|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name and family name | | | | | | | Nataša M. Krklec Jerinkić | | | | | |
| Title | | | | | | | Associate Professor | | | | | |
| Name of the institution employing the teacher full-time or part-time, since when | | | | | | | Faculty of Sciences, University of Novi Sad, since 2011. | | | | | |
| A narrow scientific or artistic field | | | | | | | Numerical mathematics | | | | | |
| Academic career | | | | | | | | | | | | |
|  | | | | Year | Institution | | | | Scientific or art field | | Narrow scientific, art or vocational field | |
| Election to a title | | | | 2019 | Faculty of Science, UNS | | | | Mathematics | | Numerical mathematics | |
| Doctorate | | | | 2014 | Faculty of Science, UNS | | | | Mathematics | | Numerical mathematics | |
| Diploma | | | | 2007 | Faculty of Science, UNS | | | | Mathematics | | Mathematics | |
| **List of subject the teacher has been accredited for in the first or the second degree of studies** | | | | | | | | | | | | |
| No. | | Code of the subject | Name of the subject | | | | | Model of teaching | | Name of the study program | | Type of studies (ОСС, ССС, ОАС, МСС, МАС, САС) |
| 1 | | IH-103 | Selected chapters of mathematics | | | | | Lectures, Exercises | | IH | | ОАS, МАS |
| 2 | | МB31 | Time Series | | | | | Lectures, Exercises | | МB | | МАS |
| 3 | | М120 | Numerical analysis 1 | | | | | Lectures | | М | | ОАS |
| 4 | | P402 | Numerical analysis 2 | | | | | Lectures | | МАP | | ОАS |
| 5 | | P600 | Završni rad-istraživanje | | | | | Study research work | | МАP | | ОАS |
| 6 | | P504 | Numerical methods and optimization | | | | | Lectures | | МАP | | ОАS |
| 7 | | CS252 | Numerical methods and optimization | | | | | Lectures | | RN | | ОАS |
| 8 | | P602 | Regresion analysis | | | | | Exercises | | МАP | | ОАS |
| 9 | | P506 | Introduction to machine learning | | | | | Lectures | | МАP | | ОАS |
| 10 | | MDS04 | Fundamentals of Numerical Optimization | | | | | Lectures, Exercises | | МDS | | МАS |
| 11 | | МDS13 | Time series | | | | | Lectures | | МDS | | МАS |
| 12 | | 19.MW0006 | Master Thesis Research | | | | |  | | Artificial Intelligence | | MAS |
| 13 | | 19.MW0011 | Vocational practice | | | | |  | | Artificial Intelligence | | MAS |
| 14 | | 19.MW0007 | Master Thesis | | | | |  | | Artificial Intelligence | | MAS |
| 15 | | 19.MW0106 | Numerical Linear Algebra 2 | | | | | lectures | | Artificial Intelligence | | MAS |
| 16 | | 19.MW0104 | Numerical Linear Algebra 1 | | | | | lectures | | Artificial Intelligence | | MAS |
| 17 | | 19.MW0105 | Time Series | | | | | lectures | | Artificial Intelligence | | MAS |
| **Representative references (minimum 5, maximum 10)** | | | | | | | | | | | | |
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|  | Krklec Jerinkić, N., Rožnjik, A., Penalty variable sample size method for solving optimization problems with equality constraints in a form of mathematical expectation, NUMERICAL ALGORITHMS, vol. 83(2), pp. 701-718, (2020), <https://doi.org/10.1007/s11075-019-00699-6> (M21a) | | | | | | | | | | | |
|  | Bellavia, S.,Krejić, N., Krklec Jerinkić, N., Subsampled Inexact Newton Methods for minimizing large sums of convex functions,IMA J. Numer. Anal. 40,4 (2020), 2309-2341 <https://doi.org/10.1093/imanum/drz027> (M21a) | | | | | | | | | | | |
|  | Krejić, N., Krklec Jerinkić, N., Spectral Projected Gradient Method for Stochastic Optimization, *Journal of Global Optimization* 73,1 (2019), 59-81. <https://doi.org/10.1007/s10898-018-0682-6> (M21) | | | | | | | | | | | |
|  | Bajović, D. Jakovetić, D., Krejić, N., Krklec Jerinkić, N.,Newton-like Method with Diagonal Correction for Distributed Optimization, SIAM J. Optimization Vol. 27 No.2 (2017), 1171-1203. <https://doi.org/10.1137/15M1038049> (M21a) | | | | | | | | | | | |
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|  | Bajović, D., Jakovetić, D., Krejić, N., Krklec Jerinkić, N., Distributed Second-Order Methods With Increasing Number of Working Nodes, IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol. 65(2), (2020), pp. 846-853. doi: 10.1109/TAC.2019.2922191 (M21) | | | | | | | | | | | |
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|  | Jakovetić, D., Krejić, N., Krklec Jerinkić, N., Exact spectral-like gradient method for distributed optimization, COMPUTATIONAL OPTIMIZATION AND APPLICATIONS, vol. 74(3), pp. 703-728, (2019). https://doi.org/10.1007/s10589-019-00131-8 (M21) | | | | | | | | | | | |
|  | Krejić, N., Krklec Jerinkić, N., Rožnjik, A., Variable sample size method for equality constrained optimization problems, OPTIMIZATION LETTERS, vol. 12(3), pp. 485-497, (2018) https://doi.org/10.1007/s11590-017-1143-8 (M21) | | | | | | | | | | | |
| **Cumulative information about teachers scientific, art or vocational activity** | | | | | | | | | | | | |
| Total number of citations | | | | | | 62 (SCOPUS) | | | | | | |
| Total number of papers from the SCI (SSCI) list | | | | | | 18 | | | | | | |
| Current participation in projects | | | | | | National 2 | | | International 5 | | | |
| Specializations | | | | |  | | | | | | | |