

## Table of contents

An everyday strategy analysed via Control Theory .....	121
<i>Jesús Ildefonso Díaz and Iván Moyano</i>	
On the number of fixed points of a Boolean transformation .....	125
<i>Sergiu Rudeanu</i>	
Sharp integral inequalities based on general three-point formula via a generalization of Montgomery identity .....	132
<i>Josip Pečarić and Mihaela Ribičić Penava</i>	
Entropy solution to an elliptic problem with nonlinear boundary conditions .....	148
<i>Stanislas Ouaro and Arouna Ouedraogo</i>	
Uniqueness of strong solution for a 1D viscous bi-layer Shallow Water model .....	182
<i>Jean De Dieu Zabsonré and Adama Ouedraogo</i>	
Analytical approximate solutions of systems of differential-algebraic equations by Laplace homotopy analysis method .....	191
<i>R. Al-masaeed and H.M. Jaradat</i>	
Solving nonlinear fractional differential equation using a multi-step Laplace Adomian decomposition method .....	200
<i>Mohammad Zurigat</i>	
Exact parametric solutions of the nonlinear Riccati ODE as well as of some relative classes of linear second order ODEs of variable coefficients .....	211
<i>Dimitrios E. Panayotounakos, Theodoros I. Zampoutis, Panayotis Sotiropoulos and Anastasios G. Kostogiannis</i>	
Statistical Convergence of Triple Sequences on Probabilistic Normed Space .....	226
<i>Ekrem Savaş and Ayhan Esi</i>	
Slant submanifolds of Lorentzian almost contact manifolds .....	237
<i>Khushwant Singh, Siraj Uddin, S.S. Bhatia and M.A. Khan</i>	
Hilbert's integral inequality in whole plane with general homogeneous kernel ..	244
<i>Predrag Vuković</i>	
Approximate analytical solutions to the Bagley-Torvik equation by the Fractional Iteration Method .....	251
<i>Toufik Mekkaoui and Zakia Hammouch</i>	
Divisors of order $k$ .....	257
<i>Nicușor Minculete</i>	
Prime Ideals in $BCI$ and $BCK$ -Algebras .....	266
<i>R. A. Borzooei and O. Zahiri</i>	
Inequalities involving Mellin transform, integral mean, exponential and logarithmic mean .....	277
<i>A. Aglić Aljinović</i>	

Durrmeyer operators of King-type .....	288
<i>Ovidiu T. Pop, Adrian D. Indrea and Petru I. Braica</i>	
Properties of the Closure Operator in Peano Algebras .....	299
<i>Nicolae Țăndăreanu and Irina Tudor (Preda)</i>	
Optimization of Gear Changing using Simulated Annealing .....	309
<i>Alexandru P. Becheru and Cătălin Stoican</i>	
Running Hadoop applications in virtualization environment .....	322
<i>Mirel Coșulschi, Mihai Gabroveanu and Adriana Sbîrcea</i>	