

ГРАДИМИР В. МИЛОВАНОВИЋ

М10: МОНОГРАФИЈЕ И МОНОГРАФСКЕ СТУДИЈЕ (укупно: 203 поена)

М11 (1+1)

1. G. Mastroianni, **G.V. Milovanović**: *Interpolation Processes - Basic Theory and Applications*, Springer Monographs in Mathematics, Springer – Verlag, Berlin – Heidelberg, 2008, XIV+444 pp.
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М13 (28+2)

1. **G.V. Milovanović**, M.P. Stanić: *Multiple orthogonality and applications in numerical integration*, In: *Nonlinear Analysis: Stability, Approximation, and Inequalities* (P. Georgiev, P.M. Pardalos, H.M. Srivastava, eds.), Series: Springer Optimization and its Applications, Vol. 68, Springer Verlag, Berlin - Heidelberg - New York, 2012.
2. **G.V. Milovanović**: *Summation processes and Gaussian quadratures*, In: *Spomenica akademika Veselina Perica*, pp. 267 – 285, ANURS, Odeljenje prirodno-matematičkih i tehničkih nauka, Knj. 15, Banja Luka, 2011.
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4. G. Mastroianni, **G.V. Milovanović**: *Weighted interpolation of functions with isolated singularities*, In: *Approximation Theory: A volume dedicated to Blagovest Sendov* (B. Bojanov, ed.), pp. 310 – 341, DARBA, Sofia, 2002.
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 10. **G.V. Milovanović, I.Ž. Milovanović:** *Discrete inequalities of Wirtinger's type*, In: Recent Progress in Inequalities (G.V. Milovanović, ed.), Mathematics and Its Applications, Vol. 430, pp. 289 – 308, Kluwer, Dordrecht, 1998.
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- I. ***ANALYTIC NUMBER THEORY, APPROXIMATION THEORY AND SPECIAL FUNCTIONS***, Springer Verlag, Berlin –Heidelberg – New York, 2012 (jointly K. Alladi and M. Th. Rassias).
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M20: РАДОВИ МЕЂУНАРОДНОГ ЗНАЧАЈА

(укупно: 723 поена)

M21 (36+24)

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2. **G.V. Milovanović**: *Generalized quadrature formulae for analytic functions*, Appl. Math. Comput. **218** (2012), 8537 – 8551.
3. **G.V. Milovanović**, A.S. Cvetković, M. Stanić: *A generalized Birkhoff-Young-Chebyshev quadrature formula for analytic functions*, Appl. Math. Comput. **218** (2011), 944 – 948.
4. **G.V. Milovanović**, M.Č. Stefanović, S.R. Panić, J.A. Anastasov, D.S. Krstić: *Statistical analysis of the square ratio of two multivariate exponentially correlated α - μ distributions and its application in telecommunications*, Math. Comput. Modelling **54** (2011), 152 – 159.
5. M. Masjed-Jamei, **G.V. Milovanović**, M.A. Jafari: *Explicit forms of weighted quadrature rules with geometric nodes*, Math. Comput. Modelling **53** (2011), 1133 – 1139.
6. **G.V. Milovanović**, A.S. Cvetković: *Gaussian quadrature rules using function derivatives*, IMA J. Numer. Anal. **31** (2011), 358–377.
7. A.S. Cvetković, **G.V. Milovanović**: *On Drazin inverse of operator matrices*, J. Math. Anal. Appl. **375** (2011), 331 – 335.
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M22 (11+4)

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M23 (11+9)

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M32 (11+4)

M40: НАЦИОНАЛНЕ МОНОГРАФИЈЕ

(укупно: 19 поена)

M41 (1+1)

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M42 (1+0)

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M50: НАЦИОНАЛНИ ЧАСОПИСИ

(укупно: 116 поена)

M51 (55 = 49 + 6)

[Stari radovi iz perioda 1973 - 1982, navedeni pod brojevima 35-55 (UKUPNO: 21) objavljeni su u časopisu koji je danas na SCI listi u kategoriji M22]

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M52 (6+0)

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59. **G.V. Milovanović**, M.R. Milošević: *Quadrature formulas of Radau type on $(0, +\infty)$* , J. Electrotehn. Math. **1** (1996), 57 – 64.
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M60: НАЦИОНАЛНИ СКУПОВИ

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2. **G.V. Milovanović**, P.M. Rajković: *Some considerations about complex orthogonal polynomials*, In: VII Conference on Applied Mathematics (Osijek, 1989), pp. 163 – 170, Univ. Osijek, Osijek, 1990.
3. M.A. Kovačević, **G.V. Milovanović**: *Spline approximation on the half line*, In: VI Conference on Applied Mathematics (Tara, 1988), pp. 88 – 95, Univ. Belgrade, Belgrade, 1989.
4. **G.V. Milovanović**, M.S. Petković: *Computational efficiency of the simultaneous methods for finding polynomial zeros: Estimation of efficiency*, In: Numerical methods and approximation theory, II (Novi Sad, 1985), pp. 83 – 87, Univ. Novi Sad, Novi Sad, 1985.
5. M.S. Petković, **G.V. Milovanović**: *Computational efficiency of the simultaneous methods for finding polynomial zeros: Comparison of various algorithms*, In: Numerical methods and approximation theory, II (Novi Sad, 1985), pp. 89 – 94, Univ. Novi Sad, Novi Sad, 1985.
6. **G.V. Milovanović**, M.A. Kovačević: *Least squares approximation with constraint: Generalized Gegenbauer case*, In: Numerical methods and approximation theory, II (Novi Sad, 1985), pp. 187 – 194, Univ. Novi Sad, Novi Sad, 1985.
7. **G.V. Milovanović**, S. Wrigge: *On the least squares approximation with constraints*, In: IV conference on applied mathematics (Split, 1984), pp. 103 – 108, Univ. Split, Split, 1985.
8. W. Gautschi, **G.V. Milovanović**: *On a class of complex polynomials having all zeros in a half disc*, In: Numerical methods and approximation theory (Niš, 1984), pp. 49 – 53, Univ. Niš, Niš, 1984.

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2. M.D. Mihajlović, E.I. Milovanović, **G.V. Milovanović**, I.Ž. Milovanović: *A divide and conquer method for solving tridiagonal system of equations*, In: PRIM '96 (Budva), pp.

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3. **G.V. Milovanović**, P. Stanimirović: *Block representation of the group inverse*, In: Proceedings of the II Mathematical Conference in Priština (Priština, 1996) (Lj.D. Kočinac, ed.), pp. 79 – 88, University of Priština, Priština, 1997.
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2. ОСТАЛИ ПОКАЗАТЕЉИ УСПЕХА

Уводна предавања на конференцијама:

Као пленарни или предавач по позиву учествовао је на више од 30 међународних скупова, на пример,

1. **Special Functions, Approximation, Numerical Quadratures, and Orthogonal Polynomials**, dedicated to 65th birthday of Walter Gautschi (1993, Purdue University, USA);
2. **Djrbashian Memorial Conference-98** (1998, Yerevan, Armenia);
3. **Workshop on Applications and Computation of Orthogonal Polynomials** (1998, Oberwolfach, Germany);
4. **Functional Analysis and Approximation Theory – FAAT 2000** (2000, Acquafredda di Maratea, Italy);
5. **Orthogonal Functions and Related Topics** in honor of Professor Olav Njåstad (2003, Røros, Norway);
6. **Functional Analysis and Approximation Theory – FAAT 2004** (2004, Acquafredda di Maratea, Italy);
7. **South African Society for Numerical and Applied Mathematics – SANUM 2005** (2005, University of Stellenbosch, South Africa);
8. **Numerical Analysis and Approximation Theory – NAAT 2006** (2006, Cluj-Napoca, Romania);
9. **Numerical Methods and Applications – NM&A'06** (2006, Borovets, Bulgaria);
10. **Constructive Theory of Functions** (2008, Campos do Jordão, Brasil);
11. **Approximation Theory**, dedicated to the 70th Birthday of József Szabados (2008, Alfréd Rényi Institute of Mathematics, Budapest, Hungary);
12. **Functional Analysis and Approximation Theory – FAAT 2009** (2009, Acquafredda di Maratea, Italy);
13. **Numerical Analysis and Approximation Theory – NAAT 2010** (2010, Cluj-Napoca, Romania);
14. **Scientific Computing SC2011** (2011, S. Margherita di Pula, Sardinia, Italy); **6th International Conference “Transform Methods & Special Functions 2011”** (2011, Sofija, Bugarska);
15. **The Joint International Congress of the American and South African Mathematical Societies** (2011, Port Elizabeth, South Africa).

Одбори међународних и домаћих конференција:

Главни организатор међународних конференција:

Numerical Methods and Approximation Theory I, II, III (Ниш 1984, Нови Сад 1985, Ниш 1986);

Конгреси југословенских и српских математичара (члан Програмског комитета)

Mitrinovic Memorial Conference (Ниш, 1996)

International Conference CONSTRUCTIVE THEORY OF FUNCTIONS – 2010
SOZOPOL, June 3 - 10, 2010 (Program Committee)

Линк: <http://www.math.bas.bg/mathmod/CTF-2010/>

Велики број локалних конференција из области примењене и нумеричке математике и информационих технологија у Србији и бившој Југославији (члан Програмског комитета).

Уређивање тематских зборника, часописа и колективних дела

Уређивачки рад у специјалним бројевима часописа

- Editor of **Special issue on *Orthogonal Systems and Applications*** in the journal [Applied Mathematics and Computation](#) (Vol. 128, Issue 2-3, 2002)

Уређивање колективних дела

- ***Proceedings of the Eight Symposium of Mathematics and its Applications***. Papers from the Symposium held at the Electrical Engineering Faculty, Department of Mathematics, Timisoara, România, November 4–7, 1999, Bul. St. Univ. Politehnica Timisoara, România, 1999 (N. Boja, P. Corsini, P. Gavruta, G.V. Milovanovic, eds.).
- ***Recent Progress in Inequalities***. A volume dedicated to Profesor D. S. Mitrinovic (G.V. Milovanovic, ed.), Series: Mathematics and Its Applications, Vol. 430, Kluwer Academic Publishers, Dordrecht, 1998, XII + 532 pp. ISBN: 978-0-7923-4845-0 [Link: <http://www.springer.com/mathematics/analysis/book/978-0-7923-4845-0>]
- ***Numerical Methods and Approximation Theory III*** (G.V. Milovanovic, ed.), Papers from the Conference held at the University of Nis, Nis, August 18–21, 1987, University of Niš, Faculty of Electronic Engineering, Niš, 1988, XII+436 pp.
- ***Numerical Methods and Approximation Theory***. Papers from the Conference held at the University of Niš, Niš, September 26 – 28, 1984, University of Niš, Faculty of Electronic Engineering, Niš, 1984, IV+200 pp.

РЕЦЕНЗИЈЕ У МЕЂУНАРОДНИМ ЧАСОПИСИМА

Велики број рецензија, у просеку 20 годишње, за доле наведене часописе, укључујући и све домаће математичке часописе:

- SIAM J. Math. Anal.,
- SIAM J. Numer. Anal.,
- Appl. Math. Comp.
- Math. Comp.,
- J. Comput. Appl. Math.,
- J. Approx. Theory,
- J. Math. Anal. Appl.,
- Numer. Math.
- Computing
- Internat. J. Comput. Math.
- Comput. Math. Appl.
- Appl. Math. Letters
- East J. Approx.,
- Calcolo, итд.

Референт за часописе: *Mathematical Reviews* (САД) и *Zentralblatt für Mathematik* (Немачка)

Руковођење докторским дисертацијама:

1. **Ljiljana D. Petković**, *On some approximations by disks* (University of Kragujevac, 1985)
2. **Milan A. Kovačević**, *Approximation of some classes of functionals with respect to nonclassical weights* (University of Niš, 1987)
3. **Gospava B. Đorđević**, *Contribution to theory of polynomials defined by recurrence relations* (University of Niš, 1990)
4. **Predrag Stanimirović**, *Software package for calculation of generalized inverses* (University of Niš, 1996)
5. **Nenad P. Cakić**, *Generalizations and new representations of Stirling's numbers with an application to generation of new associated numbers and polynomials* (University of Niš, 1996)
6. **Miodrag M. Spalević**, *Numerical integration and some types of polynomial orthogonality* (University of Kragujevac, 1997)
7. **Đorđe R. Đorđević**, *Software system in numerical integration and cubatures of decomposition type* (University of Niš, 1997)
8. **Predrag M. Rajković**, *New types of orthogonality in theory of polynomials and their application* (University of Niš, 1998)
9. **Dojčin S. Petković**, *Convergence of Pade approximants and asymptotic properties of orthogonal polynomials* (University of Priština, 1998)
10. **Aleksandar S. Cvetković**, [*Nonstandard orthogonality and quadrature formulae*](#) (University of Niš, 2004)
11. **Marija Stanić**, [*Generalized quadratures of Gaussian type*](#) (University of Kragujevac, 2007)
12. **Zlatko Udovičić**, [*Splines in numerical integration*](#) (University of Sarajevo, 2010)

Руковођење магистрским тезама:

1. **Pija S. Mladenović**, *Contributions to theory of inequalities with applications in optimization problems* (University of Niš, 1981)
2. **Milan A. Kovačević**, *Contributions to theory and practice of iterative processes* (University of Niš, 1982)
3. **Biljana Milošević**, *Methods for numerical integration of holomorphic functions in the complex plane with applications* (University of Niš, 1983)
4. **Svetislav Č. Stojanović**, *Contributions to construction of Gaussian quadrature formulas* (University of Niš, 1984)
5. **Dragan Randelović**, *Contributions to theory and practice of economic difference schemes for nonstationary equations in mathematical physics* (University of Niš, 1984)
6. **Dragan Živković**, *Extremal problems of Markov's type for algebraic polynomials* (University of Niš, 1988)
7. **Predrag M. Rajković**, *Orthogonal complex polynomials and their application* (University of Niš, 1991)
8. **Miodrag M. Spalević**, *S-orthogonal polynomials and Turán quadratures* (University of Niš, 1994)
9. **Dojčin S. Petković**, *Pade approximation and applications* (University of Niš, 1995)
10. **Sladana D. Marinković**, *Polynomials of Jacobi type and applications* (University of Niš, 1995)
11. **Lidija Z. Rančić**, *Extremal problems on restricted polynomial classes in L^2 norm* (University of Niš, 1995)
12. **Mimica Milošević**, *Numerical integration and approximation in the class of rational functions* (University of Niš, 1997)
13. **Aleksandar S. Cvetković**, *Program package for symbolic and numerical construction of orthogonal polynomials and quadrature formulas* (University of Niš, 2002)
14. **Branislav M. Randelović**, *Approximation of linear functionals by*

- quadrature methods* (University of Niš, 2002)
15. **Marija Stanić**, *Nonstandard orthogonalities and corresponding quadratures of Gaussian type* (University of Kragujevac, 2003)
 16. **Diana Dolicanin**, *Periodic solutions of polynomial dynamic systems* (University of Niš, 2006)

Руководићење истраживачким пројектима (+ 2 TEMPUS пројекта)

1. Participant in the Project *Mathematics with Applications* (1986 – 1990)
2. Leader of a subproject in 0401 (Serbian Ministry of Science): *Contemporary Problems of Mathematics* (1991 – 1995)
3. Leader of the project 04M03 (Serbian Ministry of Science): [Methods and Models in Theoretical, Applied and Industrial Mathematics](#) (1996 – 2000)
4. Leader of the project # 2002 (Serbian Ministry of Science and Environmental Protection): *Applied Orthogonal Systems, Constructive Approximation and Numerical Methods* (2002 – 2005)
5. Leader of the project # 144004 (Serbian Ministry of Science and Technological Development): *Orthogonal Systems and Applications* (2006 – 2010)
6. Leader of the Serbian Team in SCOPES Joint Research Project No. IB7320-111079 (Swiss National Scientific Foundation): *New Methods for Quadrature* (2006 – 2008)
7. Leader of the project (Serbian Academy of Sciences and Arts): *Interpolation and Quadrature Processes Based on the Theory of Orthogonality* (2007 –)
8. Participant in the project # III 44006 (Serbian Ministry of Education and Science): *Development of New Information and Communication Technologies, Based on Advanced Mathematical Methods, with Applications in Medicine, Telecommunications, Power Systems, Protection of National Heritage and Education* (2011 – 2014)
9. Leader of the project # OI 174015 (Serbian Ministry of Education and Science): *Approximation of Integral and Differential Operators and Applications* (2011 – 2014)

Уређивачки одбори часописа:

1. Associate Editor of [Appl. Math. Comput. Applied Mathematics and Computation](#). Elsevier, Inc., New York, USA, ISSN 0096-3003;
2. Associate Editor of [Math. Probl. Eng. Mathematical Problems in Engineering, Theory, Methods, and Applications](#). Hindawi Publishing Corporation, New York, USA, ISSN 1024-123X, E-ISSN: 1563-5147;
3. Member of Editorial Board for [FILOMAT](#) (Formerly: **Zb. Rad.**). Faculty of Sciences and Mathematics, University of Niš, Niš, ISSN 0354-5180;
4. Member of Editorial Board of [Facta Univ. Ser. Math. Inform. Facta Universitatis. Series: Mathematics and Informatics](#). University of Niš, Niš, ISSN 0352-9665 [Founder and Editor-in-Chief in the period 1986-2008];
5. Editor-in-Chief [Publ. Inst. Math. \(Beograd\) \(N.S.\) Institut Mathématique. Publications. Nouvelle Série. Inst. Math.](#), Belgrade, ISSN 0350-1302;

6. Editor of [JIPAM, J. Inequal. Pure Appl. Math.](#) **JIPAM. Journal of Inequalities in Pure and Applied Mathematics.** Vic. Univ. Technol., Melbourne, Australia, ISSN 1443-5756;
7. Member of Advisory Board for [Banach J. Math. Anal.](#) **Banach Journal of Mathematical Analysis.** Tusi Mathematical Research Group (TMRG), Mashhad, Iran, ISSN 1735-8787 [2007 – 2010];
8. Member of Editorial Board for [East J. Approx.](#) **East Journal on Approximations.** Darba, Sofia, Bulgaria, ISSN 1310-6236;
9. Member of Editorial Board for [Math. Balkanica.](#) (N.S.). **Mathematica Balkanica.** New Series. Bulgar. Acad. Sci., Sofia, Bulgaria, ISSN 0205-3217;
10. Member of Editorial Board for [Armenian J. Math.](#) **Armenian Journal of Mathematics.** Electronic Open Access Publication of the National Academy of Sciences of Armenia, Yerevan, Armenia, ISSN 1829-1163;
11. Member of Editorial Board for [Rev. Anal. Numér. Théor. Approx.](#) **Revue d'Analyse Numérique et de Théorie de l'Approximation.** Ed. Acad. Romane, Bucharest, Romania, ISSN 1222-9024;
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14. Member of Editorial Board for [Novi Sad J. Math.](#) **Novi Sad Journal of Mathematics.** (Formerly: **Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak. Ser. Mat.**). Univ. Novi Sad, Novi Sad, ISSN 0352-0900;
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Стране и домаће награде и признања за научни dopринос

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- International Conference **Approximation and Computation**, Dedicated to Professor Gradimir V. Milovanović on the occasion of his 60th birthday, Niš, August 25-29, 2008.
- **Approximation and Computation – In Honor of Gradimir V. Milovanović** (W. Gautschi, G. Mastroianni, and Th.M. Rassias, Eds.), Series: Springer Optimization and Its Applications, Springer Verlag, Berlin – Heidelberg – New York, 2010 [XXII, 484 p. 47 illus., 16 in color.,

Hardcover, ISBN: 978-1-4419-6593-6; Springer link:
<http://www.springer.com/mathematics/book/978-1-4419-6593-6>

Уџбеници

1. Lj.M. Kocić, **G.V. Milovanović**, S.D. Marinković: *Operations Research*, University of Niš, Faculty of Electronic Engineering, Niš, 2008, X+204 pp. (Serbian).
2. P.S. Stanimirović, **G.V. Milovanović**, I.M. Jovanović: *Applications of Linear and Integer Programming*, University of Niš, Faculty of Science and Mathematics, Niš, 2008, X+298 pp. (Serbian).
3. **G. V. Milovanović**, Đ. R. Đorđević: *Numerical Methods in Computational Engineering*, University of Niš, Faculty of Civil Engineering and Architecture, Niš, 2007, X+180 pp.
4. R.Z. Djordjević, **G.V. Milovanović**: *Differential Equations - Systems of Equations and Partial Equations*, Faculty of Electronic Engineering, Niš, 2006, VIII+ 276 pp. (Serbian).
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6. **G.V. Milovanović**, R.Z. Djordjević: *Mathematical Analysis I*, Faculty of Electronic Engineering, Niš, 2005, X + 414 pp. (Serbian).
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8. **G.V. Milovanović**, M.A. Kovačević, M.M. Spalević: *Numerical Mathematics - A Collection of Solved Problems*, Faculty of Electronic Engineering, Niš, 2003, VIII+ 368 pp. (Serbian).
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