

Prof. Dr Predrag Rajković



Full Professor in Mathematics and Informatics

*(Special Functions, Numerical Analysis, Optimization,
Computer graphics and Programming)*

Home-page <http://math.masfak.ni.ac.rs/math/~PredragRajkovic/>
Office Location: 606a,

**Faculty of Mechanical Engineering,
University of Nis, Serbia
A. Medvedeva 14, 18 000 Nis, Serbia**

**Job-phone: +381-18-500-721
Fax: +381-18-588-244**

E-mail: pedja.rajk@yahoo.com,
pedja.rajk@gmail.com,
pedja.rajk@masfak.ni.ac.rs

RESEARCH INTERESTS

- ◆ *Special functions (MSC:33)
Q-calculus (basic hypergeometric functions), Special transformations*
- ◆ *Numerical Analysis (MSC: 65)
Orthogonal polynomials, Numerical integration, Approximation theory*
- ◆ *Combinatorics (MSC: 05)*
- ◆ *Computer graphics(MSC: 68U)*
- ◆ *Mathematical programming (MSC: 90C)*

WORK EXPERIENCE

- ◇ **2009. Full professor for mathematics and informatics**
(special functions, analysis, programming, geometry, optimization)
University of Nis, Faculty of Mechanical Eng., Department for Mathematics
- ◇ **2004. High assistant professor for mathematics and informatics**
(numerical analysis, programming and geometry)
University of Nis, Faculty of Mechanical Eng., Department for Mathematics
- ◇ **1999. Assistant Professor for Numerical Analysis,
Computer Programming and Geometry**
University of Nis, Faculty of Mechanical Eng., Department for Mathematics
- ◇ **1984. Research and teaching assistant for mathematics**
(Numerical Analysis, Computer Programming, Geometry and Calculus)
University of Nis, Faculty of Mechanical Eng., Department for Mathematics

EDUCATION

Doctoral Dissertation (1998)
“New Types of Orthogonality of Polynomials and Their Applications”
Scientific Area: Numerical Analysis
University of Niš, Faculty of Sciences and Mathematics.

Master’s Thesis (1991)
“Complex Orthogonal Polynomials and Their Applications”,
Scientific Area: Numerical Analysis, Approximating theory, Quadrature, Orthogonal Polynomials, Differential Equations, Programming.
University of Niš, Faculty of Sciences and Mathematics.

Bachelor of Mathematics (1983)
University of Niš, Faculty of Sciences and Mathematics.

INTERNATIONAL RESEARCH PROJECTS

- 1. Multimedia Technology for Mathematics and Computer Science Education, 2002.-2008.**
Partner in the project within the DAAD-Sonderprogramm Akademischer Neuaufbau Südosteuropa in the framework of the Stability Pact for South Eastern Europe (leader of the project: prof. dr Konrad Polthier)
- 2. Tempus project 145009-Tempus-2008-RS-JPHES, 2010-2012,**

Conversion Courses for Unemployed University Graduates in Serbia CONCUR.

- 3. Integral Transform Methods, Special Functions And Applications,**
(Project ID_02_2009), National Science Fund, Ministry of Education and Science of Bulgaria, Project Leader: Dr. Virginia Kiryakova, Bulgarian Academy of Sciences (as a foreign member of the team with other researchers from Bulgaria, Germany, Spain, Belarus).

SCHOLARSHIPS AND AWARDS

1. DAAD-scholarship, Germany

November-December, 2004. at University in Kassel, Germany

Host: prof. dr. Wolfram Koepf ,

AG Computational Mathematics Fachbereich Mathematik / Informatik

<http://www.mathematik.uni-kassel.de/~koepf/>

Theme: "On q-difference equations and their role in the investigation of the orthogonal polynomials and special number sequences"

2. DAAD-scholarship, Germany,

University in Kassel, Germany, 2008.

3. Foreign examiner for doctoral dissertation, Ireland, 2011

Waterford Insitute, candidate: Aoife Hennessy

Host: prof. dr Paul Barry

ADVISOR'S WORK

A) Advisor of doctoral dissertation in mathematics

1. candidate: mr Sladana D. Marinković,

The Applications Of The Basic Hypergeometric Functions In The Theory Of Orthogonality And Numerical Mathematics,

doctoral dissertation in mathematics, University of Niš, Faculty of Mathematics and Natural Sciences, Niš, 2005.

B) Coadvisor of doctoral dissertation in mathematics

2. candidate: Marko D. Petković,

The Symbolic Computing Of Hankel Determinants And Generalized Matrix Inverses,

doctoral dissertation in mathematics and informatics, University of Niš, Faculty of Mathematics and Natural Sciences, 2008.

C) Coadvisor of master thesis in mathematics

- 3. candidate: Savić Nataša, coadvisor,**
Generating Functions And Riordan Sequences With Applications On Hankel Determinants And Combinatorial Interpretation
Magister thesis in mathematics and informatics, University of Niš, Faculty of Mathematics and Natural Sciences, 2012.

D) Member of commissions for doctoral dissertations

1. **Marko Miladinović**, commission member for Ph. D thesis in mathematics and informatics, 2011., University of Niš.
2. **Aoife Hennessy**, commission foreign member for Ph. D thesis in mathematics and informatics, 2011., Waterford Insitute, Ireland.

REVIEWER

I am reiviewer for in the following journals:

1. Applied Mathematics and Compupation;
2. Journal of Computational and Applied Mathematics;
3. Mathematical Computation and Modelling;
4. Discrete Mathematical Analisys and Applications;
5. Fractional calculus and applied analysis;
6. Facta Universitatis;
7. FILOMAT
8. Mathematical Journal of Novi Sad

MONOGRAPHS AND BOOKS

- 1) **P.M. Rajkovic, S.D. Marinkovic and M.S. Stankovic**
Differential And Integral Calculus Of Basic Hypergeometric Functions
(monography) Nis, 2008.
(Mathematical Subject Classification:
33D15, 33D60, 33D45, 33C45, 39A13, 11B65, 26D15, 26A33, 30C15, 41A30)
- 2) **Lj. Petkovic, S.Trickovic and P.M. Rajkovic,**
A Collection Of Tasks In Numerical Mathematics,
Faculty of Mechanical Engineering, Nis, 1997.

PARTICIPATION IN SERBIAN SCIENTIFIC PROJECTS

- 1) *Dynamical Stability And Unstability Of Mechanical*
- 2) *Systems Under Stochastic Disruption*,
Project of Ministry of Republic Serbia, 2011-2014.
- 3) **Deterministic and stochastic stability of mechanical systems**,
Project of Ministry of Republic Serbia, 2006-2010.
- 4) **Stability and nonlinear oscillations of viscoelastic composite platforms**,
Project of Ministry of Republic Serbia, 2001-2005.
- 5) **Methods and Models in theoretical and Applied Mathematics**,
Project of Mathematical Institute of Republic Serbia, 1996 - 2001.
- 6) **Project of Faculty of Mechanical Engineering in Nis**, 1996-2001.
- 7) **Mathematics with Applications**, Project of Mathematical Institute of Republic Serbia, 1991-1995.

CONFERENCE ORGANAZING COMMITTEE

I was the member of organizing and scientific committee of the next conferences:

1. **MASHING** - The Second International Conference “Mechanical Engineering In The Xxi Century”, Nis, 2013.
2. **SAUM** - XI Conference on Systems, Automatic Control and Measure, Niš, 2012.
3. **MASHING** - The Second International Conference “Mechanical Engineering In The Xxi Century”, Nis, 2011.
4. **SAUM** - X Conference on Systems, Automatic Control and Measure, Niš, 2009.

PROFESSIONAL MEMBERSHIP

1. Serbian Society of Mathematics, Belgrade, Kneza Milosa 35, Serbia

PUBLICATIONS

Total: 84

- A) Papers published in refereed journals (SCI-list): 25
- B) Papers published in journals with international editorial board: 17
- C) Papers published in the proceedings of international conferences: 33
- D) Papers published in abstract-book of international conferences: 9

Cited by : 164

A) Papers published in refereed journals (SCI-list)

1. **Predrag M. Rajković** , Paul Barry and Marko D. Petković,
Sobolev orthogonal polynomials in computing of Hankel determinants,
Linear algebra and applications 437 (10) (2012), 2417–2428 (M21)
[Cited by 1](#)
2. Slađana D. Marinković, Miomir S. Stanković, **Predrag M. Rajković**,
Functions induced by iterated deformed Laguerre derivative: analytical and operational approach,
Abstract and Applied Analysis (2012) 1-17.
Hindawi Publishing Corporation Abstract and Applied Analysis Volume 2012,
Article ID 190726, 17 pages (M21)
3. Marko D. Petković, Paul Barry and **Predrag M. Rajković**,
Closed-form expression for Hankel determinants of the Narayana polynomials,
Czechoslovak Mathematical Journal, 62 (137) (2012), 39–57 (M23)
4. Miomir S. Stanković, Slađana D. Marinković, **Predrag M. Rajković**,
The deformed exponential functions of two variables in the context of various statistical mechanics,
Applied Mathematics and Computation 218 (2011) 2439–2448 (M21)
[Cited by 2](#)
5. Miomir S. Stanković, Slađana D. Marinković, **Predrag M. Rajković**,
Deformed and modified Mittag-Leffler polynomials,
Mathematical and Computer Modelling 54 (2011) 721–728. (M21)
[Cited by 3](#)
6. Marko D. Petković, **Predrag M. Rajković** and Paul Barry,
The Hankel transform of generalized central trinomial coefficients and related sequences,
Integral Transforms and Special Functions, Vol. 22, Issue 1 (2011), 29–44
(M22)
[Cited by 1](#)
7. Miomir S. Stanković, **Predrag M. Rajković**, Slađana D. Marinković,
On The Fractional q -Derivative Of Caputo Type,
Comptes rendus de l'Acad_emie bulgare des Sciences 63, No 2, 2010, 1-8. (M23)
8. **Paul Barry**, **Predrag M. Rajković** and **Marko D. Petković**,
An Application of Sobolev Orthogonal Polynomials to the Computation of a Special Hankel Determinant,
chapter of the book “Approximation and Computation” (In Honor of Gradimir V.

Milovanović) Series:

Springer Optimization and Its Applications, Vol. 42 (2010), pp. 1-8. (M13)

[Cited by 9](#)

9. **Predrag M. Rajković**, Slađana D. Marinković, Miomir S. Stanković,
A generalization of the concept of q -fractional integrals,
Acta Mathematica Sinica, English version, Vol. 25, No. 10 (2009), 1635-1646.
(M22)
[Cited by 5](#)
10. Bratislav Danković, **Predrag M. Rajković**, Slađana D. Marinković,
On a class of almost orthogonal polynomials,
Lecture Notes in Computer Science 5434, (M23) Numerical Analysis and its
Applications, Springer-Verlag
Berlin Heidelberg, (2009) 241—248. S. Margenov, L.G. Vulkov, and J.
Waśniewski (Eds.): NAA 2008
Proceedings of The Fourth Conference on Numerical Analysis and Applications,
June (2008), Lozenetz, Bulgaria.
[Cited by 6](#)
11. **Slađana D. Marinković**, **Predrag M. Rajković**, **Miomir S. Stanković**,
The inequalities for some types of q -integrals,
Computers and Mathematics with Applications 56 (2008) 2490–2498 (M21)
[Cited by 12](#)
12. **Ratko Pavlović**, **Predrag Rajković**, and **Ivan Pavlović**,
Almost Sure Stability of a Moving Elastic Band,
Journal of Applied Mechanics, July 2008, Volume 75, Issue 4, 041016 (M22)
13. **Ratko Pavlović**, **Predrag M. Rajković**, **I. Pavlović**,
*Dynamic stability of the viscoelastic rotating shaft subjected to random
excitation*,
International Journal of Mechanical Sciences, 50(2008), PP. 359-364. (M21)
[Cited by 7](#)
14. Wolfram Koepf, **Predrag M. Rajković**, Slađana D. Marinković,
Properties of q -Holonomic Functions,
Journal of Difference Equations and Applications, Vol. 13, No. 7 (2007), 621–
638. (M21)
[Cited by 2](#)
15. **Predrag M. Rajković**, M.D. Petković, P. Barry,
*The Hankel Transform of the Sum of Consecutive Generalized Catalan
Numbers*,
Integral Transforms and Special Functions, Vol. 18, Issue 4, 2007, 285--296.
(M22)
[Cited by 15](#)
16. Predrag Kozić, Ratko Pavlović, **Predrag M. Rajković**,

Moment Lyapunov Exponents and Stochastic Stability of a Parametrically Excited Oscillator,

Meccanica, Vol. 42 (2007) 323–330. (M22)

[Cited by 1](#)

17. Ratko Pavlović, Predrag Kozić, **Predrag M. Rajković** and I. Pavlović,
Dynamic Stability of a Thin-Walled Beam Subjected to Axial Loads and End Moments,
Journal of Sound and Vibration 301 (2007) 690–700) (M21)
[Cited by 7](#)
18. Miloš Ivković, Ivan Đordjević, **Predrag M. Rajković**, Bane Vasić,
Pulse Energy Probability Density Functions For Long-Haul Optical Fiber Transmission Systems By Using Instantons And Edgeworth Expansion,
IEEE Photonics Technology Letters, vol 19, No 20,(2007), 1604-1606. (M21)
[Cited by 13](#)
19. **Predrag M. Rajković** , Slađana D. Marinković, Miomir S. Stanković,
On q -Orthogonal Polynomials Over A Collection Of Complex Origin Intervals Related To Little q -Jacobi Polynomials,
The Ramanujan Journal , Vol. 12, No. 2 (2006), 245-255. (M22)
[Cited by 1](#)
20. **Predrag M. Rajković** , Slađana D. Marinković and Miomir S. Stanković,
On q -Newton-Kantorovich Method for Solving Systems of Equations,
Applied Mathematics and Computation, vol. 168/2 (2005) 1432-1448 . (M22)
[Cited by 5](#)
21. Slađana D. Marinković, **Predrag M. Rajković**,
The q -Analogues Of Laguerre Polynomials Over a Collection of Complex Origin Intervals,
Integral Transforms and Special Functions, Vol. 16, No. 2 (2005), 159-169.
(M22)
22. Ratko Pavlović, Predrag Kozić and **Predrag M. Rajković**,
Influence of randomly varying damping coefficient on the dynamic stability of continuous systems,
European Journal of Mechanics A/Solids, 24 (2005), 81-87. (M21)
[Cited by 3](#)
23. Slađana D. Marinković, Bratislav Danković, Miomir S. Stanković, **Predrag M. Rajković**,
Orthogonality Of Some Sequences Of The Rational Functions And The Muntz Polynomials,
Journal of Computational and Applied Mathematics vol. 163, (2004), 419-427.
(R51b)

24. Ratko Pavlović, Predrag Kozić, **Predrag M. Rajković**,
Influence of transverse shear on the stochastic instability of viscoelastic beam,
International Journal of Solids and Structures, Stanford, California, Vol. 38,
Issues 38-39, September 2001, 6829-6837. (M21)

25. Gradimir V. Milovanović, **Predrag M. Rajković**,
On Polynomials Orthogonal on a Circular Arc,
J. Comp. Appl. Math., vol. 51, North Holland, 1994., 1-13 (M22)

[Cited by 11](#)

B) Papers published in journals with international editorial board

1. **Predrag M. Rajković**, Paul Barry, Nataša Savić,
Number sequences in an integral form with a generalized convolution property and Somos-4 Hankel determinants,
Mathematica Balkanica, New Series Vol. 26 (2012) Fasc. 1-2, 219-228.
2. **Predrag M. Rajković**, Sladjana D. Marinković,
A comparison between different concepts of almost orthogonal polynomials,
Functional Analysis, Approximation and Computation 1:2 (2009), 37-46.
3. **Predrag M. Rajković**, S.D. Marinković, M.S. Stanković,
Fractional Integrals and Derivatives in q-Calculus,
Applicable Analysis and Discrete Mathematics, 1 (2007), 311–323. (M51)
[Cited by 27](#)
4. **Predrag M. Rajković**, S.D. Marinković, M.S. Stanković,
On q-Analogs of Caputo Derivative and Mittag-Leffler Function,
Fractional Calculus and Applied Analysis, (ISSN 1311-0454),
vol. 10, No 4 (2007), 359-374.
[Cited by 8](#)
5. M. Stanković, **Predrag M. Rajković** and S.D. Marinković,
Inequalities Which Include q-Integrals,
Bulletin T. CXXXIII de l'Academie serbe des sciences et des arts,
Classe des Sciences mathématiques et naturelles,
Sciences Mathématiques, No 31, Beograd 2006, 137-146. (M51)
6. **Predrag M. Rajković**, M.S. Stanković and S.D. Marinković,
A Method For Numerical Evaluating Of Inverse Z-Transform,
Facta Universitatis, Nis, Ser. Mechanics, Automatic Control and Robotics,
Vol. 4, No 16, 2004 pp. 133-139 UDC 519.6(045)
7. **Predrag M. Rajković**, Milos Ivković, Marko Petković,
A Conjecture About Positivity Of The Polynomials Obtained By The Expanding Of A Product,

Mathematica Balkanica, New Series Vol. 18, 2004., Fasc. 3-4, 419-430.
(exposed at Minisymposium "Transform Methods and Special Functions"
Part of The Congress is organized by MATHematical
Society of SouthEastern Europe -MASSEE), 2003. Borovets, Bulgaria.
[Cited by 2](#)

8. **Predrag M. Rajković**, M.S. Stanković and S.D. Marinković,
On q -Iterative Methods For Equation Solving,
Novi Sad Journal of Mathematics, vol 33, No 2, 2003., 127-137. (M51)
(Exposed at Conference of Applied Mathematics PRIM 2002, May 2002,
Zlatibor, Serbia, Yugoslavia).
[Cited by 2](#)
9. **Predrag M. Rajković**, M.S. Stanković and S.D. Marinković,
Mean Value Theorems In q -Calculus,
Matematički vesnik 54 (2002), Beograd, 171-178. (M51)
(Proceedings of International Conference "Mathematical Analysis and
Applications",
October 2002, Nis, Yugoslavia).
[Cited by 12](#)
10. **Predrag M. Rajković**,
*On Integration Of Nearly Singular Functions By The Quadratures Over
The Semicircle With Equal Weights*,
Facta Universitatis, Ser. Mechanics, Automatic Control and Robotics, vol. 3,
No 12, 2002., 359-365
(Proc. of V Yugoslav Symposium on Nonlinear Mechanics, Nis, Yugoslavia,
2000.)
11. A. Cvetković, **Predrag M. Rajković** and M. Ivković,
Catalan Numbers, The Hankel Transform And Fibonacci Numbers,
The electronic Journal of Integer Sequences, ISSN 1530-7638, Dep. of Comp.
Sc., University of Arizona, USA, May 2002.
[Cited by 46](#)
12. **Predrag M. Rajković** and S. Marinković,
On q -Extensions Of Generalized Hermite Polynomials,
FILOMAT, vol. 15, 2001, Nis, Yugoslavia. 277-283.
[Cited by 7](#)
13. G.V. Milovanović, **Predrag M. Rajković**, Z.M. Marjanović,
*Zero Distribution Of Polynomials Orthogonal On The Radial Rays In The
Complex Plane*,
Facta Universitatis (Nis), Ser. Mathem. Inform. 12 (1997), 127-142.
14. G.V. Milovanović, **Predrag M. Rajković**, Z.M. Marjanovic,
*A Class Of Orthogonal Polynomials On The Radial Rays In The Complex
Plane (II part)*,

Facta Univ., Ser. Math. Inform., Nis, vol. 11, 1996, 29-47

15. G.V. Milovanović, **Predrag M. Rajković**, Z.M. Marjanović,
On Properties Of Some Nonclassical Orthogonal Polynomials,
Filomat, vol. 9, 101—111, Nis, 1995.
16. G.V. Milovanović and **Predrag M. Rajković**,
Complex Orthogonal Polynomials With The Hermite Weight,
Publ. Elektrotehn. Fak. Ser. Mathem., Beograd, 1995., vol. 6, 63-73.
[Cited by 2](#)
17. G.V. Milovanović, **Predrag M. Rajković**,
Geronimus Concept Of Orthogonality For Polynomials Orthogonal On A Circular Arc,
Rendiconti di Mat., Ser. VII, vol.10, Roma, 1990., 383-390.
[Cited by 4](#)

C) Papers published in the proceedings of international conferences

1. Bratislav Danković, **Predrag M. Rajković**, Miomir S. Stanković, Slađana Marinković,
Almost orthogonal polinomial sequences of Laguerre type and applications,
XI Conference on Systems, Automatic Control and Measure (SAUM), Niš,
(2012) 379-381.
2. Miomir S. Stanković, S.D. Marinković, **Predrag M. Rajković**,
A Deformed Exponential Function of Two Variables –Motivation and Applications,
Application of Mathematics in Technical and Natural Sciences,
AIP (American Institute of Physics) Conf. Proc. 1404, 265-270 (2011).
(Exposed at 3. INTERNATIONAL CONFERENCE ON APPLICATIONS OF MATHEMATICS IN TECHNICAL AND NATURAL SCIENCES, Albena Bulgaria, 20-25 June 2011)
3. **R. Pavlović, Predrag M. Rajković, I. Pavlović**,
The Numerical Treatment Of Fractional Differential Equations For The Transversal Vibrations Of An Axially Compressed Viscoelastic Timoshenko Beam,
4th Serbian-Greek Symposium “Recent Advances in Mechanics”, Vlasina Lake, Serbia, 2011.
4. **Predrag M. Rajković, Slađana D. Marinković, Nataša Savić**,
The Classical Orthogonal Polynomials In The Tilings, Matchings And Paths,

Proceedings of the International Conference XVI Geometrical Seminar (Ed. S. Minčić, Lj. Velimirović), 2011, 103-112.

(International Conference XVI Geometrical Seminar, Vrnjačka Banja, Serbia, September 20-25, 2010.)

5. **Predrag M. Rajković, Vlastimir Nikolić, Srđan Matić,**
Transmission Control Protocol And q -Calculus,
YUINFO, Kopaonik, Serbia, 2011, 1-4.
6. **Predrag M. Rajković,** Virginia S. Kiryakova,
Legendre-type special functions defined by fractional order Rodrigues formula,
CP1301 , Application in Technical and Natural Sciences, American Institute of Physics (2010), pp. 644- 649.
(Exposed at 2. INTERNATIONAL CONFERENCE ON APPLICATIONS OF MATHEMATICS IN TECHNICAL AND NATURAL SCIENCES, Sozopol, Bulgaria, 22-27 June 2010)
7. Miomir S. Stanković, B. Danković, S.D. Marinković, **Predrag M. Rajković,**
The almost orthogonal polynomial sequences,
CP1301 , Application in Technical and Natural Sciences, American Institute of Physics (2010), pp. 650- 657.
(Exposed at 2. INTERNATIONAL CONFERENCE ON APPLICATIONS OF MATHEMATICS IN TECHNICAL AND NATURAL SCIENCES, Sozopol, Bulgaria, 22-27 June 2010).
8. **Predrag M. Rajkovic ,** Sladjana Marinkovic, Miomir Stankovic,
The Q -Gradient Method,
“Geometric Function Theory and Applications” 2010, 240-244,
(Proc. of International Symposium, Sofia, 27-31 August 2010).
9. **Predrag M. Rajković,** Vlastimir Nikolić, Emina Petrović,
The Advantages of Monte Carlo multiple integration,
X Conference on Systems, Automatic Control and Measure, Niš, (2010) 319-322.
10. Bratislav Danković, **Predrag M. Rajković,** Miomir S. Stanković, Slađana Marinković,
Various almost orthogonal polinomial sequences and their applications,
International conference Mechanical Engineering in XXI century, Niš, (2010) 3-6.
11. Predrag M. Rajković, **Slađana Marinković,** Nataša Savić,
The tiling and matching interpretations of classical orthogonal polynomials,
International conference Mechanical Engineering in XXI century, Niš, (2010) 11-14.

- 12. Predrag M. Rajkovic**, Sladjana D. Marinkovic
On The Concepts Of Almost Orthogonality,
Proceedings of XVIII Conference on Applied Mathematics, Novi Sad, 2010,
39-49. (PRIM 2009, Subotica, Serbia, May 25-27, 2009)
- 13. Predrag M. Rajkovic**, Marko D. Petkovic,
The Positive Polynomial Solutions Of A Few Difference Equations And Systems,
Proceedings of XVIII Conference on Applied Mathematics, Novi Sad, 2010,
49-57. (PRIM 2009, Subotica, Serbia, May 25-27, 2009)
- 14. M. S. Stanković, P. M. Rajković, S. D. Marinković**,
On Fractional q -Integrals, q -Derivatives and Corresponding Equations, CP1186, Application in Technical and Natural Sciences, American Institute of Physics (2009), 300- 308.
(Exposed at 1ST INTERNATIONAL CONFERENCE ON APPLICATIONS OF MATHEMATICS IN TECHNICAL AND NATURAL SCIENCES, Sozopol, Bulgaria, 22-27 June 2009)
- 15. Predrag M. Rajković**, Sladjana D. Marinković, Miomir S. Stanković,
The Fractional q -Operators And Corresponding Equations,
Proceedings of VIII Conference "Computational and Informational Technologies for Science, Engineering and Education", Kopaonik, Serbia (2009) 453-458.
- 16. S. D. Marinković, Predrag M. Rajković, M. Stanković**:
The linear q -differential equation and q -holonomic functions
Proceedings of XVII Conference on Applied Mathematics, Novi Sad, Serbia, 2007, 13-20. (PRIM 2006, Kragujevac, Serbia, September 25-27, 2006)
- 17. M. D. Petković, Predrag M. Rajković**,
The Hankel transform of shifted Narayana polynomials,
Proceedings of XVII Conference on Applied Mathematics, Novi Sad, Serbia, 2007, 79-84. (PRIM 2006, Kragujevac, Serbia, September 25-27, 2006)
- 18. M.S. Stankovic, Predrag M. Rajkovic, S.D. Marinkovic**,
On q -analogs of Mittag-Leffler Function,
Proceedings of the IX International SAUM Conference on Systems, Automatic Control and Measurements, Nis, Serbia, November, 2007, 99-102.
- 19. M. Ivkovic, I.Djordjevic, Predrag M. Rajkovic, B. Vasic**,
Modeling Errors In Long-Haul Optical Fiber Transmission Systems By Using Instantiations And Edgeworth Expansion,
Proceedings of ICC 2006 Optical Networks and Systems Symposium.
[Cited by 4](#)
- 20. Predrag M. Rajkovic, S.D. Marinkovic and M.S. Stankovic**,
Finding The Zeros Of The Functions Treated By q -Calculus,

Proceedings of The Sixth International Conference on Geometry, Integrability and Quantization, Sofia (2005) 284--296.. (Conference held in Varna, Bulgaria (ed. I.M. Mladenov, A.C. Hirshfeld), June, 2004.)

21. **Predrag M. Rajkovic**, S.D. Marinkovic and M.S. Stankovic,
On q -Newton-Kantorovich Method For Solving Systems Of Equations,
30. INTERNATIONAL CONFERENCE APPLICATIONS OF MATHEMATICS IN ENGINEERING AND ECONOMY, Sozopol, Bulgaria, June, 7-12, 2004.
22. Milivojevic, Z., Mirkovic, M., **Predrag M. Rajkovic**, Milosevic, B.,
Representation of speech signal by algorithm with signature functions,
ETRAN, Section: Elektricna kola i sistemi i procesiranje signala, Sednica: Algoritmi i modelovanje, Rad EK 3.5, str. 163-166, Budva, 2005
23. Z. Milivojevic, M. Mirkovic, **Predrag M. Rajkovic**,
Estimating of the fundamental frequency by the using of the parametric cubic convolution interpolaton,
International Scientific Conference UNITECH '04, Session: Electronics and Communication Engineering, pp. 138-141, Gabrovo, Bulgaria, 2004.
24. M. Mirkovic, Z. Milivojevic, **Predrag M. Rajkovic**,
Performanse sistema sa implementiranim PCC algoritmom za procenu fundamentalne frekvencije,
TELFOR'04, Sekcija: Obrada signala, Beograd, 2004.
25. **Predrag .M. Rajkovic**, M.S. Stankovic and S.D. Marinkovic:
Inverse Z-Transform And Its Numerical Computing,
Computational Intelligence and Information Technologies,
(Proceedings of Fourth Workshop), Nis and Dortmund, 2003, 9-12.
26. M.S. Stankovic, S.D. Marinkovic, **Predrag M. Rajkovic**,
The Generalization Of The Legendre Polynomials Obtained By Laplace Transform,
Proceedings of 29th International Summer School "Application of Mathematics in Engineering and Economics", Sozopol, Bulgaria, 2003, 34-40.
27. **Predrag M. Rajkovic**, M.S. Stankovic, S.D. Marinkovic,
The Zeros Of Polynomials Orthogonal With Respect To q -Integral On Several Intervals In The Complex Plane,
The Fifth International Conference on Geometry, Integrability and Quantization, 2003, Varna, Bulgaria (ed. I.M. Mladenov, A.C. Hirshfeld), 178-188.
28. M.S. Stankovic, **Predrag M. Rajkovic**, S.D. Marinkovic,

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