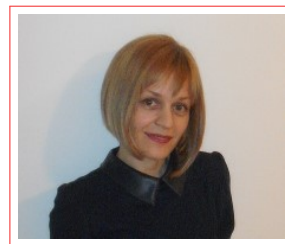


Ana Maria Acu

Curriculum Vitae

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WoS ID: [F-8072-2019](https://www.scopus.com/authid/detail.uri?authorId=57202121000)



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Affiliations

Department of
Mathematics and
Informatics, Lucian
Blaga University of Sibiu,
Romania

Str. Dr. I. Ratiu, No.5-7, RO-550012 Sibiu, Romania, depmath.ulbsibiu.ro

Research Center in
Mathematics and
Applications

Str. Dr. I. Ratiu, No.5-7, RO-550012 Sibiu, Romania, stiinte.ulbsibiu.ro/cercetare/rcma

Education

- 1996–2000 **Bachelor in Mathematics and Informatics**, *Lucian Blaga University of Sibiu*
2000–2007 **Ph.D. in Mathematics**, *Babeş-Bolyai University from Cluj-Napoca*
2016 **Habilitation in Mathematics**, *Tehcnical University of Cluj-Napoca*

Languages

Roumanian *Mothertongue*
English *B1 Average*

Positions

- Oct. 2000-Feb. 2003 **Preparatory Assistant**, *Department of Mathematics and Informatics, University Lucian Blaga of Sibiu*
Mar. 2003-Feb. 2008 **Assistant Professor**, *Department of Mathematics and Informatics, University Lucian Blaga of Sibiu*
Mar 2008-Sept. 2014 **Lecturer**, *Department of Mathematics and Informatics, University Lucian Blaga of Sibiu*
Oct. 2014-Sep. 2017 **Associate Professor**, *Department of Mathematics and Informatics, University Lucian Blaga of Sibiu*
Oct. 2017- **Professor**, *Department of Mathematics and Informatics, University Lucian Blaga of Sibiu*

Member in scientific organizations

American Mathematical Society, *member*

Romanian Mathematical Society, *member*

Research Center in Mathematics and Applications of Lucian Blaga University of Sibiu, RCMA, *member*

Coordinator of the group Numerical Methods and Approximation Theory, RCMA

Member in Editorial Board of Scientific Journals

Results in Mathematics

Mathematical Foundations of Computing

Publications de l'Institut Mathématique-Beograd

Poincare Journal of Analysis and Applications

International Journal of Applied Mathematical Research

Open Journal of mathematical Sciences (OMS)

General Mathematics

Member in scientific/organizing committees of International symposiums/conferences

- The International Conference on Approximation Theory and its Applications, September 12-14, 2022, Sibiu
- Minisymposium on "Approximation Theory and Applications" at the 8th European Congress of Mathematics, Portoroz, Slovenia, 20-26 June 2021.
- The International Conference on Approximation Theory and its Applications, 10-13 October, 2019, Sibiu
- The 13th Romanian - German Seminar on Approximation Theory and Its Applications, Technical University of Cluj-Napoca Faculty of Automation and Computer Science, Department of Mathematics, 3-6 July, 2019, Romania.
- The Romanian-German Seminar on Approximation Theory and its Applications, 21-22 April 2017, Oradea, Romania
- The International Conference on Approximation Theory and its Applications, 26-29 May, 2016, Sibiu
- International Conference on Theory and Applications of Mathematics and Informatics, Alba Iulia 2015.
- The 11th Romanian German Seminar on Approximation Theory and its Applications Sibiu, 29 May-1 June, 2014
- The 10th Romanian German Seminar on Approximation Theory and its Applications Sibiu, 24-27 May, 2012
- International Conference on Theory and Applications of Mathematics and Informatics, Alba Iulia 2011
- The 13th WSEAS International Conference on SYSTEM", Rodos Island, Greece, July 22-24, 2009
- International Conference on Theory and Applications of Mathematics and Informatics, Alba Iulia 2009.
- Romanian- German Symposium on Mathematics and Its Applications Sibiu, May 14-17, 2009.
- The 8th Romanian German Seminar on Approximation Theory and its Applications Sibiu, 28 May-1 June, 2008
- International Symposium "Mathematical Inequalities" , 25 – 27 September , Sibiu 2008"
- International Symposium on Complex Analysis, 26-29 August, Sibiu 2007
- International Conference on Theory and Applications of Mathematics and Informatics, Alba Iulia 2007

Scientific activity

- two monographies
- five university courses and two selections
- more than 150 published papers in scientific journals
- Editor/Guest Editor
 - Special Issue "Mathematical Inequalities, Models and Applications, 2nd Edition" in Mathematics (Deadline, 31 October 2024)
 - Special Issue "Numerical Methods and Approximation Theory" in Axioms (Deadline, 30 September 2024)
 - Special Issue Dedicated to Professor Ioan Raşa on the occasion of his 70th birthday in Dolomites Research Notes on Approximation (Volume 17, 2024)
 - Special Issue "Mathematical Inequalities, Models and Applications" in Mathematics (closed 30 November 2023)
 - Special Issue "New Directions in Theory of Approximation and Related Problems" in Symmetry (closed 15 September 2022)
 - Special Issue "Sequence Spaces, Function Spaces and Approximation Theory" in Journal of Function Spaces (closed 16 October 2020)
 - Proceedings of The 12th International conference on approximation Theory and its Applications, 26-29 May, 2016, Sibiu.
 - Proceedings of The 11th Romanian German Seminar on Approximation Theory and its Applications, Sibiu, 29 May-1 June, 2014
 - Proceedings of The 10th Romanian German Seminar on Approximation Theory and its Applications, Sibiu, 24-27 May, 2012
 - Proceedings of The 8th Romanian German Seminar on Approximation Theory and its Applications, Sibiu, 28 May-1 June, 2008
 - Proceedings of the Fifth International Symposium "Mathematical Inequalities, 25 – 27 September, Sibiu 2008
 - Mathematical Analysis I: Approximation Theory ICRAPAM 2018, New Delhi, India, October 23–25, Editors: Deo, N., Gupta, V., Acu, A.M., Agrawal, P.N. (Eds.), Springer Proceedings in Mathematics & Statistics, 2020.
 - Mathematical Analysis II: Optimisation, Differential Equations and Graph Theory, ICRAPAM 2018, New Delhi, India, October 23–25, Editors: Deo, N., Gupta, V., Acu, A.M., Agrawal, P.N. (Eds.), Springer Proceedings in Mathematics & Statistics, 2020.
- Invited speaker at 5 colloquium or seminar talks at "Duisburg-Essen" University, Germany
 - 19 June 2009- "Duisburg-Essen University", Germany Generalization of some classical quadrature formulas
 - 20 January 2010- "Duisburg-Essen University", Germany Extremal Problems for Polynomials
 - 28 January 2010- "Duisburg-Essen University", Germany Some methods for construction of quadrature formulas
 - 25 November 2011- "Duisburg-Essen University", Germany Some corrected optimal quadrature formulas
 - 26 April 2013- "Duisburg-Essen University", Germany Inequalities for a linear functional
- Invited speaker in 13 October 2015 at Kirikkale University, Turkey, New estimations for the differences of positive linear operators.
- Invited speaker at International Conference on Differential Geometry, Algebra and Analysis, November 15-17, 2016, Jamia Millia Islamia, India, Differences of positive linear operators.
- Invited speaker in 18 November 2016 at Delhi Technological University, India, Approximation by certain positive linear operators.
- Invited speaker in 19 November 2016 at Dr. B.R. Ambedkar University, Agra, India, Some problems in approximation by linear positive operators.

- Invited speaker in 18 May 2017 at Sofia University, Faculty of Mathematics and Informatics, Bulgaria, Some problems in Approximation by linear positive operators.
- Invited speaker at International Conference on Recent Advances in Pure and Applied Mathematics, 23-25 October 2018, New Delhi, India, Perturbed Bernstein-type operators.
- Invited speaker at International Conference on Mathematics : An Istanbul Meeting for World Mathematicians, 3-6 July, Istanbul, Turkey, 2018, Approximation by certain positive linear operators
- Invited speaker in 5 April 2019 at University of Wuppertal, Germany, Differences of positive linear operators.
- Invited speaker at at conference Approximation: Theory, Methods and Applications (ATMA2023), that was held in Padova (Italy) from January 18 to January 20, 2023.

Research visits

1. Visiting Professor at Duisburg-Essen University, 4-29 January, 2010 (DAAD program dedicated to "Academic Reconstruction of South-Eastern Europe")
2. Visiting Professor at Duisburg-Essen University, 15 February-12 March, 2010, (DAAD program dedicated to "Academic Reconstruction of South-Eastern Europe")
3. Visiting Professor at Duisburg-Essen University, 4-29 January, 2012, (DAAD program dedicated to "Academic Reconstruction of South-Eastern Europe")
4. Visiting Professor at Kirikkale University, Turkey , 12-19 October, 2015.
5. Visiting Professor at Delhi Technological University, India, 16-18 Noiembre, 2016
6. Visiting Professor at Dr. B.R. Ambedkar University, Agra, India, 19-20 Noiembre, 2016
7. Visiting Professor at Indian Institute of Technology Roorkee, India, 21-23 Noiembre, 2016
8. Visiting Professor at University of Wuppertal, 1-29 April 2019.
9. Visiting scientist at Ankara University during 2-16 November 2019, supported by The Scientific and Technological Research Council of Turkey, "2221 - Fellowships for Visiting Scientists and Scientists on Sabbatical Leave, with application numbers (1059B211900262)
10. Visiting Professor at University of Padua, Italy, 19 February-11 March 2022.
11. Visiting Professor at University of Perugia, Italy, 27 February-1 March 2022.
12. Visiting Professor at University of Wuppertal, 1-29 April 2022.
13. Visiting Professor at University of Jaen, Spain, 10 – 17 October 2022.
14. Visiting Professor at University of Wuppertal, 1-30 March 2023.
15. Visiting Professor at University of Wuppertal, 3-30 April 2024.

Research Projects

- Research grants LBUS-IRG-2015-01, No.2032/7 financed from Lucian Blaga University of Sibiu (Mathematical Inequalities and its Applications in Approximation Theory) (Director)
- Research grants LBUS-IRG-2016-02, Nr. 3209 financed from Lucian Blaga University of Sibiu (Approximation by certain positive linear operators) (Director)
- Research grants LBUS-IRG-2017-03, Nr. 3081 financed from Lucian Blaga University of Sibiu (Rate of convergence of summation-integral type operators) (Director)
- Research grants LBUS-IRG-2018-04, Nr. 3414 financed from Lucian Blaga University of Sibiu (Approximation by Durrmeyer type operators) (Director)
- Mobility projects for researchers; project code: PN-III-P1-1.1-MC-2018-1041, supported by Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI)
- Mobility projects for researchers; project code: PN-III-P1-1.1-MC-2019-0957, supported by Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI)
- Research grants LBUS-IRG-2019-05, Nr. 3083 financed from Lucian Blaga University of Sibiu & Hasso Plattner Foundation research grants (Representations for the inverses of certain operators) (Director)
- Project "LBUS-HPI-ERG-2020-04/Adaptive preferences and natural price on the financial market-a

- co-evolutionary model", contract no. 2724/16.12.2020, COR code 241301 (scientific resercher I)
- Project "LBUS-HPI-ERG-2020-07/Development of advanced numerical algorithms and robust calculation protocols for the dimensional and structural characterization of nanostructures", contract no. 4530/19.11.2021, COR code 212023 (scientific resercher I)
 - Research grants LBUS-IRG-2021-07, financed from Lucian Blaga University of Sibiu & Hasso Plattner Foundation research grants (Iterates and invariant measures for Markov operators) (Director)
 - "Know-how transfer for excellent research at ULBS" project, code: CNFIS-FDI-2021-0030, COR code 242401- Training expert
 - "PYTHAGORAS" project, project code no. 2021-1-RO01-KA220-HED-000032258, COR code 235104-Education expert
 - Research grants LBUS-IRG-2022-08, financed from Lucian Blaga University of Sibiu & Hasso Plattner Foundation research grants (Discrete probability distributions and some applications) (Director)
 - "FORTHEN-Fostering Outreach within European Regions, Transnational Higher Education and Mobility" project, code 101089463, Grant Agreement no. 101089463/19.10.2022, COR code 235104-Educational expert WP 8 senior
 - Research grants LBUS-IRG-2023, financed from Lucian Blaga University of Sibiu (Voronovskaja formula for Aldaz-Kounchev-Render operators), contract Nr. 3509/24.07.2023 (Director)
 - Project financed by Lucian Blaga University of Sibiu (Knowledge Transfer Center) & Hasso Plattner Foundation research grants LBUS-HPI-ERG-2023-01 (Operatori liniari pozitivi: noi provocări, noi aplicații), contract nr. 3190/03.07.2023 (Director)
 - Romania's National Recovery and Resilience Plan PNRR-III-C9-2022 - I8, Mathematical Methods and Models for Biomedical Applications (Ma.Me.Mo.Bi.A.), Contract no.760076/23.05.2023, CF125/15.11.2022 (Executive Manager and Scientific Resercher I)

Conference talks

1. APPLIED MATHEMATICS AND SCIENTIFIC COMPUTING, BRIJUNI, CROATIA, JULY 9-13, 2007
2. INTERNATIONAL SYMPOSIUM ON COMPLEX ANALYSIS, SIBIU, 26-29 AUGUST, 2007,
3. INTERNATIONAL CONFERENCE ON THEORY AND APPLICATIONS OF MATHEMATICS AND INFORMATICS, 29 AUGUST-2 SEPTEMBER, ALBA-IULIA, 2007
4. THE 8th ROMANIAN GERMAN SEMINAR ON APPROXIMATION THEORY AN ITS APPLICATIONS, 28 MAY-1 JUNE, SIBIU, 2008
5. THE 12th WSEASE INTERNATIONAL CONFERENCE ON COMPUTERS, HERAKLION, GREECE, JULY 23 - 25, 2008
6. THE TWELFTH INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS COMPUTER SCIENCE AND MECHANICS, BAISOARA, SEPTEMBRIE 10-13, 2008.
7. THE FIFTH INTERNATIONAL SYMPOSIUM " MATHEMATICAL INEQUALITIES", 25-27 SEPTEMBER, SIBIU, 2008.
8. INTERNATIONAL WORKSHOP "NEW TRENDS IN APPROXIMATION, OPTIMIZATION AND CLASSIFICATION", OCTOBER 1-5, SIBIU, 2008.
9. THE 14th INTERNATIONAL CONFERENCE -KNOWLEDGE BASED ORGANIZATION- LAND FORCES ACADEMY, NOIEMBRIE, SIBIU, 2008.
10. ROMANIAN-GERMAN SYMPOSIUM ON MATHEMATICS AND ITS APPLICATIONS, SIBIU MAY 14-17, 2009.
11. THE 5TH INTERNATIONAL CONFERENCE "DYNAMICAL SYSTEM AND APPLICATIONS" CONSTANTA, JUNE 15-18, 2009.

12. INTERNATIONAL CONFERENCE ON THEORY AND APPLICATIONS IN MATHEMATICS AND INFORMATICS, 3-6 SEPTEMBER, ALBA-IULIA, ROMANIA, 2009. 13. THE XII-TH SYMPOSIUM OF MATHEMATICS AND ITS APPLICATIONS, 5-7 NOVEMBER, TIMISOARA, ROMANIA, 2009.
13. INTERNATIONAL SYMPOSIUM "TWENTY YEARS OF MATHEMATICS IN THE LUCIAN BLAGA UNIVERSITY OF SIBIU, 14-15 MAY, 2010
14. SEVENTH INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS, BAIA MARE, SEPTEMBER 1-4, 2010
15. MATHEMATICS AND COMPUTER-AIDED MODELING IN SCIENCES INTENSIVE SCHOOL – NOVI SAD, 27-29 MAY, 2011
16. THE 9TH CONFERENCE ON NONLINEAR ANALYSIS AND APPLIED MATHEMATICS, TARGOVISTE, 10-11 JUNE, 2011
17. THE 8 TH INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS, BAIA-MARE , 27-30 OCTOBER 2011
18. INTERNATIONAL CONFERENCE ON THEORY AND APPLICATIONS IN MATHEMATICS AND INFORMATICS, 21-24 JULY, 2011, ALBA-IULIA
19. "GHEORGHE VRANCEANU" NATIONAL CONFERENCE ON METHEMATICS AND INFORMATICS WITH INTERNATIONAL PARTICIPATION, BACAU, 26-28 MAY, 2011
20. THE 17-TH INTERNATIONAL CONFERENCE, THE KNOWLEDGE-BASED ORGANISATION, APPLIED TECHNICAL SCIENCES AND ADVANCED MILITARY TECHNOLOGIES, 24-26 NOVEMBER, 2011, SIBIU.
21. OBERSEMINAR RHEIN-RUTH, DUISBURG-ESSEN UNIVERSITY, 26 NOVEMBER, 2011
22. THE 10TH ROMANIAN GERMAN SEMINAR ON APPROXIMATION THEORY AND ITS APPLICATIONS, 24-27 MAY, 2012, SIBIU.
23. OBERSEMINAR RHEIN-RUTH, DUISBURG-ESSEN UNIVERSITY, 26 APRIL, 2013
24. THE 13TH INTERNATIONAL CONFERENCE ON MATHEMATICS AND ITS APPLICATIONS, NOVEMBER, 1-3, 2012, TIMISOARA
25. "GHEORGHE VRANCEANU" NATIONAL CONFERENCE ON METHEMATICS AND INFORMATICS, BACAU, 31th OF MAY, 2013 .
26. THE 19TH INTERNATIONAL CONFERENCE –THE KNOWLEDGE BASED ORGANIZATION- APPLIED TECHNICAL SCIENCES AND ADVANCED MILITARY TECHNOLOGIES CONFERENCE, 13-15 JUNE 2013, SIBIU.
27. JOINT INTERNATIONAL MEETING OF THE AMERICAN MATHEMATICAL SOCIETY AND THE ROMANIAN MATHEMATICAL SOCIETY, JUNE 27-30, 2013, ALBA IULIA.
28. THE FOURTEENTH INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS AND COMPUTER SCIENCE, CLUJ-NAPOCA ROMANIA, AUGUST 29-31, 2013.
29. THE 9TH INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS, BAIA MARE, 25-28 SEPTEMBER, 2013.
30. THE 11TH ROMANIAN GERMAN SEMINAR ON APPROXIMATION THEORY AND ITS APPLICATIONS, 29 MAY-1JUNE, 2014, SIBIU.
31. OBERSEMINAR RHEIN-RUTH, WUPPERTAL UNIVERSITY, 18 JULY, 2014
32. GLOBAL NETWORK CONFERENCE ON EMERGENCY MEDICINE, MOHAMMED BIN RASHID ACADEMIC MEDICAL CENTER, DUBAI, 25TH-29TH, APRIL 2014.

33. THIRD INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPROXIMATION THEORY, CLUJ-NAPOCA, SEPTEMBER 17-20, 2014.
34. The 14th INTERNATIONAL CONFERENCE ON MATHEMATICS AND ITS APPLICATIONS, TIMISOARA 4-7 NOVEMBER, 2015.
35. THE 12TH INTERNATIONAL CONFERENCE ON APPROXIMATION THEORY AND ITS APPLICATIONS, 26-29 MAY, 2016, SIBIU.
36. 15TH INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS AND COMPUTER SCIENCE 5-7 JULY, 2016, CLUJ-NAPOCA.
37. INTERNATIONAL CONFERENCE ON DIFFERENTIAL GEOMETRY, ALGEBRA AND ANALYSIS, NOVEMBER 15-17, JAMIA MILLIA ISLAMIA, INDIA.
38. THE 9TH EDITION OF "GHEORGHE VRANCEANU" CONFERENCE ON MATHEMATICS AND INFORMATICS, DECEMBER 6TH, 2016, BACAU.
39. THE ROMANIAN-GERMAN SEMINAR ON APPROXIMATION THEORY AND ITS APPLICATIONS, 21-22 APRIL 2017, ORADEA, ROMANIA
40. INTERNATIONAL CONFERENCE ON MATHEMATICS: AN ISTANBUL MEETING FOR WORLD MATHEMATICIANS, 3-6 JULY, ISTANBUL, TURKEY, 2018
41. FOURTH INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPROXIMATION THEORY, CLUJ-NAPOCA, SEPTEMBER 6-9, 2018.
42. INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS, 23-25 OCTOBER, NEW DELHI, 2018
43. INTERNATIONAL CONFERENCE CONSTRUCTIVE THEORY OF FUNCTIONS, 3-8 JUNE, 2019 SOZOPOL, BULGARIA
44. THE 13TH ROMANIAN-GERMAN SEMINAR ON APPROXIMATION THEORY AND ITS APPLICATIONS, TECHNICAL UNIVERSITY OF CLUJ-NAPOCA FACULTY OF AUTOMATION AND COMPUTER SCIENCE, DEPARTMENT OF MATHEMATICS, 3-6 JULY, 2019, CLUJ-NAPOCA, ROMANIA.
45. THE INTERNATIONAL CONFERENCE ON APPROXIMATION THEORY AND ITS APPLICATIONS, 10-13 OCTOBER, 2019, SIBIU
46. INTERNATIONAL CONFERENCE ON RESEARCH FRONTIER IN SCIENCES (ICRFS-21), 5-6TH FEB 2021, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR, INDIA (Keynote speaker)
47. 19TH INTERNATIONAL CONFERENCE ON FUNCTIONAL EQUATIONS AND INEQUALITIES, BEDLEWO, POLAND, SEPTEMBER 19-21, 2021.
48. CONFERENCE "RECENT DEVELOPMENTS IN MATHEMATICAL ANALYSIS" ON THE OCCASION OF FRANCESCO ALTOMARE'S 70TH BIRTHDAY, SEPTEMBER 23-24, 2021
49. FIFTEENTH FRENCH-ROMANIAN COLLOQUIUM ON APPLIED MATHEMATICS, 28 AUGUST – 3 SEPTEMBER 2022, TOULOUSE, FRANCE
50. FUNCTIONAL ANALYSIS, APPROXIMATION THEORY AND NUMERICAL ANALYSIS, MATERA, ITALY, JULY 5-8, 2022
51. APPROXIMATION THEORY, METHODS AND APPLICATIONS (ATMA2023), PADOVA (ITALY) JANUARY 18-20, 2023 (INVITED SPEAKER).
52. 20TH INTERNATIONAL CONFERENCE ON FUNCTIONAL EQUATIONS AND INEQUALITIES, BEDLEWO, POLAND, SEPTEMBER 17-23, 2023.

53. TRAIN THE TRAINERS HOW TO TEACH ICT TOOLS OF LEARNING, LA LAGUNA UNIVERSITY, SPAIN, MARCH 10-18, 2024.

Visits under Erasmus program

1. June 15-29, 2009, "Duisburg-Essen University", Germany
2. November 14-28, 2011, "Duisburg-Essen University", Germany
3. April 15-27, 2013, "Duisburg-Essen University", Germany
4. July 8-20, 2014, "Duisburg-Essen University", Germany
5. September 18-26, 2015, Technological Educational Institute of Thessaly, Greece
6. May 14-19, 2017 at University of Architecture, Civil Engineering and Geodesy, Sofia, Bulgaria
7. June 15-23, 2018, Technological Educational Institute of Thessaly, Greece
8. 28 May-3 June 2019, University of Architecture, Civil Engineering and Geodesy, Sofia, Bulgaria
9. July 21-30, 2019 Ateneo de Manila University, Philippines
10. May 24-31, 2021, University of Thessaly din Grecia
11. May 23-31, 2022, Universitas Airlangga, Indonesia
12. May 3-9, 2023, Universidade de Evora Portugal
13. June 13-20, 2023, Universitas Airlangga, Indonesia
14. November 6-12, 2023, University of Latvia, Latvia
15. February 12-16, 2024, University of Jyvaskyla, Finland

Publications

1. U. Abel, A.M. Acu, M. Heilmann, I. Rasa, Voronovskaja formula for Aldaz-Kounchev-Render operators: uniform convergence, Volume14, Issue1, Article Number 2, 2024
2. A.M. Acu, J.A. Adell, I. Rasa, Explicit upper bounds for Touchard polynomials and Bell numbers, 172 (1) (2024), 255–263.
3. A.M. Acu, S. De Marchi, I. Rasa, Aldaz-Kounchev-Render operators on simplices, Journal of Mathematical Analysis and Applications, Volume 533, Issue2, Article Number 128072, 2024
4. U. Abel, A.M. Acu, M. Heilmann, I. Rasa, Genuine Bernstein-Durrmeyer type operators preserving 1 and x^j , Annals of Functional Analysis, Volume15, Issue1, Article Number 4, 2024
5. A.M. Acu, J.A. Adell, I. Rasa, Rates of convergence for Jakimovski-Leviatan operators in terms of the Ditzian-Totik modulus, Banach Journal of Mathematical Analysis, Volume 17, Issue 4, Article Number 66, 2023
6. A.M. Acu, M. Heilmann, I. Rasa, A. Seserman, Poisson approximation to the binomial distribution: extensions to the convergence of positive operators, RACSAM, Volume 117, Issue 4, Article Number 162, 2023
7. A.M. Acu, M. Heilmann, I. Rasa, Some results for the inverse of a Bernstein–Schnabl type operator. Anal.Math.Phys. 13, 15 (2023). (WoS)
8. A.M. Acu, G. Mutlu, B. Çekim, S. Yazıcı, A new representation and shape-preserving properties of perturbed Bernstein operators, Mathematical Methods in the Applied Sciences, Volume 47, Issue 1, Page 5-14, 2023
9. U. Abel, A.M. Acu, M. Heilmann, I. Rasa, Positive linear operators preserving certain monomials on $[0, \infty)$, Dolomites Reserch Notes on Approximation, Volume 16, Issue 3, Page1-9, Special Issue 2, 2023
10. A.M. Acu, I. Rasa, A. Seserman, Positive linear operators and exponential functions, Mathematical Foundations of Computing, Volume 6, Issue 3, Page 313-319, 2023

11. F. Öz Saraç, A.M. Acu, A. Aral, I. Raşa, On the Modification of Mellin Convolution Operator and Its Associated Information Potential, Numerical Functional Analysis and Optimization, Volume 44, Issue 11, Page 1194-1208, ISSN 0163-0563
12. AM Acu, I. Rasa, A Discrete Probability Distribution and Some Applications. *Mediterr. J. Math.* 20, 34 (2023). (WoS)
13. AM Acu, S. De Marchi, I. Raşa, Aldaz–Kounchev–Render Operators and Their Approximation Properties. *Results Math* 78, 21 (2023). (WoS)
14. A.M. Acu, M. Heilmann, I. Rasa, Some results for the inverse of a Bernstein–Schnabl type operator. *Anal.Math.Phys.* 13, 15 (2023)
15. A.M. Acu, I. Rasa, H. Srivastava, Some Functionals and Approximation Operators Associated with a Family of Discrete Probability Distributions, *Mathematics* 2023, 11(4), 805
16. A.M. Acu, I. Rasa, A. Seserman, Composition and Decomposition of Positive Linear Operators (VIII), *Axioms* 2023, 12(3), 228
17. A.M. Acu, M. Heilmann, I. Rasa, et al. Convergence of Linking Durrmeyer-Type Modifications of Generalized Baskakov Operators. *Bull. Malays. Math. Sci. Soc.* 46, 113 (2023)
18. A.M. Acu, I. Rasa, A.E. Steopoaie, Strongly convex squared norms, *Dolomites Research Notes on Approximation*, Volume 16, 2023, 23-25.
19. AM Acu, A. Aral, I. Rasa, New properties of operators preserving exponentials. *Rev. Real Acad. Cienc. Exactas Fis. Nat. Ser. A-Mat.* 117, 1 (2023). (WoS)
20. AM Acu, M Dancs, M Heilmann, V Pasca, I Rasa, A Bernstein-Schnabl type operator: Applications to difference equations, *Applicable Analysis and Discrete Mathematics* 2022, 16 (2), 495-507. (WoS)
21. P. N. Agrawal, A. M. Acu and R. Chauhan, Weighted A-statistical convergence and Bögel approximation by operators of exponential type, *Journal of Mathematical Inequalities*, 16 (3), 827-828, 2022. (WoS)
22. AM Acu, V Gupta, I Rasa, F Sofonea, Convergence of Special Sequences of Semi-Exponential Operators, *Mathematics* 2022, 10(16), 2978. (WoS)
23. AM Acu, I Rasa, Functional equations related to Appell polynomials and Heun functions. *Anal. Math. Phys.* 12, 77 (2022). (WoS)
24. AM Acu, I. Rasa, Nonlinear algebraic systems with positive coefficients and positive solutions. *J. Appl. Math. Comput.* 69, 19–35 (2023). (WoS)
25. AM Acu, I. Rasa, AE Steopoaie, Algebraic Systems with Positive Coefficients and Positive Solutions, *Mathematics* 2022, 10(8), 1327. (WoS)
26. M. Dhamija, N. Deo, R. Pratap, AM Acu, Generalized Durrmeyer operators based on inverse Pólya–Eggenberger distribution. *Afr. Mat.* 33, 9 (2022). (WoS)
27. V Bratian, AM Acu, DM Mihaiu, RA Serban, Geometric Brownian Motion (GBM) of Stock Indexes and Financial Market Uncertainty in the Context of Non-Crisis and Financial Crisis Scenarios, *Mathematics* 2022, 10(3), 309. (WoS)
28. AM Acu, IC Buscu, I Rasa, Generalized Kantorovich modifications of positive linear operators. *Mathematical Foundations of Computing*, 2023, 6(1): 54-62. (WoS)

29. AM Acu, A Kajla, Blending type approximation by modified Bernstein operators. *Adv. Oper. Theory* 7, 9 (2022). (WoS)
30. AM Acu, A Aral, I Raşa, Generalized Bernstein Kantorovich operators: Voronovskaya type results, convergence in variation, *Carpathian J. Math.* 38(1), (2022), 1 – 12 (WoS)
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