



**Miskolc
Mathematical
Notes**

VOLUME 20 (2019), NUMBER 2

CONTENTS

Usama A. Aburawash and Muhammad Saad

- Reversible and reflexive properties for rings with involution 635

Nutefe Kwami Agbeko

- Axiomatic system defining an order-embedding between infinite σ -algebras 651

Maitere Aguerrea and Robert Hakl

- Existence of fast positive semi-wavefront solutions to monostable integro-differential equations with delay 665

Bashir Ahmad, Doa'a Garout, Sotiris K. Ntouyas, and Ahmed Alsaedi

- Caputo fractional differential inclusions of arbitrary order with nonlocal integro-multipoint boundary conditions 683

Y. Akroud, N. Touafek, and Y. Halim

- On a system of difference equations of second order solved in closed form 701

Osman Alagoz, Birol Gunduz, and Sezgin Akbulut

- Fixed point of continuous mappings defined on an arbitrary interval 719

Mahvish Ali, Tabinda Nahid, and Subuhi Khan

- Some results on hybrid relatives of the Sheffer polynomials via operational rules 729

Şahsene Altınkaya and Sibel Yalçın

- Some applications of generalized Srivastava-Attiya operator to the bi-concave functions 745

İlhame Amirali

- Analysis of higher order difference method for a pseudo-parabolic equation with delay 755



**Miskolc
Mathematical
Notes**

VOLUME 20 (2019), NUMBER 2

CONTENTS

Cristina Ballantine and Mircea Merca

- A family of lacunary recurrences for Fibonacci numbers 767

Çiğdem Biçer and Celil Nebiyev

- \oplus -supplemented lattices 773

H. Budak and P. Agarwal

- New generalized midpoint type inequalities for fractional integral 781

F. Ayca Cetinkaya

- A discontinuous q -fractional boundary value problem with eigenparameter dependent boundary conditions 795

Younseok Choo

- On the generalized bi-periodic Fibonacci and Lucas quaternions 807

Hülya Gültekin Çitil

- Comparisons of the exact and the approximate solutions of second-order fuzzy linear boundary value problems 823

Gábor Czédli and Eszter K. Horváth

- A note on lattices with many sublattices 839

M. Rostamian Delavar

- New bounds for Hermite-Hadamard's trapezoid and mid-point type inequalities via fractional integrals 849

Jerome T. Dimabayao, Vadim Ponomarenko, and Orland James Q. Tigas

- On the monoid of monic binary quadratic forms 863

Dan-Dan Gao, Bo-Yan Xi, Ying Wu, and Bai-Ni Guo

- On integral inequalities of Hermite–Hadamard type for coordinated r -mean convex functions 873



**Miskolc
Mathematical
Notes**

VOLUME 20 (2019), NUMBER 2

CONTENTS

Zahra Goodarzi, Abdolrahman Razani, and M.R. Mokhtarzadeh	
A periodic solution of the coupled matrix Riccati differential equations	887
Said R. Grace and John R. Graef	
Oscillatory behavior of second order nonlinear difference equations with a nonlinear nonpositive neutral term	899
Anuradha Gupta and Manu Rohilla	
Coincidence point results in b-metric spaces via C_F - s -simulation function	911
Sedda Hakmi, Ouiza Lekadir, and Djamil Aïssani	
Analysis of priority queue with repeated attempts using generalized stochastic Petri nets	925
H.A. Hammad, W. Cholamjiak, D. Yambangwai, and H. Dutta	
A modified shrinking projection methods for numerical reckoning fixed points of G -nonexpansive mappings in Hilbert spaces with graphs	941
Vu Ho, Nhat Vy Huynh, and Phuong Le	
Solutions of homogeneous fractional p -Kirchhoff equations in \mathbb{R}^N	957
Bidu Bhusan Jena and Susanta Kumar Paikray	
Product of statistical probability convergence and its applications to Korovkin-type theorem	969
Sungtae Jun, Gradimir V. Milovanović, Insuk Kim, and Arjun K. Rathie	
A note on sums of a class of series	985
Huriye Kadakal, Mahir Kadakal, and İmdat İşcan	
Some new integral inequalities for N -times differentiable R -convex and R -concave functions	997



**Miskolc
Mathematical
Notes**

VOLUME 20 (2019), NUMBER 2

CONTENTS

Arezki Kheloufi

- Intermediate regularity results for the solution of a high order parabolic equation 1013

O. Kichmarenko and O. Stanzhytskyi

- Optimal control problems for some classes of functional-differential equations on the semi-axis 1021

Emrah Kılıç and Didem Ersanlı

- New reciprocal sums involving finite products of second order recursions 1039

Miroslaw Liana, Anetta Szynal-Liana, and Iwona Włoch

- On Pell hybrinomials 1051

Emir Ali Maris and Sertac Goktas

- A study on the uniform convergence of spectral expansions for continuous functions on a Sturm-Liouville problem 1063

Devaraja Mallesha Naik, Venkatesha, and D.G. Prakasha

- Certain results on Kenmotsu pseudo-metric manifolds 1083

S. Obeidat, M. A. Latif, and A. Qayyum

- A weighted companion of Ostrowski's inequality using three step weighted kernel 1101

Diana Otrocol

- Qualitative properties of solutions for mixed type functional-differential equations with maxima 1119

Feng Qi, Da-Wei Niu, and Dongkyu Lim

- Notes on explicit and inversion formulas for the Chebyshev polynomials of the first two kinds 1129



**Miskolc
Mathematical
Notes**

VOLUME 20 (2019), NUMBER 2

CONTENTS

Xuli Qi	
Szeged index of a class of unicyclic graphs	1139
Wei-Mao Qian, Wen Zhang, and Yu-Ming Chu	
Bounding the convex combination of arithmetic and integral means in terms of one-parameter harmonic and geometric means	1157
Setareh Rajabi	
Best approximation and characterization of Hilbert spaces	1167
Nadeem ur Rehman and Shuliang Huang	
On Lie ideals and symmetric generalized (α, β) -biderivation in prime ring	1175
P. Njionou Sadjang and Ugur Duran	
On two bivariate kinds of (p, q) -Bernoulli polynomials	1185
Ewa Schmeidel, Urszula Ostaszewska, and Małgorzata Zdanowicz	
Emergence of consensus of multi-agents systems on time scales	1201
G. Aydin Şekerci, S. Sevinç, and A.C. Çöken	
On the translation hypersurfaces with Gauss map G satisfying $\Delta G = AG$	1215
Erhan Set, Ahmet Ocak Akdemir, and İlker Mumcu	
Chebyshev type inequalities for conformable fractional integrals	1227
Sumit Som and Ekrem Savas	
A note on farthest point problem in Banach spaces	1237
H. M. Srivastava, M. K. Aouf, and A. O. Mostafa	
Some properties of analytic functions associated with fractional q -calculus operators	1245



**Miskolc
Mathematical
Notes**

VOLUME 20 (2019), NUMBER 2

CONTENTS

Jan Tomeček

- Multiple solutions of a Dirichlet problem in one-dimensional billiard space 1261

Gözde Özkan Tükel, Tunahan Turhan, and Ahmet Yücesan

- Generalized elastica in $SO(3)$ 1273

Izhar Uddin, Javid Ali, and Vladimir Rakočević

- Some convergence theorems for new iteration scheme in CAT(0) spaces . . 1285

JinRong Wang and Michal Fečkan

- Periodic solutions and stability of linear evolution equations with noninstantaneous impulses 1299

Yasin Yazlik, Sure Köme, and Cahit Köme

- Bicomplex generalized k -Horadam quaternions 1315