



CONTENTS

<i>M. Alizadeh and M. Alimohammady</i>	
Regularity and entropy solutions of some elliptic equations	715
<i>Mohammad Ashraf, Almas Khan, and Malik Rashid Jamal</i>	
Traces of permuting generalized n -derivations of rings	731
<i>Hacène Belbachir and Hakim Harik</i>	
Link between Hosoya index and Fibonacci numbers	741
<i>Olga Belova</i>	
An analog of Neifeld's connection induced on the space of centred planes	749
<i>Csaba Biró and Gábor Kúspér</i>	
Equivalence of strongly connected graphs and black-and-white 2-SAT problems	755
<i>Ivan Chajda and Helmut Länger</i>	
Derivations in Łukasiewicz semirings	769
<i>S. Chandok, A.H. Ansari, T. Došenović, and S. Radenović</i>	
On α_β -contractive and admissible mappings	787
<i>Erkan Cimen and Musa Cakir</i>	
Convergence analysis of finite difference method for singularly perturbed nonlocal differential-difference problem	795
<i>S. Das and H. Dutta</i>	
Characterization of some matrix classes involving some sets with speed .	813
<i>Uğur Değer and Hilal Bayındır</i>	
Approximation by Nörlund and Riesz type deferred Cesàro means in the space $H_p^{(\omega)}$	823



CONTENTS

Esra Erkuş-Duman

Some new properties of univariate and multivariate Gottlieb polynomials . . . 835

Fatma Tokmak Fen

On the solutions of a multi-point BVP for fractional differential equations
with impulses 847

H. R. Hashim and Sz. Tengely

Representations of reciprocals of Lucas sequences 865

Yue He and Gendi Wang

Generalized convexity of the inverse hyperbolic cosine function 873

K.-T. Howell and S. P. Sanon

Near-vector spaces constructed from near domains 883

Shuliang Huang

An identity with derivations in prime rings 899

T. Jangveladze, Z. Kiguradze, and M. Kratsashvili

Uniqueness of solution and fully discrete scheme to nonlinear integro-
differential averaged model with source terms 907

Guojing Jiang and Shin Min Kang

Common fixed point theorems with an application in dynamic programming 923

Waqar Khan, Faisal Yousafzai, and Kostaq Hila

Congruences and decompositions of AG^{**} -groupoids 931

Yeliz Kara

Modules whose projection invariant submodules have projection invariant
closures 945



CONTENTS

Rupali Kaushal, Rakesh Kumar, and Rakesh Kumar Nagaich

Lightlike submersions from totally umbilical semi-transversal lightlike sub-
manifolds 953

Aleksandra Kostić, Zoran Z. Petrović, Zoran S. Pucanović, and Maja Roslavcev

A generalization of nil-clean rings 969

L. Kovács

Efficient approximation for counting of formal concepts generated from
formal context 983

Dorde Krtinić and Marija Mikić

Refinement of Hermite–Hadamard type inequalities for s -convex functions 997

Mehmet Kunt, İmdat Işcan, Sercan Turhan, and Dünya Karapınar

Improvement of fractional Hermite-Hadamard type inequality for convex
functions 1007

H.-H. Leung

Determinants containing powers of polynomial sequences 1019

Shahlar Meherrem, Deniz H. Gucoglu, and Samir Guliyev

Numerical solution of linear-quadratic optimal control problems for switch-
ing systems 1035

Janusz Migda and Magdalena Nockowska-Rosiak

Asymptotic behavior of solutions of second order difference equations with
deviating argument 1047

Veronika Novotná and Bedřich Půža

On the construction of solutions of general linear boundary value problems
for systems of functional differential equations 1063



CONTENTS

Neşe Ömür and Sibel Koparal

Some interesting congruences for ballot numbers 1079

Páll-Szabó Á. O.

On a class of univalent functions defined by Sălăgean integro-differential operator 1095

Choonkil Park

Additive (α, β) -functional equations and linear mappings 1107

L. Romakina

To a question on the existence of regular mosaics on a hyperbolic plane of positive curvature 1117

Miklós Rontó

The seventh international Workshop – 2018 “Constructive methods for non-linear boundary value problems” 1133

Vojtěch Růžička

Nonoscillation of even order Euler type half-linear difference equations . . 1137

Anatoly M. Samoilenko and Lidiya M. Sergeeva

About global solution of nonhomogeneous neutral partial differential equation with deviating argument in the time variable 1163

Y. Soylu

Upper bounds on the diameter for Finsler manifolds with weighted Ricci curvature 1173

L.Q. Thuy, C.-F. Wen, J.-C. Yao, and T. N. Hai

An extragradient-like parallel method for pseudomonotone equilibrium problems and semigroup of nonexpansive mappings 1185



CONTENTS

Ü. Totur and İ. Çanak

On the Cesàro summability for functions of two variables 1203

Neşet Deniz Turgay

Invariants under decomposition of the conjugation in the mod 2 dual Leibniz-
Hopf Algebra 1217

S. K. Vaidya and N. J. Kothari

Distance k -domination in some cycle related graphs 1223

I. Varga

On investigation of some non-linear integral boundary value problem . . . 1233