CIRRICULUM VITAE

Nevena Mijajlović, PhD

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EDUCATION

Year	Name of school
2010 – 2015	**University of Montenegro, Faculty of Sciences and Mathematics,** Ph.D in Mathematics, Thesis title: "Methods for solving quasi-variational inequalities", thesis advisor: professor academic Milojica Jaćimović, GPA: 10.00/10.00
2008 – 2009	**University of Montenegro, Faculty of Sciences and Mathematics,** M. Sc in Mathematics, Thesis title: "Variationial principles", Thesis advisor: professor academic Milojica Jaćimović, GPA: 10.00/10.00
2007 – 2008	**University of Montenegro, Faculty of Sciences and Mathematics,** Spec. Sc in Mathematics, GPA: 10.00/10.00
2004 – 2007	**University of Montenegro, Faculty of Sciences and Mathematics,** B.Sc in Mathematics, GPA: 9.80/10.00

FELLOWSHIPS AND AWARDS

Year	Name
2024	Grant for participating to the 9th European Congress of Mathematics (ECM2024)
2018	Grant for participating to the International Congress of Mathematicians (ICM2018)
2016	Danubius Young Scientist Award for Montenegro
2016	Grant for participating to 7th European Congress of Mathematics
2015	Participant on the 3rd Heidelberg Laureate Forum
2006	University award for the best student of Faculty of Science and Mathematics
2007	Award of the Montenegrin Academy of Sciences and Arts for the best student of natural sciences

2007 "Decembarska nagrada grada Podgorice" (the Award of the Municipality of Podgorica for distinctive results achieved as a student)

2005, 2006, 2007 Annual fellowship of the Ministry of Education of the Republic of Montenegro

RESEARCH AREAS: Methods of optimisation, Variational analysis, Variational inequalities, Quasi-variational inequalities, Mathematical programming, Game theory, Data analysis, Artificial intelligence

TEACHING EXPERIENCE

Year	Title
2021 –	**Associate professor, University of Montenegro, Faculty of Sciences and Mathematics,** Lagrangian multipliers**,** graduate course
2021 –	**Associate professor, University of Montenegro, Faculty of Electrical Engineering,** Mathematics 3**,** undergraduate course
2021 –	**Associate professor, University of Montenegro, Faculty of Sciences and Mathematics,** Differential equations, Analytic geometry, undergraduate courses
2021 –	**Associate professor, University of Montenegro, Faculty of Civil Engineering,** Numerical analysis, doctoral course
2017 – 2021	**Assistant professor, University of Montenegro, Faculty of Sciences and Mathematics,** Game theory, graduate course
2017 – 2021	**Assistant professor, University of Montenegro, Faculty of Electrical Engineering,** Mathematics 3**,** undergraduate course
2016 – 2021	**Assistant professor, University of Montenegro, Faculty of Sciences and Mathematics,** Differential equations, Analytic geometry, undergraduate courses
2015 – 2016	**Lecturer, University of Montenegro, Faculty of Sciences and Mathematics,** Differential equations, undergraduate course
2015 – 2016	**Lecturer, University of Montenegro, Faculty of Civil Engineering,** Mathematics I, undergraduate course
2008 – 2014	**Teach. assistant, University of Montenegro, Faculty of Sciences and Mathematics,** Mathematical Analysis 3, undergraduate course, Mathematical Analysis 4, undergraduate course, Differential equations, undergraduate course
2008 – 2009	**Teach. assistant, University of Montenegro, Faculty of Sciences and Mathematics,** Probability and statistics, undergraduate course
2008 – 2014	**Teach. assistant, University of Montenegro, Faculty of Pharmacy,** Mathematics, undergraduate course
2008 – 2012	**Teach. assistant, University of Montenegro, Faculty of Metallurgy and Technology,** Mathematics I, undergraduate course
2013 – 2014	**Teach. assistant, University of Montenegro, Faculty of Metallurgy and Technology,** Mathematics I, Mathematics II, undergraduate course

PROFESSIONAL ACTIVITIES AND MEMBERSHIPS

Reviewer

- Journal of Optimization Theory and Applications
- Set-valued and variational analysis
- Optimization
- Mathematical methods of Operational Research
- Bulletin of the Iranian Mathematical Society
- Journal of Applied Mathematics and Computing
- Results in Control and Optimization
- Acta mathematica Vietnamica
- YUJOR

Editorial Board

- American Journal of Applied Mathematics
- Journal of Mathematics

Member

- Executive board of University of Montenegro (since 2021)
- President of Council of the Statistical System of Montenegro(since 2022)
- Executive board of Elementary school “Pavle Rovinski” (2022 - 2024)
- Committee for Mathematics and Physics of the Montenegrin Academy of Sciences and Arts (since 2023)
- Center of Young Scientists and Artists of the Montenegrin Academy of Sciences and Arts (since 2022)
- Society of Mathematicians and Physicists of Montenegro (since 2008)
- Organizing and Program Committee of the International Conference OPTIMA since its establishment in 2009

PARTICIPATION IN THE SCIENTIFIC PROJECTS

Year	Title
2023 – 2023	Manager of the project “Summer school for future STEM leaders”, founder Western Balkan Fund
2023 – 2024	Manager of the bilateral project “Optimization of Networks of Coupled Oscillators and Applications in Machine Learning”, bilateral project Slovenia - Montenegro
2023 – 2026	Project manager at University of Montenegro on ERASMUS+ project "Promoting and Facilitating Collaborative Virtual International Learning in the Western Balkans’ Higher Education Institutions” (COWEB)

2021 – 2022	Researcher of the project “Collective Evolution Strategies for Distributed Learning on Non-Euclidean Data”, bilateral Project Austria - Montenegro
2019 –2020	Researcher of the project “Low-dimensional dynamics in Abelian and non-Abelian Kuramoto models and applications to distributed control in multi-agent systems”, bilateral Project China - Montenegro
2020 – 2022	Researcher of the project “Mathematical models of collective motions: distributed controls and optimization”, founder Ministry of Science of Montenegro
2019 – 2023	Member of MC Committee in COST action CA18232 Mathematical models for interacting dynamics on networks
2018 – 2020	Manager of the project “Games that generate networks: transport, economics and social evolution”, founder Ministry of Science of Montenegro
2018 – 2020	Researcher in the project „Genetic heritage of grapevine in Montenegro“, Montenegrin Academy of Sciences and Arts
2017 – 2021	Member of MC Committee in COST action IC1408 Computationally-intensive methods for the robust analysis of non-standard data
2017 – 2022	Member of MC Committee in COST action CA16228 European Network for Game Theory
2017 – 2018	Researcher in the project “Several Complex Variables and Harmonic Analysis”, Bilateral Project Austria - Montenegro
2016 – 2018	Researcher in the project “Information system to support collaborative services delivery in urban areas”, Bilateral Project Serbia - Montenegro
2016 – 2018	Researcher in the project “Modern aspects of complex analysis”, Bilateral Project Slovenia - Montenegro
2013 – 2015	Researcher in the project “Analysis in manifolds”, Bilateral Project China - Montenegro
2011 – 2016	Researcher in the project “Analysis on manifolds and applications”, founder Ministry of Science of Montenegro

PROFESSIONAL TRAINING AND STAY AT INTERNATIONAL INSTITUTIONS

Date	Institution
17-21 June 2024	University Cote d’Azur, Nice, France, digital week “Highrises & Pitfalls of Digital transformation in Organizations”
08-12 April 2024	Dresden University of Technology, Dresden, Germany, staff week
25-29 March 2024	University of South Bohemia in České Budějovice, Czech Republic, teaching mobility
15-19 May 2023	University of Seville, Spain, staff week
27 June-01 Jul 2022	Paris Lodron University of Salzburg, Austria, staff week
13-18 June 2022	University of South Bohemia in České Budějovice, Czech Republic, teaching mobility
11-15 April 2022	University of South Bohemia in České Budějovice, Czech Republic, teaching mobility

ADDITIONAL

Born	October 4, 1985, Podgorica, Montenegro
Citizenship	Montenegrin
Languages	Serbian (native command), English (fluent) , Russian (passive)
Computer skills	MS Office, C, C++, Latex, Mathematica, MatLab

PUBLICATIONS

Publication in refereed journals

1. **Mijajlović, N.**, Jaćimović, M. Three-Step Approximation Methods from Continuous and Discrete Perspective for Quasi-Variational Inequalities. Comput. Math. and Math. Phys. 64, 605–613 (2024). https://doi.org/10.1134/S0965542524700027

2. **N. Mijajlović**, M. Jaćimović, Strong convergence theorems by an extragradient-like approximation methods for quasi-variational inequalities, Optim Lett 17, 901–916 https://doi.org/10.1007/s11590-022-01871-z, (2023)

3. Aladin Crnkić , Milojica Jaćimović , Vladimir Jaćimović & **Nevena Mijajlović** (2021) Consensus and coordination on groups SO(3) and S^3 over constant and state-dependent communication graphs, Automatika, 62:1, 76-83, DOI: 10.1080/00051144.2020.1863544

4. Aladin Crnkić, Igor Ivanović, Vladimir Jaćimović, **Nevena Mijajlović**, Swarms on the 3-sphere for online clustering of multivariate time series and data streams, Future Generation Computer Systems, Volume 112, 2020, Pages 11-17, ISSN 0167-739X, https://doi.org/10.1016/j.future.2020.05.018.

5. Demidova A.V., Druzhinina O.V., Jacimovic M, Masina O.N., **Mijajlovic N**., Olenev N., Petrov A.A. The generalized algorithms of global parametric optimization and stochastization for dynamical models of interconnected populations // Lecture Notes in Computer Science (LNCS). Springer, 2020. V. 12422. P. 40–54. https://doi.org/10.1007/978-3-030-62867-3_4

6. **N. Mijajlović,** M. Jaćimović, M. A. Noor, Gradient-type projection methods for quasi-variational inequalities, Optimization letters, DOI: 10.1007/s11590-018-1323-1, Vol. 13, Number 8, p. 1885-1896, 2019

7. **Н. Мияйлович**, М. Ячимович, Некоторые непрерывные методы для решения квазивариационных неравенств, Ж. вычисл. матем. и матем. физ., Vol. 58, Issue 2, 2018

8. A.S.Antipin, E.V. Khoroshilova, M. Jacimovic, **N. Mijajlovic**, Model of stabilization for inter-branch balance by Leontiev, Proceedings of the selected papers of the IX Moscow International Conference on Operations Research, ISBN 978-5-317-05924-8, Moscow 2018, p. 23-28

9. A. S. Antipin, M. Jaćimović, **N. Mijajlović,** "Extragradient Method for Solving Quasivariational Inequalities", Optimization, DOI: 10.1080/02331934.2017.1384477, Vol 67, Issue 1, 2018

10. Demidova A.V., DruzhininaO.V., Jacimovic M, Masina O.N., **Mijajlovic N**. Synthesis and analysis of multidimensional mathematical models of population dynamics // Proceedings of the Selected Papers of the 10th International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT-2018, Moscow). New York: IEEE Catalog Number CFP, IEEE Explore Digital Library, 2018

11. Масина О.Н.., Дружинина О.В., **Мияйлович Н**., Ячимович М. Исследование устойчивости некоторых классов моделей естествознания на основе принципа редукции // Материалы молодежной секции в рамках IV Международной научно-практической конференции «Системы управления, технические системы: устойчивость, стабилизация, пути и методы исследования». Елец: ЕГУ им. И.А. Бунина, 2018. С. 121–125.

12. S. Vujošević, N. Radojević, N. Belada, **N. Mijajlović**, V. Kalinić, S. Borozon, S. Medenica, Cardiovascular diabetic autonomic neuropathy as a risk factor for electrical complications in acute myocardial ischemia, Serbian archives, DOI: https://doi.org/10.2298/SARH171122020V

13. Демидова А.В., Дружинина О.В., Масина О.Н., **Мияйлович Н.**, Ячимович М. Синтез и анализ многомерных математических моделей популяционной динамики // Материалы Всероссийской конференции с международным участием «Информационнотелеком-муникационные технологии и математическое моделирование высокотехнологичных систем» (Москва, РУДН, 16–20 апреля 2018 г.). М.: РУДН, 2018. С. 329–332.

14. A. V. Demidova, O. V. Druzhinina, M. Jacimovic, O.N. Masina, **N. Mijajlović,** Synthesis and Analysis of Multidimensional Mathematical Models of Population Dynamics, Proceedings of the Selected Papers of the 10th International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT-2018, Moscow). New York: IEEE Xplore Digital Library, 2018

15. **N. Mijajlovic**, M. Jacimovic, Newton's and Linearization Methods for Quasi-variational Inequlities, CEUR Workshop Proceedings (ISSN: 1613-0073), Volume 1987, 2017, Page(s) 399-405

16. M. Jaćimović, **N. Mijajlović,** On Methods for Solving Quasi Variational Inequalities, Proceedings of the VIII Moscow International Conference on Operations Research (ORM 2016), pp 49-52, Moscow, October 2016, (ISBN 978-5-317-05205-8)

17. **N. Mijajlović,** M. Jaćimović**,** "Proximal methods for solving quasi-variational inequalities", Computational Mathematics and Mathematical Physics, (ISSN:0965-5425), Volume 55, Issue 12, Dec. 2015, Page(s) 1981-1985

18. A. S. Antipin, **N. Mijajlović**, M. Jaćimović, "A Second Order Iterative Method for Solving Quasi Variational Inequalities", Computational Mathematics and Mathematical Physics (ISSN:0965-5425), Volume 53, Issue 3, Mar. 2013, Page(s) 258-264

19. A. S. Antipin, **N. Mijajlović**, M. Jaćimović, "A Second Order Continuous Method for Solving Quasi Variational Inequalities", Computational Mathematics and Mathematical Physics (ISSN:0965-5425), Volume 51, Issue 11, Nov. 2011, Page(s) 1856-1863

20. И. Крнич, **Н. Мияйлович**, М. Ячимович, „Апостериорные оценки точности и методы решения квазивариационных неравенств“, IV Международная конференция Математика, ее приложения и матемтическое образование, Улан-Удэ, июне 2011, Байкал, pages 62-64, ISBN: 978-5-89230-390-3

21. Milojica Jaćimović, **Nevena Mijajlović**, „On a Conitnuous Gradient-type Method for Solving Quasi-variational Inequalities“, Proceedings of the section of natural sciences MASA ,p. 16-27, vol.19, 2011, ISSN: 0350-5464

Refereed conference

1. **Nevena Mijajlović**, Milojica Jaćimović, *Three-step method from continuous and discrete perspective for quasi-variational inequalities*, OPTIMA 2023, Petrovac, Montenegro

2. Milojica Jaćimović, **Nevena Mijajlović**, Strong convergence of extragradient-like methods for solving QVI, MOTOR 2023, Yekatereniburg, July 2-8, 2023

3. Milojica Jaćimović, **Nevena Mijajlović**, “Optimization. Quasi-variational inequalities”, 2nd Joint Mathematical Meeting of Serbia and Montenegro, Belgrade, January 2023

4. **Nevena Mijajlović**, Milojica Jaćimović, “Methods for solving QVI”, XII Symposium ”Mathematics and Applications”, Belgrade, December 2022

5. **Nevena Mijajlović**, “Projection gradient-type methods for quasi-variational inequalities”, Congress of Young Mathematicians, Novi Sad, September 2022

6. Milojica Jaćimović, **Nevena Mijajlović**, “High order methods for quasi-variational inequalities”, IX Moscow International Conference on Operational Conference, Moscow, 22-26 October, 2018

7. **Nevena Mijajlovic**, “New methods for solving minimization problems with coupled constraints”, Word Meeting for Women in Mathematics (WM)^2, Rio de Janeiro, July 31st, 2018

8. **Nevena Mijajlovic**, Milojica Jacimovic, “Variational and Quasivariational Inequalities - solution methods”, International congress of mathematicians (ICM2018), Rio de Janeiro, August 1-9, 2018

9. Milojica Jacimovic, **Nevena Mijajlovic**, “Minimization with coupled constraints, quasi-varitaional inequalities - solution methods”, XIII Balkan Conference on Operational Research, Belgrade 25-28 May, 2018

10. **Nevena Mijajlovic**, Milojica Jacimovic, “Newton Methods for Solving Quasi-variational Inequlities”, Games, Dynamics and Optimization 2018, March, Vienna, Austria

11. M. Jaćimović, **N. Mijajlović**, “Variational and quasivariational inequalities - solution methods”, VIII Simpozijum “Matematika i primene”, 17-18 Novembar, Beograd, 2017

12. **Nevena Mijajlovic**, Milojica Jacimovic, “Newton's and Linearization Methods for Quasi-variational Inequlities”, Optima 2017, Petrovac, Montenegro

13. **Н. Мияйлович**, М. Ячимович, Некоторые непрерывные методы для решения квази вариационных неравенств, Научная конференция “Моделирование коэволяциии природы и общества: проблемы и опыт”, 7-10 ноября, Москва, Россия 2017

14. Milojica Jaćimović, **Nevena Mijajlović**, „On the Quasivariational Inequalities “, VII European Congress of Mathematics, 22-28 July, Berlin, 2016

15. **Nevena Mijajlović**, Milojica Jaćimović, Vladimir Božović, Methods for Solving Quasi-Variational Inequalities, VII European Congress of Mathematics, 22-28 July, Berlin, 2016

16. M. Jaćimović, **N. Mijajlović,** M.A. Noor, Some generalisations of gradient-type projection method for solving quasi-variational inequalities, VII International Conference on Optimisation Methods and Applications (OPTIMA), pp 72-73, September 2016, Petrovic, Montenegro (ISBN 978-5-91993-063-1)

17. M. Jaćimović, **N. Mijajlović,** On Methods for Solving Quasi Variational Inequalities, VIII Moscow International Conference on Operations Research (ORM 2016), pp 49-52, Moscow, October 2016, (ISBN 978-5-317-05205-8)

18. **Nevena Mijajlović**, Milojica Jaćimović, Iterative methods for solving quasi-variational inequalities, VI International Conference on Optimization Methods and Applications, Petrovac, Montenegro, 2015, ISBN: 978-5-91601-114-2

19. Milojica Jaćimović, **Nevena Mijajlović**, „Linearization methods for solving quasi-variational inequalities“, V International Conference on Optimization Methods and Applications, Petrovac, Montenegro, 2014

20. Milojica Jaćimović, **Nevena Mijajlović**, „Ill-posedness and Regularized Algorithms for Solving Quasi-Variational Inequalities“, IV International Conference on Optimization Methods and Applications, Petrovac, Montenegro, 2013, ISBN: 978-5-91601-079-4

21. **Nevena Mijajlović**, „About Methods for Solving Quasi-Variational Inequalities“, II International Conference Optimization and Applications, Petrovac, Montenegro, 2011, ISBN: 978-5-91601-051-0

22. A. S. Antipin, M. Jacimovic, **N. Vujosevic**, “About Regularized Algorithms for Solving Variational Inequalities”, International Conference Optimization and Applications, Petrovac, Montenegro, 2009

23. И. Крнич, **Н. Мияйлович**, М. Ячимович, „Апостериорные оценки точности и методы решения квазивариационных неравенств“, IV Международная конференция Математика, ее приложения и маттемтическое образование, Улан-Удэ , Байкал, 2011, ISBN: 978-5-89230-390-3

24. M. Jaćimović, **N. Mijajlović**, „Regularized algorithms for solving quasi variational inequalities“, III Mathematical Conference of Republic of Srpska, Trebinje, 2013

25. M. Jaćimović, **N. Mijajlović**, „On Gradient Methods for Solving Quasi Variational Inequalities“, I Mathematical Conference of Republika Srpska, Trebinje, 2012

26. **N. Mijajlović**, M. Jaćimović, „Methods of Linearization for Solving Variational Inequalities“, Congress of Mathematicians and Physicists of Montenegro, Petrovac, Montenegro, 2010