

TABLE OF CONTENTS

October, 2012

Global stability for delay SIR epidemic model with vertical transmission	1
Junli Liu, Tailei Zhang	1
Thulium Doped Fiber Amplifier (TDFA) for S-band WDM Systems	5
Fady I. El-Nahal, Abdel Hakeim. M. Husein	5
Research on compound chaos image encryption method with clock-varying	10
MENG Xing, WANG XiaoMan, CHU Ying	10
Korea's Construction Business Informatization Overview and Future Plans	15
MyoungBae Seo, NamGon Kim	13
Statistical Theory of Turbulence by the Late Lamented Dr. Shunichi Tsugé	18
Takeo Nakagawa, Hiroyuki Iida	10
Othogonal Waveform Design for Multiple-Input Multiple-Output (MIMO) Radar Hai Deng	22
Global optimization of protein-peptide docking by a filling function method Francesco Lampariello, Giampaolo Liuzzi	26
	20
Friendship Decompositions of Graphs: The general problem Teresa Sousa	30
Automatic Feature Extraction from Ocular Images	
Ryszard S. Choraś	34
On Efficient Monitoring of Process Dispersion using Interquartile Range	
Shabbir Ahmad,Zhengyan Lin,Saddam Akber Abbasi,Muhammad Riaz	39
Counting Runs of Ones and Ones in Runs of Ones in Binary Strings	
Frosso S. Makri, Zaharias M. Psillakis, Nikolaos Kollas	44
Unification and Application of 3-point Approximating Subdivision Schemes of Varying	
Arity	
Abdul Ghaffar,Ghulam Mustafa,Kaihuai Qin	48
The integral equations of Compton Scatter Tomography	
M. K. Nguyen, T. T. Truong	53
Optimal Flows On Road Networks In Emergency Cases	
Nicola Pasquin,Luigi Rarità	57
Algorithm of Iterative Process for Some Mappings and Iterative Solution of Some	
Diffusion Equation	
Liu Wenjun,Meng Jinghua	62



ne uniform convergence of upwind schemes on layer-adapted mesnes for a singularly	
perturbed Robin BVP Quan Zheng, Fengxi Huang, Xiaoli Feng, Mengbin Han	66
Self-accelerating two-step Steffensen-type methods with memory and their applications	
on the solution of nonlinear BVPs	
Quan Zheng, Xiuhui Guo, Fengxi Huang	70
ACGA Algorithm of Solving Weapon - Target Assignment Problem	
Jiuyong Zhang, Xiaojing Wang, Chuanqing Xu, Dehui Yuan	74
Simulation of the Heat Transfer in the Nanocathode V.G. Daniov, V.Yu. Rudnev, V.I. Kretov	78
Dynamic Contact Problem for Slide Hinge	
Kazunori Shinohara,Ryoji Takaki,Takeshi Akita	82
On Satellite Communications Course Reform in Universities of 211 Project Xia kewen,Zhang zhiwei,Liu jianfei, Chi yue	87
Research On Construction Traffic Safety Measures Based On FAHP Model In Hydropower Project	
YANG Xiao-yan,XIE Xin-sheng,NIU Ya-ping,ZHU Xiao-long,DENG Chang-qi	91
The Equitable Total Chromatic Number of SomeJoin graphs	
MA Gang, MA Ming	96
Fuzzy Time Series Forecasting Based On K-Means Clustering Zhiqiang Zhang,Qiong Zhu	100
Cyclic codes of length 2k over Z8 Arpana Garg, Sucheta Dutt*	104
Interval Integration Revisited Sérgio Galdino	108
An Improved Particle Swarm Optimization Based on Repulsion Factor Zhang Jie, Fan Chaozan, Liu Bo,Shi Fugui	112
Synthesis, Optical and Surface Properties of the New Gemini Quaternary Ammonium	
Surfactants Containing DSD Acid-triazine Structure	
Maosheng Wana,Jinzhao Chena,Xinchun Shena,Chengbo Cao, Jinglan Guo	116
Oscillation Criteria of second Order Non-Linear Differential Equations Hishyar Kh. Abdullah	120
Dehazing for Image and Video Using Guided Filter	
Zheqi Lin,Xuansheng Wang	123
New solid state phosphate sensitive electrodes for routine environmental monitoring	
Fikru Tafesse	128
New Approach to Approximate Circular Arc by Quartic Bezier Curve	
Azhar Ahmad1, Rohaidah Masri,Jamaluddin M. Ali	132



Dynamic properties of structures with dampers modelled using fractional order	
derivatives	
Zdzisław Pawlak,Roman Lewandowski	138
A research on the Sports Tourism Special Project In Hainan International Tourism	
Island	
Xia Minhui, Wang Hui, Wang Xiaolin, SuYou	143
Investigation and Research on the Ordinary University High Level Track and Field	
Sports Teams in Sichuan Province	
Dawei Li1, Bin Wang2	148
Study on Entertainment Teaching Experiment for Track and Field in Physical	
Education Major	
Wang Bin,Li Xia	154
The foundation of "The Max Area Pattern" and Its Training Significance	
Yi Xu	159
Analysis of Awareness and Utilization of BIM in Civil Engineering	
Seo MyoungBae,Kim JinUk	166
Adaptive Robust State Observers of Uncertain Dynamical Systems with Time-Varying	
Delays	
Hansheng Wu	170
Hybrid PMM-MoM Method for the Analysis of Finite Periodic Structures	
Shan Zhao, Naiqian Zhang, Dong Li, Jianxun Su	175
Description of the derived categories of tubular algebras in terms of dimension vectors	
Hongbo Lv, Zhongmei Wang	179
Anomalous diffusion in a variable area whose boundary moves with a constant speed	
Xicheng Li	183
Branches of solutions for an asymptotically linear	
elliptic problem on RN	
Youyan Wan	187
Information Fusion for Process Acquisition in the Operating Room	
Thomas Neumuth, Christian Meißner	195
Analysis of Factors Affecting the Development of Competitive Level of Mountain	
Outdoor Sports	
Wangli Zhang	199
Implementation of LT Code with a Novel Degree Distribution	
Qingxiao Du, Xiaoqin Song, Ying Liu,Liping Zhao	203
Possibility Fuzzy Soft Expert Set	
Maruah Bashir, Abdul Razak Salleh	208
Finite dimensional factor algebras of F2[X1,, Xn] and their fixed point subalgebras	
r mice dimensional factor argeoras of r 2[A1,, Anj and their fixed point subargeoras	



Miroslav Kureš	212
Cross-kink multi-soliton solutions for the (3+1)-D Jimbo-Miwa equation	
Zhenhui Xu, Hanlin Chen	215
Multicut L-Shaped Algorithm for Stochastic Convex Programming with Fuzzy Probability Distribution	
Miaomiao Han,Xinshun MA	219
Regional Economic Development in the Chinese Mode Xiaokang Liu	223
Stechkin-Marchaud Type Inequalities in Lp for Linear Combination of Bernstein-Durrmeyer Operators	
Guo Feng1,Meiqin Ke2	228
Algorithm for Cost Non-preemptive Scheduling of Partial k-Trees Yiming Li,Zhiqian Ye,Xiao Zhou	233
A Theoretical Study on Health Quotient Promotion-based Physical Education Reform at the University Level	
Fujunfang	237
A Study on Ranged-Gated Lidar System with Linear Plus YU Lin-yao,WEI Qun,JIANG Hu-hai,ZHANG Tian-yi,WANG Chao,ZHU Rui-fei, JIANG Zhen-hai	243
Implementary Effect of Sunshine Sports Activities of Xin Xiang City Kaiwei Wang, Haikuo Yu	247
Existence and multiplicity on a parameter for a integral boundary-value problem Ran-Ran Han, Xiang-Gui Li, Jing-Liang Qiu	253
Limit Theorems of Branching Processes in Random Environments Liu Guilan, Hu Wei, Wang Yuejiao	258
Boundary value problem for a fractional integro-differential equation with Hadamard derivatives	
Shi-you Lin The Optimized Derivation for Structure Matrix in Circuit States Checking via Semi-tensor Product	262
Lu Shan Zhan Jinyu Yang Guowu	267
Inversion of Spatially Varying Parameters of a Marine Ecosystem Dynamical Model in the Bohai Sea, the Yellow Sea and the East China Sea	272
Jie Yu, Xianqing Lv	272
Estimation of the reliability and its applications Ming Han	277
Optimization via Simulation of Level of Repair Analysis Chefi Triki, Abdallah Alalawin, Gianpaolo Ghiani	281

Open Journal of Applied Sciences Supplement: 2012 world Congress on Engineering and Technology



Positive solutions for a boundary value problem with integral boundary conditions	
Xiaofang Liu, Meiqiang Feng, Jingliang Qiu	285
Traversable Wormhole Geometries In $f(R, T)$ Gravity	
Tahereh Azizi	290