, V., A. Asenov, D. Grozev, I. Georgiev, P. Stoyanov. Study of the daily irregularity on specific routes, servicing the passenger stops in Ruse Bulgaria.// Transport Problems, 2019, No , pp. 5-19 (SJR rank: 0 / , )
20. Grozev D, Mihail Milchev, Ivan Georgiev. Evaluation of the Operating Parameters of Taxi Cars in City of Rousse.// International Journal of Transportation Systems, 2019, No Volume 4, pp. 40-44
21. Andreev I, I Georgiev, M Varbanova. One Approach for Solving Trigonometric Equations Using Complex in the Mathematical Education.// TEM Journal, 2019, No Vol.8, No.4, pp. 1339-1344 (SJR rank: 0.15 /2018, <http://www.scimagojr.com>)
22. Grozev D., I. Georgiev, M. Milchev. EVALUATION OF A STRATEGY FOR REDUCING OF REFUSALS OF REQUESTS RECEIVED IN UNIVERSAL AUTOMOTIVE SERVICE, TECHNICAL SCIENCES. INDUSTRIAL MANAGEMENT.// XVI INTERNATIONAL SCIENTIFIC CONGRESS MACHINES. TECHNOLOGIES. MATERIALS, 2019, No V1, pp. 25-28, ISSN 2535-0196.
23. Grozev D, M Milchev and I Georgiev. Analysis of the load on the taxi system in a medium-sized city.// IOP Conference Series: Materials Science and Engineering, 2019, No Volume 664, (SJR rank: 0.192 /2018, <http://www.scimagojr.com>)
24. Asenov A, V Pencheva and I Georgiev. Modelling passenger service rate at a transport hub serviced by a single urban bus route as a queueing system.// IOP Conference Series: Materials Science and Engineering, 2019, No Volume 664, (SJR rank: 0.192 /2018, <http://www.scimagojr.com>)

25. Centeno, V., I. Georgiev, V. Mihova, V. Pavlov. Price Forecasting and Risk Portfolio Optimization.// Application of Mathematics in Technical and Natural Sciences, AIP Publishing, 2019, No 2164, pp. 060006-1-15 (SJR rank: 0.182 /2018, [www.scimagojr.com](http://www.scimagojr.com))
26. Pencheva, V., A. Tsekov, I. Georgiev, S. Kostadinov. Analysis and assessment of the regularity of mass urban passenger transport in the conditions of the city of Ruse.// Transport Problems, 2018, No , pp. 109-118 (SJR rank: 0.2 /2017, <http://www.scimagojr.com>)
27. Grozev D., Georgiev I., Milchev M. APPLYING QUEUE THEORY AT STUDY OF REFUSALS OF REQUESTS RECEIVED IN UNIVERSAL AUTOMOTIVE SERVICE.// MATHEMATICAL MODELING, 2018, No YEAR II, ISSN 2535-0986.
28. Velizara PENCHEVA, Asen ASENOV, Dimitar GROZEV, Rositsa ANGELOVA, Ivan GEORGIEV. ANALYSIS OF THE TRAFFIC INTENSITY OF CARGO VEHICLES IN THE BORDER POINTS.// Transport Problems, 2018, No Volume 13, I (SJR rank: 0.2 /2017, <http://www.scimagojr.com>)
29. Dimitar Grozev, Velizara Pencheva, Ivan Georgiev, Ivan Beloev. Investigation of the operation mode at Ruse-Danube Bridge border checkpoint considered to be a mass service system with incoming flow of automobiles at a non-stationary mode of operation.// MATEC Web of Conferences, 2018, No 234, 06003 (SJR rank: 1.454 /2018, <http://www.scimagojr.com>)
30. E. Raeva, I. R. Georgiev. Fourier approximation for modeling limit of insurance liability.// AIP Conference Proceedings, 2018, No 2025 (SJR rank: 0.164 /2018, <http://www.scimagojr.com>)
31. M. Filipova I. R. Georgiev, I. Zheleva. Numerical study of the influence of the heater position upon the heat transfer during pyrolysis process used for end-of-life tires treatment.// AIP Conference Proceedings, 2018, No 2025, 040008 (SJR rank: 0.164 /2018, SJR rank: 0.164 /2017, <http://www.scimagojr.com>)
32. Zheleva I. I. Georgiev M. Filipova. Identification of the influence of the heating upon the heat transfer during pyrolysis process used for End-of-Life tires treatment.// MATEC Web of Conferences 145, 2018, No 03016 (SJR rank: 1.3 /2018, <http://www.scimagojr.com>)
33. Georgiev I J Kandilarov. Immersed interface finite element method for diffusion problem with localized terms.// Proceedings of the Union of Scientist–Ruse, 2015, No 12, pp. 23-32, ISSN 1314 - 3077.
34. Karakoleva, S., I. Georgiev, S. Georgiev, P. Zlatarov. RESULTS FROM COMPUTER MATHEMATICS EDUCATION FOR MOTIVATED STUDENTS AT RUSE UNIVERSITY.// PROCEEDINGS OF THE UNION OF SCIENTISTS – RUSE, MATHEMATICS, 2015, No 12, pp. 48-57, ISSN 1314-3077.
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36. Djurov V, M. Kostova. I. Georgiev. A MATHEMATICAL MODEL SYSTEM FOR RADIOLOCATIONAL IMAGE RECONSTRUCTION OF DYNAMIC OBJECT WITH LOW RADIOLOCATIONAL VISIBILITY.// Proceedings of the Union of Scientists – Ruse, "Mathematics, Informatics and Physics", 2012, No 9, pp. 35-40, ISSN 1314-3077.
37. Pavlov, V., I. Georgiev. Branch-and-Bound Technique in Economics.// Journal of International Scientific Publications: Economy and Business, 2012, No 6, pp. 34-42, ISSN 1313-2555.
38. Zaharieva Sn., Mutkov V., Georgiev I. Electronic measurement system for monitoring of geometrical parameters of rolling shaped metal profiles" (Elektroniczny system pomiarowy do kontroli parametrów geometrycznych profili produkowanych na.// Journal of Electronics, Poland, 2012, No 1, pp. 95-98
39. Климентов Кл., И. Георгиев, П. Русев, Г. Попов, Б. Костов. Моделиране на процесите в работното колело на центробежни помпи при работа с водо-въздушна смес.// Топлотехника, 2010, брой 1, стр. 27-30
40. Georgiev I., J. Kandilarov. An Immersed Interface FEM for 1D Elastic Continuum Vibrations Under a Traveling Load.// AIP Conference Proceedings, 2010, No 1301, pp. 379-386 (SJR rank: 0.166 /2010, <http://www.scimagojr.com>)
41. Georgiev I., J. Kandilarov. An immersed interface FEM for elliptic problems with local own sources.// AIP Conference Proceedings, 2009, No 1186, pp. 335-342 (SJR rank: 0.163 /2009, <http://www.scimagojr.com>)
42. Georgiev, I.R., I. Zheleva, M. Filipova. Numerical study of the influence of two-burner heating upon the heat transfer during pyrolysis process used for end-of-life tires (EOLT) treatment. IN: 11th International Conference for Promoting the Application of Mathematics in Technical and Natural Sciences, AMiTaNS 2019, , American Institute of Physics Inc., 2019, pp. -, ISBN 9780735419094.
43. Dimitrova, T. I. Georgiev. Comparison of heuristic algorithms in solving a specific model of transport problem using mixed integer linear programming. IN: НАУЧНИ ТРУДОВЕ Том 58, серия 6.5. Финансова математика & Информатика, Русе, 2019, pp. 16-21, ISBN 2603-4123.
44. Pencheva V., A. Asenov, I. Georgiev, S. Penev. Assessment of the Types of Traffic Accidents in the Territory of Bulgaria. IN: International Scientific Conference TRANSPORT PROBLEMS, Katowice, Poland, 2019, ISBN 978-83-935232-6-9.
45. Pencheva V., A. Tsekov, I. Georgiev, P. Stoyanov, A. Asenov. Investigation of Waiting Times at Urban Passenger Transport Stops for the Movement of Vehicles with Irregular Running Intervals Using Simulation. IN: International Scientific Conference TRANSPORT PROBLEMS, Katowice, Poland, 2019, ISBN 978-83-935232-6-9.
46. GROZEV D., I. GEORGIEV, M. MILCHEV. ANALYSIS OF THE TRANSPORT OPERATION OF TAXI CARS. IN: Transport problems, Katowice, Poland, Katowice, Poland, 2019
47. Zheleva, I., I. Georgiev, M. Filipova. Identification of the influence of the heating upon the heat transfer during pyrolysis process used for End-of-Life tires treatment. IN: 13th National Congress on Theoretical and Applied Mechanics, NCTAM 2017, , EDP Sciences, 2018, pp. -
48. Pentcheva V., A. Asenov, I. Georgiev, Aleksander Sladkowski. MAIN PROBLEMS AND PROSPECTS FOR DEVELOPMENT OF URBAN PASSENGER TRANSPORT IN BULGARIA. IN: НАУЧНИ ТРУДОВЕ НА РУСЕНСКИЯ УНИВЕРСИТЕТ, vol. 57, book 4, Русе, Русенски университет, 2018, pp. 88-88, ISBN 1311-3321.
49. Ivanov B., A. Asenov, V. Pentcheva. OPTIMIZING TIME TO TRANSPORT TRANSIT LOADS IN A MULTIMODAL SCHEME BETWEEN THE SEA AND RIVER PORTS WITH AUTOMOBILE TRANSPORT. IN: НАУЧНИ ТРУДОВЕ НА РУСЕНСКИЯ УНИВЕРСИТЕТ, vol. 57, book 4, Русе, Русенски университет, 2018, pp. 123-131, ISBN 1311-3321.
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52. Иван Георгиев. Един метод на крайните елементи за параболични задачи с прекъснати коефициенти и наличие на локален източник. В: НАУЧНИ ТРУДОВЕ НА РУСЕНСКИЯ УНИВЕРСИТЕТ - 2014, том 53, серия 6.1, Русе, 2014
53. Михова, В., Е. Христова, И. Георгиев. Математико-икономически анализ на инвестиционен проект – изграждане на хладилно плодохранилище. В: НАУЧНИ ТРУДОВЕ НА РУСЕНСКИЯ УНИВЕРСИТЕТ - 2014, том 53, серия 6.1, Русе, Русенски университет „Ангел Кънчев“, 2014, стр. 28-34, ISBN 1311-3321.
54. Караколева, С. Р., И. Георгиев. Изследване удовлетвореността от обучението по Компютърна математика. В: Научни трудове на РУ&СУ, Русе, Русенски университет „Ангел Кънчев“, 2014, стр. 46-51, ISBN 1311-3321.
55. Велева, Е. Ив. Георгиев. Обучението по Медицинска статистика за специалности Кинезитерапия и Ерготерапия в Русенски университет. В: Математика и математическо образование, Доклади на 43-та пролетна конференция на Съюза на математиците в България, Боровец, април, 2014, стр. 227 - 233, ISBN 1313-3330.
56. Мушakov, Пл., Желева Ив., Георгиев Ив. Моделиране и изследване на температурата в камерата с двустъпална хладилна машина. В: НК на Русенски Университет "А. Кънчев", Русе, 2014
57. Георгиев, И. Г., С. Р. Караколева. Моделиране и числено решаване на задача за обем на непълна бъчва. В: НАУЧНИ ТРУДОВЕ НА РУСЕНСКИЯ УНИВЕРСИТЕТ, том 52, серия 6.1, Русе, Издателски център на Русенски университет „Ангел Кънчев“, 2013, стр. 32-36, ISBN 1311-3321.
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59. Джуров В., И. Георгиев. Метод за подобряване структурната скритост на сондиращ сигнал в X-ти диапазон. В: Научна сесия 2011, Сборник научни трудове, Част 2, НВУ " В. Левски " Факултет "Артилерия , ПВО и КИС", Шумен, 2012, стр. 112-116., ISBN 1313-7433.
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