Lista lucrărilor ştiinţifice

Candidat: Lector Dr. Marius-Mihai Birou

• Lista celor mai relevante 10 lucrări

1) M.M. Birou, New Rates of Convergence for the Iterates of Some Positive Linear Operators, Mediterr. J. Math, 14(2017), Issue: 3, Article Number: UNSP 129. **(ISI)**

2) M.M. Birou, A proof of a conjecture about the asymptotic formula of a Bernstein type operator, Results Math., 72(2017), Issue: 3, 1129-1138. **(ISI)**

3) M.M. Birou, A class of Markov operators which preserve e_j, $j \geq 1$, Appl. Math. Comp., 250(2015), 1-11. **(ISI)**

4) M.M. Birou, Bernstein type operators with a better approximation for some functions, Appl. Math. Comp, 219(2013), 9493-9499. **(ISI)**

5) V. N. Mishra, P. Sharma, M. Birou, Approximation by Modified Jain-Baskakov Operators, Georgian Mathematical Journal, acceptată **ISI**.

6) M. Birou, Blending surfaces generated using the Bernstein operator, Creative Mathematics and Informatics, 21(1), 2012, 35-40.

7) M. Birou, A note about some general King operators, Annals of Tiberiu Popoviciu Seminar 12(2014), 3-16.

8) M. Birou, Discrete operators asociated with Durrmeyer operators, Studia Univ Babes Bolyai Math., 65(2015), no. 2, 295-302.

9) M.M. Birou, A note about a conjecture, Annals of Tiberiu Popoviciu Seminar, 14(2016), 13-16.

10) M.M. Birou, F. Nasaireh, Explicit representation of the approximation of the solutions of some diffusion equations, Annals of Tiberiu Popoviciu Seminar, 14(2016), 17-30

• Teza de doctorat

Titlu: Metode booleene şi de tip produs n aproximarea bidimensională
Conducător ştiinţific: Prof. Univ. Dr. Gheorghe Coman
Universitatea Babeş Bolyai Cluj Napoca
Susţinere publică: 09.12.2005

• Cărţi

1) M.M. Birou, Culegere de probleme de calcul integral, Editura Mega, Cluj Napoca, 2018. ISBN 978-606-543-938-2.

2) M. Birou, Bivariate approximation formulas, Casa cărţii de ştiinţă, Cluj Napoca, 2008, ISBN 978-973-133-414-1.

3) Gh Coman, T Catinas, M Birou, A Oprisan, C Osan, I Pop, I Somogyi, I Todea, Interpolation operators, Casa cărţii de ştiinţă, Cluj Napoca, 2004, ISBN 973-686-603-3.

• Articole în extenso, publicate în reviste din fluxul ştiinţific internaţional

i) Articole/studii publicate în reviste de specialitate de circulaţie internaţională recunoscute (cotate ISI)

1) M.M. Birou, New Rates of Convergence for the Iterates of Some Positive Linear Operators, Mediterr. J. Math, 14(2017), Issue: 3, Article Number: UNSP 129.

2) M.M. Birou, A proof of a conjecture about the asymptotic formula of a Bernstein type operator, Results Math., 72(2017), Issue: 3, 1129-1138.

3) M.M. Birou, A class of Markov operators which preserve e_j, $j \geq 1$, Appl. Math. Comp., 250(2015), 1-11.

4) M.M. Birou, Bernstein type operators with a better approximation for some functions, Appl. Math. Comp, 219(2013), 9493-9499

5) V. N. Mishra, P. Sharma, M. Birou, Approximation by Modified Jain-Baskakov Operators, Georgian Mathematical Journal, acceptată

6) M.M. Birou, New quantitative results for the convergence of the iterates of some positive linear operators, Positivity, trimisă spre publicare.

ii) Lucrări publicate în reviste indexate BDI (necotate ISI)

1) Gh. Coman Gh., M. Birou, Bivariate spline-polynomial interpolation, Studia Univ Babes Bolyai, 48(2003), no 4, 17-25.

2) M. Birou, Biermann interpolation with Hermite information, Studia Univ. Babes-Bolyai, 51(2005), no. 3, 41-55.

3) M. Birou, Biermann interpolation of Birkhoff type, Rev. Anal. Numer. Theor. Approx., 34(2005), no. 1, 37-45.

4) M. Birou, Some extensions of bivariate tensor-product formula, Studia Univ. Babes-Bolyai, 51(2005), no. 4., 11-21.

5) M. Birou, C.O. Oşan, Boolean Shepard interpolation, Studia Univ. Babes-Bolyai, 52(2006), no. 1, 27-40.

6) M. Birou, Some interpolation schemes with triangular and rectangular elements of Birkhoff type, Creative Mathematics and Informatics, 16(2007), 1-12.

7) M. Birou, Some cubatures with Chebyshev nodes, Studia Univ. Babes Bolyai, 53(2007), no. 3., 13-23.

8) M. Birou, A bivariate operator which interpolates some partial derivatives of a function at the vertices of a triangle, Autom. Comput. Appl. Math, 16(2007), no. 2, 9-16.

9) M. Birou, Bivariate operators of binomial type, Autom. Comput. Appl. Math, 17(2008), no. 3, 381-386.

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11) M. Birou, Some bivariate piecewise operators, Creative Mathematics, 17(2008), no. 3, 313-318.

12) M. Birou, Blending surfaces on circular domains generated by blending interpolation Autom. Comput. Appl. Math. 18(2009), no. 1, 97-106.

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15) M. Birou, Blending surfaces on ellipse generated using the Bernstein operators, Studia Univ Babes Bolyai, 56(2), 2011, 237-246.

16) M. Birou, Blending surfaces on astroid, Studia Univ Babes Bolyai Math., 56(3), 2011, 127-134.

17) M. Birou, Blending surfaces generated using the Bernstein operator, Creative Mathematics and Informatics, 21(1), 2012, 35-40.

18) M. Birou,. A Voronovskaya type theorem for some generalized Bernstein operators, Autom. Comput. Appl. Math 21 (2012), no. 1, 3-9.

19) M. Birou, Some polynomials operators of Bernstein type, Autom. Comput. Appl. Math. 22 (2013), no. 1, 33-40.

20) M. Birou, A Bernstein-Durrmeyer operator which preserves e_0 and e_2, General Mathematics, 22(2014), no. 1, 49-58.

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22) M. Birou, Some blending surfaces generated by univariate interpolation, General Mathematics, 22 (2014), no. 2, 19-26.

23) M. Birou, Discrete operators asociated with Durrmeyer operators, Studia Univ Babes Bolyai Math., 65(2015), no. 2, 295-302.

24) M. Birou, Discrete Bernstein type operators which preserve e_0 and e_j, $j \geq 1$, Annals of Tiberiu Popoviciu Seminar 13(2015), 3-12.

25) M.M. Birou, A note about a conjecture, Annals of Tiberiu Popoviciu Seminar, 14(2016), 13-16.

26) M.M. Birou, F. Nasaireh, Explicit representation of the approximation of the solutions of some diffusion equations, Annals of Tiberiu Popoviciu Seminar, 14(2016), 17-30.

27) M.M. Birou, F. Nasaireh, Rates of convergence for the iterates of some positive linear operators which preserve the linear functions, Autom. Comput. Appl. Math., 25(2016), 3-9.

• Publicaţii în extenso apărute în lucrări ale principalelor conferinţe internaţionale de specialitate

1) M. Birou, Optimal cubature of product type, SYNASC Timişoara, România, 6th International Symposium, September 26-30, 2004, Proceedings (Ed. Dana Petcu et all), 59-64.

• Alte publicaţii

1) M. Birou, Bivariate approximation of scattered data, Seminar of Numerical and Statistical Calculus, Faculty of Mathematics and Computer Science, Babes-Bolyai University, Cluj-Napoca, 2004, 3-14.

2) Dragan, M. Birou, C. Arsene, Study on the generation of the surfaces used in construction with the Birkhoff type interpolation, Bul. St Univ Nord Baia Mare, Seria D, Exploatari miniere, Volumul XXIV Nr.2, 97-104.

3) M. Birou, Aplicaţii ale formulelor de cuadratură, Simpozion, 28 februarie 2018, Satu Mare.

05.06.2018
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