

IRENA STOJKOVSKA

CURRICULIM VITAE

BASIC INFORMATION

- **Name:** Irena Stojkovska
- **Date of birth:** April, 4, 1977, Skopje, Macedonia
- **Citizenship:** Macedonian
- **Marital status:** Married, two children
- **Title of present position:** Associate Professor at Institute of Mathematics, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University of Skopje, Macedonia
- **Highest degree earned:** PhD
- **Major discipline:** Applied Mathematics, Optimization
- **Research interests:** Optimization methods, Inventory models, Statistical modeling
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- **E-mail:** irenatra@pmf.ukim.mk, irena.stojkovska@gmail.com
- **Web page:** <http://im-pmf.weebly.com/irena-stojkovska.html>
- **Personal web site:** <http://irenastojkovska.weebly.com/>

ACADEMIC DEGREES

- September 1999, B.Sc in Mathematics, Ss. Cyril and Methodius University, Skopje, Macedonia (BSc thesis title: Konveksno programiranje. Metodi na bezuslovna optimizacija / Convex programming. Unconstrained optimization methods, supervisor: d-r Risto Malcheski)
- May 2004, M.Sc in Mathematics, Ss. Cyril and Methodius University, Skopje, Macedonia (MSc thesis title: Dualnost vo matemacko programiranje / Duality in mathematical programming, supervisor: d-r Risto Malcheski)
- January 2011, PhD in Mathematics, Ss. Cyril and Methodius University, Skopje, Macedonia (PhD thesis title: Modifikacii na Njutnoviot metod za zadachi na stohastichko programiranje / Modifications of Newton method for stochastic programming problems, supervisors: d-r Zorana Luzanin and d-r Natasa Krejic, University of Novi Sad, Serbia)

ACADEMIC AND PROFESSIONAL POSITIONS

- (October 2000 - December 2004): Teaching assistant, Institute of Mathematics, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje, Macedonia
- (December 2004 - June 2011): Teaching and Research assistant, Institute of Mathematics, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje, Macedonia

IRENA STOJKOVSKA CURRICULUM VITAE

- (June 2011 - February 2016): Assistant Professor, Institute of Mathematics, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje, Macedonia
- (February 2016 -): Associate Professor, Institute of Mathematics, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje, Macedonia
- (February 2014 -): Coordinator of the Career Center at Institute of Mathematics, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje, Macedonia
- (October 2014 -): Head of MSc Program in Numerical Optimization and Approximations at Institute of Mathematics, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje, Macedonia

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Member of Society of Mathematicians of Republic of Macedonia (since 2000)
- Member of IMACS - International Association for Mathematics and Computers in Simulation (2015)

UNDERGRADUATE COURSES

Computer Programming, Numerical Mathematics, Probability, Statistics, Mathematical Programming, Integer Programming, Stochastic Programming, Operations Research, Stochastic Processes, Statistical software, Statistical modeling, Information theory

- supervisor of many project and seminar papers
- supervisor of several BSc thesis
- <http://nastava-istojkovska.weebly.com/> (teaching materials, exam results)

POSTGRADUATE COURSES

Numerical Optimization, Optimization Methods in Statistics, Optimization in Finance, Stochastic Processes, Methodology of Research in Education

- supervisor of 5 (five) MSc thesis

EDITORIAL WORK

- Member of the Editorial Board of the popular mathematics publication Numerus, Union of Mathematicians of Macedonia, Skopje
- Member of the Editorial Board of the popular mathematics publication Sigma, Union of Mathematicians of Macedonia, Skopje
- Member of the Editorial Board of the scientific journal Decision Science Letters, Growing Science (since June 2014)

IRENA STOJKOVSKA CURRICULUM VITAE

- Editor of the mathematics portal POIM, Department of Mathematics, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje (since November 2014)
<http://poim-pmf.weebly.com/>
- Editor of the mathematics website Matematika + (since September 2015)
<http://matematika-plus.weebly.com/>

PROJECTS

- Applied pilot project "Enlarging the entrepreneurial competences of the academic staff and students at Faculty of Natural Sciences and Mathematics, Skopje, Macedonia" in collaboration with South East European Center for Entrepreneurial Learning (SEECEL), Zagreb, Croatia for 2014/2015 academic year (as a department coordinator)
- Scientific research project "Mathematical structures and applications" financed by Ss. Cyril and Methodius University of Skopje, Macedonia scientific research projects for 2014/2015 academic year (as a researcher)

ORGANIZATION OF EVENTS

- Second seminar *Mathematics and Applications*, December 2017, Skopje, Macedonia, organized by Department of Mathematics, Faculty of Natural Sciences and Mathematics, Skopje, Macedonia (the chief coordinator)
<http://im-pmf.weebly.com/vtor-seminar-matematika-i-primeni.html>
- Workshop for elementary school students *Mathematics is More Than Numbers*, 11 November 2017, Skopje, Macedonia, as a part of the Manifestation November - Month of Science, November 2017, Skopje, Macedonia (as one of the coordinators)
<http://im-pmf.weebly.com/noemvri-mesec-na-naukata.html>
- First seminar *Mathematics and applications*, December 2016, Skopje, Macedonia, organized by Department of Mathematics, Faculty of Natural Sciences and Mathematics, Skopje, Macedonia (the chief coordinator) - UPCOMING EVENT
<http://im-pmf.weebly.com/seminar-matematika-i-primeni.html>
- Workshop *Mathematics and predictions*, 11 May 2016, Skopje, Macedonia, organized by Department of Mathematics, Faculty of Natural Sciences and Mathematics, Skopje, Macedonia (the chief coordinator)
<http://im-pmf.weebly.com/rabotilnica-matematikata-i-predviduvanjata.html>
- MASSEE International Congress of Mathematics MICOM2009, Ohrid, Macedonia, 2009 (a member of the Organizing Committee)
- III Congress of Mathematicians of Macedonia, Struga, Macedonia, 2008 (a member of the Organizing Committee)
- III Congress of Mathematicians of Macedonia, Struga, Macedonia, 2005 (a member of the Organizing Committee)

ATTENDED COURSES AND WORKSHOPS

- Workshop *The 99th European Study Group with Industry*, 3-7 February 2014, Novi Sad, Serbia, organized by Department of Mathematics and Informatics, Faculty of Sciences, Novi Sad, Serbia
- Intensive Course *Microlocal Analysis, Wave Fronts and Propagation of Singularities*, 16-21 September 2013, Novi Sad, Serbia, in the framework of the DAAD project "Centre of Excellence for Applications of Mathematics", organized by Faculty of Sciences, Novi Sad, Serbia
- Intensive Course *Fractional Calculus with Applications in Mechanics*, 16-24 September 2007, Novi Sad, Serbia, in the framework of the DAAD project "Centre of Excellence for Applications of Mathematics", organized by Faculty of Sciences, Novi Sad, Serbia
- Intensive Course *Numerical Optimization and Its Applications*, 22-31 May 2006, Novi Sad, Serbia and Montenegro, in the framework of the DAAD project "Centre of Excellence for Applications of Mathematics", organized by Faculty of Sciences, Novi Sad, Serbia and Montenegro
- Conference *Multimedia Technology for Mathematics and Computer Science Education*, 10-12 November 2005, Belgrade, Serbia and Montenegro, organized by Faculty of Mathematics, Belgrade University and Serbian Academy of Science and Arts
- Conference *10-th Workshop on Well-posedness of Optimization Problems and Related Topics*, 05-09 September 2005, Borovec, Bulgaria, organized by Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Bulgaria
- Intensive Course *Probabilistic models in Mathematical Biology and Bioinformatics*, 08-19 December 2004, Bitola, Macedonia, in the framework of the DAAD project "Centre of Excellence for Applications of Mathematics", organized by Institute of Mathematics, Faculty of Natural Sciences and Mathematics, Skopje, Macedonia
- Intensive Course *Wavelet Analysis and Signal Processing*, 24 September - 12 October 2001, Sofia, Bulgaria, in the framework of the DAAD project "Centre of Excellence for Applications of Mathematics", organized by Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Bulgaria

PRESENTED WORK ON CONFERENCES AND SEMINARS

- Second seminar Mathematics and applications, Skopje, Macedonia, December 2017
I. Stojkovska, *Benford's law for the first significant digit*
- First seminar Mathematics and applications, Skopje, Macedonia, December 2016
I. Stojkovska, *Traveling salesman problem*
- VI Congress of Mathematicians of Macedonia, Ohrid, Macedonia, 2016, M. Kresoja, M. Dimovski, **I. Stojkovska**, Z. Luzanin, *Stochastic approximation with adaptive step sizes for optimization in noisy environment and its application in regression models*

IRENA STOJKOVSKA CURRICULUM VITAE

- VI Congress of Mathematicians of Macedonia, Ohrid, Macedonia, 2016, F. Nikolovski, **I. Stojkovska**, *Complex-step gradient approximation and performance analysis of nonmonotone optimization algorithms in noisy environment* (presented by Filip Nikolovski)
- VI Congress of Mathematicians of Macedonia, Ohrid, Macedonia, 2016, M. Dimovski, **I. Stojkovska**, *Regularized least-square optimization method for variable selection in regression models* (presented by Marko Dimovski)
- VI Congress of Mathematicians of Macedonia, Ohrid, Macedonia, 2016, G. Nikolovska, **I. Stojkovska**, *Algebraic Strategies for Predictions in Elementary Mathematics Education*(presented by Gordana Nikolovska)
- VI Congress of Mathematicians of Macedonia, Ohrid, Macedonia, 2016, B. Shuminoska, **I. Stojkovska**, *Mathematical modeling in mathematics education through solving realistic Fermi problems* (presented by Biljana Shuminoska)
- V Congress of Mathematicians of Macedonia, Ohrid, Macedonia, 2014, N. Krejic, Z. Luzanin, Z. Ovcin, **I. Stojkovska**, *Performance of descent stochastic line search methods for unconstrained optimization in noisy environment*
- V Congress of Mathematicians of Macedonia, Ohrid, Macedonia, 2014, N. Krejic, Z. Luzanin, F. Nikolovski, I. Stojkovska, *A Line Search Method with Memory for Optimization of Noisy Functions* (presented by Filip Nikolovski)
- Fifth International Scientific Conference - FMNS2013, Blagoevgrad, Bulgaria, 2013, F. Nikolovski, **I. Stojkovska**, *New derivative-free nonmonotone line search methods for unconstrained minimization* (presented by Filip Nikolovski)
- GAMM 2013 - Novi Sad, Serbia, 2013, N. Krejic, Z. Luzanin, Z. Ovcin, **I. Stojkovska**, *Descent Direction Method with Line Search for Unconstrained Optimization in Noisy Environment*
- Mathematical Conference 2010 - Dedicated to Profesor Gorgi Cupona, Ohrid, Macedonia, 2010, N. Krejic, Z. Luzanin, **I. Stojkovska**, *Stochastic methods for optimization of (s,S) inventory systems*
- MASSEE International Congress of Mathematics MICOM2009, Ohrid, Macedonia, 2009, Z. Luzanin, **I. Stojkovska**, *One Result for Superlinear Local Convergence of Gauss-Newton-based BFGS Method with Filter*
- III Congress of Mathematicians of Macedonia, Struga, Macedonia, 2005, **I. Trajkovska**, *Minimax theorem and duality in mathematical programming*
- II Congress of Mathematicians and Informaticians of Macedonia, Ohrid, Macedonia, 2000, R. Malceski, A. Malceski, **I. Trajkovska**, *Osvrt na temata kompleksni broevi vo II godina vo prirodno-matematicka gimnazija*

SCIENTIFIC PUBLICATIONS

- F. Nikolovski, **I. Stojkovska**, *Complex-step derivative approximation in noisy environment*, Journal of Computational and Applied Mathematics, Vol. 327 (2018), pp. 64-78, DOI: 10.1016/j.cam.2017.05.046
- M. Kresoja, Z. Luzanin, **I. Stojkovska**, *Adaptive Stochastic Approximation Algorithm*, Numerical Algorithms, Vol. 76, No. 4 (2017), pp. 917-937, DOI: 10.1007/s11075-017-0290-4
- M. Dimovski, **I. Stojkovska**, *Regularized least-square optimization method for variable selection in regression models*, Matematchki Bilten, Vol. 41, No. 1 (2017), pp. 80-100

IRENA STOJKOVSKA CURRICULUM VITAE

- M. Kresoja, M. Dimovski, **I. Stojkovska**, Z. Luzanin, *Stochastic approximation with adaptive step sizes for optimization in noisy environment and its application in regression models*, Matematički Bilten, Vol. 41, No. 1 (2017), pp. 62-79
- G. Nikolovska, **I. Stojkovska**, *Algebraic Strategies for Predictions in Elementary Mathematics Education*, Matematički Bilten, Vol.40, No. 2 (2016), pp. 125-137
- N. Krejic, Z. Luzanin, F. Nikolovski, **I. Stojkovska**, *A Line Search Method with Memory for Optimization of Noisy Functions*, Proceedings of the V Congress of Mathematicians of Macedonia, September 24-27, 2014, Ohrid, R. Macedonia, Volume 2 (2015), pp 15-25
- N. Krejic, Z. Luzanin, Z. Ovcin, **I. Stojkovska**, *Descent Direction Method with Line Search for Unconstrained Optimization in Noisy Environment*, Optimization Methods and Software, Volume 30, Issue 6 (2015), pp 1164-1184, DOI: 10.1080/10556788.2015.1025403
- N. Krejic, Z. Luzanin, F. Nikolovski, **I. Stojkovska**, *A Nonmonotone Line Search Method for Noisy Minimization*, Optimization Letters, Volume 9, Issue 7 (2015), pp 1371-1391, DOI: 10.1007/s11590-015-0848-9
- A. Taleizadeh, **I. Stojkovska**, D. Pentico, *An Economic Order Quantity Model with Partial Backordering and Incremental Discount*, Computers & Industrial Engineering 82 (2015), pp.21-32, DOI:10.1016/j.cie.2015.01.005
- S. Janicijevic, Z. Luzanin, S. Pereverzyev, **I. Stojkovska**, A. Tepavcevic, *ESG199 report: Credit scorecard for Corporate Clients based on industries*, ESG199, 3-7 February 2014, Novi Sad, Serbia
- **I. Stojkovska**, *Mathematical programming approach to the optimality of the solution for deterministic inventory models with partial backordering*, Advances in Operations Research, Vol. 2013 (2013), Article ID 272648, 7 pages
- F. Nikolovski, **I. Stojkovska**, *New derivative-free nonmonotone line search methods for unconstrained minimization*, Proceedings of the Fifth International Scientific Conference - FMNS2013, Vol.1 Mathematics and Informatics (2013), pp.47-53
- **I. Stojkovska**, *A derivative-free filter method with local variations for systems of nonlinear equations*, Godisen Zbornik na Institut za Matematika, Prirodno-matematički fakultet, Univerzitet "Sv. Kiril i Metodij"-Skopje, Vol. 42 (2013), pp.81-93
- **I. Stojkovska**, *On the optimality of the optimal policies for the deterministic EPQ with partial backordering*, Omega, The International Journal of Management Science, Vol.41, No.5 (2013), pp.919-923
- N. Krejic, Z. Luzanin, **I. Stojkovska**, *A gradient method for unconstrained optimization in noisy environment*, Applied Numerical Mathematics, Vol.70 (2013), pp.1-21
- Z. Luzanin, **I. Stojkovska**, *One Result for Superlinear Local Convergence of Gauss-Newton-based BFGS Method with Filter*, presented at MASSEE International Conference on Mathematics MICOM-2009, published in Mathematica Balkanica, New Series Vol. 26, Fasc. 3-4 (2012), pp.409-419
- N. Krejic, Z. Luzanin, **I. Stojkovska**, *Gauss-Newton-based BFGS method with filter for unconstrained minimization*, Applied Mathematics and Computation, Vol.211, No.2 (2009), pp.354-362

REVIEWER

- Mathematical Reviews, American Mathematical Society
- Hacettepe Journal of Mathematics and Statistics, HACETTEPE UNIVERSITY FACULTY OF SCIENCE
- International Journal of Management Science and Engineering Management, Taylor & Francis
- Omega, The International Journal of Management Science, Elsevier
- Journal of Computational and Applied Mathematics, Elsevier
- Journal of Industrial Engineering International, Springer
- Matematicki Bilten, SMM
- Computational and Applied Mathematics, Springer

POPULAR PUBLICATIONS

PRINTED ARTICLES

- B. Suminoska, **I. Stojkovska**, *Matematičko modeliranje i zadaci na Fermi vo nastavata po matematika*, Trudovi za nastavata po matematika od Prvot seminar "Matematika i primeni", Prilog od Rabotilnicata "Matematikata i predviduvanjata" 11 maj 2016 god., Matematicki omnibus 2 (2017), 147-169 (in Macedonian)
- M. Ilievska, G. Nikolovska, **I. Stojkovska**, *Strategii za predviduvanja vo nastavata po matematika*, Trudovi za nastavata po matematika od Prvot seminar "Matematika i primeni", Prilog od Rabotilnicata "Matematikata i predviduvanjata" 11 maj 2016 god., Matematicki omnibus 2 (2017), 125-145 (in Macedonian)
- **I. Stojkovska**, *Neki algoritmi za resavanje na zadacata na patuvackiot trgovec*, Naucno-popularni trudovi od Prvot seminar "Matematika i primeni", Matematicki omnibus 1 (2017), 101-113 (in Macedonian)
- **I. Stojkovska**, *Karierni moznosti za matematicarite*, Sigma, Skopje, Vol. 35/1, 2014/2015 (1-8) (in Macedonian)
Link: <http://karijera-im-pmf.weebly.com/sto-moze-da-raboti-eden-matematicar.html>
- **I. Stojkovska**, *Numericki metodi za resavanje na ravenki so edna nepoznata*, Sigma, Skopje, Vol. 33/4, 2012/2013 (47-53) (in Macedonian)
- **I. Stojkovska**, *Linearno programiranje. Primeni*, Numerus, Skopje, Vol. 36/4, 2010/2011 (in Macedonian)
- **I. Stojkovska**, *Linearno programiranje. Geometriski pristap*, Numerus, Skopje, Vol. 36/3, 2010/2011 (in Macedonian)
- **I. Stojkovska**, *Linearno programiranje. Voved. Sistemi linearni neravenstva*, Numerus, Skopje, Vol. 36/2, 2010/2011 (in Macedonian)
- **I. Stojkovska**, *Razbiranje na cetirite osnovni sredini (2 del)*, Numerus, Skopje, Vol. 34/2, 2008/2009 (1-5) (in Macedonian)
- **I. Stojkovska**, *Razbiranje na cetirite osnovni sredini (1 del)*, Numerus, Skopje, Vol. 34/1, 2008/2009 (1-5) (in Macedonian)

IRENA STOJKOVSKA CURRICULUM VITAE

- N. Shekutkovski, **I. Stojkovska**, *Rubrika Za mladite programeri*, Numerus, Skopje Vol.33/3,4 2007/2008 (in Macedonian)
- N. Shekutkovski, **I. Stojkovska**, *Rubrika Za mladite programeri*, Numerus, Skopje Vol.32/3,4, 2006/2007; Vol.33/1,2 2007/2008 (in Macedonian)
- **I. Stojkovska**, *Neravenstva so verovatnosti na nastani*, Sigma, Skopje, Vol. 27/4, 2006/2007 (12-17) (in Macedonian)
- N. Shekutkovski, **I. Stojkovska**, *Rubrika Za mladite programeri*, Numerus, Skopje Vol.32/1,2, 2006/2007 (in Macedonian)
- **I. Trajkovska**, *Paradoksi*, Sigma, Skopje, Vol. 24/1, 2003/2004, (1-8) (in Macedonian)

E-ARTICLES (POIM)

- **I. Stojkovska**, *Matematski pogled na koincidenite*, Portal POIM na Institutot za matematika, PMF, Skopje, 29 dekemvri 2017, <http://poim-pmf.weebly.com/matematski-pogled-na-koincidenite.html> (in Macedonian)
- **I. Stojkovska**, *Zadacata na patuvackiot trgovec - ednostavna formulacija, sitoka primena, teska za resavanje*, Portal POIM na Institutot za matematika, PMF, Skopje, 25 juli 2017, <http://poim-pmf.weebly.com/zadacata-na-patuvackiot-trgovec.html> (in Macedonian)
- V. Celakoska-Jordanova, **I. Stojkovska**, *Kako se procenuva brojot na luge na javni sobiri*, Portal POIM na Institutot za matematika, PMF, Skopje, 18 januari 2017, <http://poim-pmf.weebly.com/kako-se-procenuva-brojot-na-lugje-na-javni-sobiri.html> (in Macedonian)
- **I. Stojkovska**, *Matematikata - minato, segasnost i idnina na predviduvanjata*, Portal POIM na Institutot za matematika, PMF, Skopje, 8 april 2016, <http://poim-pmf.weebly.com/matematikata---minato-segasnost-i-idnina-na-predviduvanjata.html> (in Macedonian)
- **I. Stojkovska**, *Neresena misterija: Nizite "zrno grad"*, Portal POIM na Institutot za matematika, PMF, Skopje, 21 avgust 2015, <http://poim-pmf.weebly.com/nizite-zrno-grad.html> (in Macedonian)
- **I. Stojkovska**, *Zosto tigrice imaat linii?*, Portal POIM na Institutot za matematika, PMF, Skopje, 2 juli 2015, <http://poim-pmf.weebly.com/zosto-tigrice-imaat-linii.html> (in Macedonian)
- **I. Stojkovska**, *Matematika vo umetnosta: Crtanje na luge*, Portal POIM na Institutot za matematika, PMF, Skopje, 17 juni 2015, <http://poim-pmf.weebly.com/crtanje-luge.html> (in Macedonian)
- **I. Stojkovska**, *Tangrami: Pogled kon matematikata na eden kreativen nacin*, Portal POIM na Institutot za matematika, PMF, Skopje, 11 januari 2015, <http://poim-pmf.weebly.com/tangrami.html> (in Macedonian)
- J. Markoska, **I. Stojkovska**, *Paradoksi: Koga vistinata e laga, a lagata e vistina*, Portal POIM na Institutot za matematika, PMF, Skopje, 28 dekemvri 2014, <http://poim-pmf.weebly.com/paradoksi.html> (in Macedonian)

IRENA STOJKOVSKA CURRICULUM VITAE

- **I. Stojkovska**, *Zabluda na obvinotelot*, Portal POIM na Institutot za matematika, PMF, Skopje, 24 noemvri 2014, <http://poim-pmf.weebly.com/zabluda-na-obvinotelot.html> (in Macedonian)

E-ARTICLES (Matematika+)

- **I. Stojkovska**, *Koja e Kohovata snegulka*, Matematika +, 11 januari 2018, <https://matematika-plus.weebly.com/koja-e-kohovata-snegulka.html>
- **I. Stojkovska**, *Sostavuvanje figuri od tangram*, Matematika +, 5 januari 2018, <https://matematika-plus.weebly.com/sostavuvanje-figuri-od-tangram.html>
- E. Zekiri, B. Shuminoska, **I. Stojkovska**, *Sto e matematicko modeliranje*, Matematika +, 13 dekemvri 2017, <https://matematika-plus.weebly.com/sto-e-matematicko-modeliranje.html>
- G. Nikolovska, **I. Stojkovska**, *Sablони i nizi od broevi*, Matematika +, 12 oktombri 2017, <https://matematika-plus.weebly.com/sablони-i-nizi-od-broevi.html>
- **I. Stojkovska**, *Metod na otsecki*, Matematika +, 30 avgust 2017, <http://matematika-plus.weebly.com/metod-na-otsecki.html> (in Macedonian)
- **I. Stojkovska**, *Sto se spiraloagolnici*, Matematika +, 21 avgust 2017, <http://matematika-plus.weebly.com/sto-se-spiraloagolnici.html> (in Macedonian)
- **I. Stojkovska**, *Ljubopitnosta i matematikata*, Matematika +, 18 avgust 2017, <http://matematika-plus.weebly.com/ljubopitnosta-i-matematikata.html> (in Macedonian)
- **I. Stojkovska**, *Sto se egipetski dropki*, Matematika +, 17 maj 2017, <http://matematika-plus.weebly.com/sto-se-egipetski-dropki.html> (in Macedonian)
- **I. Stojkovska**, *Kako se rodila nizata Fibonacievi broevi*, Matematika +, 30 mart 2017, <http://matematika-plus.weebly.com/kako-se-rodila-nizata-fibonacievi-broevi.html> (in Macedonian)
- **I. Stojkovska**, *Makedonskata azbuka i matematikata - definiranje na matematicki poimi*, Matematika +, 24 januari 2017, <http://matematika-plus.weebly.com/makedonskata-azbuka-i-matematikata-definiranje-na-matematicki-poimi.html> (in Macedonian)
- **I. Stojkovska**, *Matematikata vo kujna*, Matematika +, 15 januari 2017, <http://matematika-plus.weebly.com/matematikata-vo-kujna.html> (in Macedonian)
- **I. Stojkovska**, *Sto e faktoriel*, Matematika +, 11 januari 2017, <http://matematika-plus.weebly.com/sto-e-faktoriel.html> (in Macedonian)
- **I. Stojkovska**, *Kako da presmetate vo koj den od nedelata ste rodeni*, Matematika +, 19 dekemvri 2016, <http://matematika-plus.weebly.com/kako-da-presmetate-vo-koj-den-od-nedelata-ste-rodeni.html> (in Macedonian)
- **I. Stojkovska**, *Nekoi fakti za brojot eden*, Matematika +, 16 noemvri 2016, <http://matematika-plus.weebly.com/brojot-eden-nekoi-fakti.html> (in Macedonian)
- **I. Stojkovska**, *Kako deteto da nauci da cita so pomos na matematikata i prirodnite nauki*, Matematika +, 13 noemvri 2016, <http://matematika-plus.weebly.com/kako-deteto-da-nauci-da-cita-so-pomos-na-matematikata-i-prirodnite-nauki.html> (in Macedonian)

IRENA STOJKOVSKA CURRICULUM VITAE

- **I. Stojkovska**, *Kako lugeto go belezat broenjeto*, Matematika +, 3 noemvri 2016, <http://matematika-plus.weebly.com/kako-lugeto-go-belezat-broenjeto.html> (in Macedonian)
- **I. Stojkovska**, *Kako deteteto (povtorno) da ja zasaka matematikata*, Matematika +, 25 maj 2016, <http://matematika-plus.weebly.com/kako-deteto-povtorno-da-ja-zasaka-matematikata.html> (in Macedonian)
- **I. Stojkovska**, *Matematika vo priroda*, Matematika +, 30 april 2016, <http://matematika-plus.weebly.com/matematika-vo-priroda.html> (in Macedonian)
- **I. Stojkovska**, *April 2016 - Mesec na idninata na predviduvanjeto (Igra na predviduvanje so kocki)*, Matematika +, 12 april 2016, <http://matematika-plus.weebly.com/igra-na-predviduvanje-so-kocki.html> (in Macedonian)

PRINTED BOOKS

- V. Celakoska-Jordanova (urednik), **I. Stojkovska** (urednik), *Trudovi za nastavata po matematika od Prviot seminar "Matematika i primeni"*, Matematički omnibus Kn.2, 2017 (in Macedonian)
On-line access: <http://im-pmf.weebly.com/matematicki-omnibus-kniga-2.html>
- V. Celakoska-Jordanova (urednik), **I. Stojkovska** (urednik), *Naucno-popularni trudovi od Prviot seminar "Matematika i primeni"*, Matematički omnibus Kn.1, 2017 (in Macedonian)
On-line access: <http://im-pmf.weebly.com/matematicki-omnibus-kniga-1.html>
- (grupa avtori) *Sigmira riznica, Megunaroden natprevar Kengur*, 2006-2010, SMM, Skopje, 2010 (in Macedonian)
- (grupa avtori) *Macedonian mathematical competitions 2008*, Macedonian Mathematical Society, Skopje, 2008
- (grupa avtori) *Macedonian mathematical competitions 2007*, Union of Mathematicians in Macedonia, Skopje, 2007
- **I. Trajkovska**, G. Markoski, R. Malceski, *Odbрани zadaci po elementarna algebra*, Numerus, Skopje, 2003 (in Macedonian)
- B. Piperevski, R. Malceski, A. Malceski, **I. Trajkovska**, *Izbrani soдрzini od elementarna matematika II*, SMM, Skopje, 2001 (in Macedonian)

OTHER ACTIVITIES

- Member of the Selection Problem Committee for the National Mathematics Competitions for elementary and high school students (2000-2008)
- Coordinator at JBMO 2000, Ohrid, Macedonia
- Leader of the Macedonian team at JBMO 2002, Tirgu Mures, Romania
- Leader of the Macedonian team at IMO 2003, Tokyo, Japan
- Leader of the Macedonian team at BMO 2005, Iasi, Romania
- Coordinator at JBMO 2014, Ohrid, Macedonia
- Coordinator at SEEMOUS 2015, Ohrid, Macedonia
- Coordinator at SEEMOUS 2017, Ohrid, Macedonia

IRENA STOJKOVSKA CURRICULUM VITAE

- Coordinator at BMO 2017, Ohrid, Macedonia

AWARDS

- 2016, Charles Broyden prize for the best OMS publication in 2015. Awarded paper is Natasa Krejic, Zorana Luzanin, Zoran Ovcin, Irena Stojkovska, "Descent direction method with line search for unconstrained optimization in noisy environment", Optimization Methods and Software, Volume 30, Issue 6 (2015), pp 1164-1184 <http://explore.tandfonline.com/page/est/charles-broyden-prize>
- 2015, The second most successful IMACS (International Association for Mathematics and Computers in Simulation) paper published in 2013 in Applied Numerical Mathematics for the paper Natasa Krejic, Zorana Luzanin, Irena Stojkovska, "A gradient method for unconstrained optimization in noisy environment", Vol. 70, Pages 1-21 (IMACS award 2014)
- 2014, One of the ten scientists from Ss. Cyril and Methodius University in Skopje, with the highest results in scientific research in 2013 http://www.ukim.edu.mk/mk_content.php?meni=161&glavno=40
- 1999, The best graduated student in 1998/1999 academic year at Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University in Skopje
- 1998, Third prize at 5th International Mathematics Competition for University Students (IMC 1998) held in Blagoevgrad, Bulgaria from 29 July to 3 August 1998
- 1988 - 1995, Prizes on National Mathematics Competitions for Elementary and High School Students