2013 5th International Conference on Modeling, Simulation and Applied Optimization

(ICMSAO 2013)

Hammamet, Tunisia
28 – 30 April 2013

IEEE

IEEE Catalog Number: CFP1376N-PRT
ISBN: 978-1-4673-5812-5

Table of Contents

- Process Optimum Design 1

  Abdelkader Mazouz

- A two-stage technique to improve intrusion detection systems based on data mining algorithms 9

  Hachmi Fatma and Limam Mohamed

- Influence of Capacity Variation to Regulate Voltage Quality for Doubly Fed Induction Generator 15

  Yahia Saoudi, Nizar Derbel and Hsan Hadj Abdallah

- Solving Resource-Constrained Project Scheduling Problem by A Genetic Local Search Approach 19

  Olfa Dridi, Saoussen Krichen and Adel Guitouni

- Steady-State and Dynamic Modeling of Asynchronous Back-To-Back High Voltage Direct Current Link With Voltage Source Converters 24

  Djehaf M, Zidi S-A, Khatir M, Hadjeri S and Djilani Kobibi Y

- A Qualitative Modeling and Simulation Method Based on Cloud Model 30

  Chenxi Shao, Kelu Sun and Zhenzhong Shao

- Optimal Control Approach Developed to Four-Wheel Active Steering Vehicles 35

  Imen Amdouni, Nafaa Jeddi and Lilia EL Amraoui

- Modular Structural Analysis of Petri Nets for Distributed Causal Model-based Diagnosis 41

  Hammadi Bennoui and Kamel Barkaoui

- Benchmarking dynamic Bayesian network structure learning algorithms 47

Ghada Trabelsi, Philippe Leray and Mounir Ben Ayed

- Proposing a new mathematical formulation for modeling costs in a p-hub center problem 53

  Masoud Rabbani, Saeed Zameni and Seyed Mahmood Kazemi

- Pseudo Bond graph Model of a Thermo-Hydraulic System 57

  Emna Aridhi, Mehdi Abbes and Abdelkader Mami

- Development of Simulation-based optimization for controlling discharging operation of gasoil 62

  Nosaibeh Nosrati Ghods

- Neural Network Design Parameters for Forecasting Financial Time Series 67

  Assia Lasfer, Hazim El-Baz and Imran Zualkernan

- A new realistic modeling approach for two-echelon logistics network design 71

  Fatma Moalla, Racem Mellouli and Habib Chabchoub

- A clustering based simulated annealing approach for solving an un-capacitated single allocation p-hub location problem 77

  Zeinab Rasoulinejad, Mahdi Bashiri and Masoud Mehrbanfar

- Multicriteria Fuzzy Clustering for Brain Image Segmentation 83

  Olfa Limam and Fouad Ben Abdelaziz

- A discrete artificial bee colony algorithm for resource-constrained project scheduling problem 88

  Nouha Nouri, Saoussen Krichen and Talel Ladhari

- Active Control of Forced Vibrations in a Beam Via Maximum Principle 94

  Ismail Kucuk, Kenan Yildirim, The Late Ibrahim Sadek and Sarp Adali

- Optimal Power Flow with Emission Controlled using Firefly Algorithm 98

Ouafa Herbadji, Ketfi Nadhir, Linda Slimani and Tarek Bouktir

- A new Method for Improving Particle Swarm Optimization Algorithm (TriPSO) 104

  Mohammed Qais and Zeyad AbdulWahid

- Heuristics Approaches for the Industrial Storage Problem 110

  Salma Mezghani and Ahmed Frikha

- Manager's Preferences in the Bi-Objectives Bin Packing Problem 114

  Salma Mezghani, Habib Chabchoub and Belaïd Aouni

- Belief Hidden Markov Model for Speech Recognition 118

  Siwar Jendoubi, Boutheina Ben Yaghlane and Arnaud Martin

- Nonsmooth Newton's method for positive semi definite solution of nonlinear matrix equations 124

  Boubakeur Benahmed, Khadra Nachi and Adnan Yassine

- Numerical Investigation of Hybrid FRP Rienforced Beams 128

  Abdullah Al-Rahmani and Farid H Abed

- Finite element simulations of the shear capacity of GFRP-reinforced concrete short beams 134

  Farid H Abed, Abdullah Al-Rahmani and Ahmed H. Al-Rahmani

- Selecting Configuration Of Reverse Logistics Network Using Sustainability Indicators 139

  Soumaya Dhib, Taicir Loukil, Sid-Ali Addouche and Abderrahman El Mhamedi

- Arnoldi Model Reduction for Switched Linear systems 144

  Mohamed Kouki, Mehdi Abbes and Abdelkader Mami

- Particle Swarm Optimization based method for Bayesian Network Structure Learning 150

  Saoussen Aouay, Salma Jamoussi and Yassine Ben Ayed

- Mixture Periodic GARCH models: Applications to Exchange Rate Modeling 156

  Fayçal Hamdi and Said Souam

- Optimizing the Performance of Complex Maintenance Systems 162

  Chefi Triki, Abdallah Alalawin and Gianpaolo Ghiani

- Cycle-Service-Level in Guaranteed-Service Supply Chains 168

  Ayse Sena Eruguz, Zied Jemai, Evren Sahin, Yves Dallery

- New lower bounds for the blocking flowshop scheduling problem to minimize the total completion time criterion 174

  Said Toumi, Bassem Jarboui, Mansour Eddaly and Abdelwaheb Rebai

- The belief function theory within the framework of localizing an object 179

  Samah Yahia, Souhir Fterchi and Mohamed Nacer Abdelkrim

- Optimizing Cost and Quality of International Calls Routing Using Multi-Objective Optimization Techniques 183

  Fouad Ben Abdelaziz and Samer El Gamal

- Performance of Tunisian enterprises integrating quality system, ERP (Enterprise Resource Planning) and SCM (Supply Chain Management) 190

  Ismahene Aouadni and Abdelwaheb REBAI

- Inventory management with supplier selection problem: Supply uncertainty 194

  Sourour Aouadni and Abdelwaheb Rebai

- A consistent test for Unit Root against fractional alternative 199

  Ahmed BENSALMA

- A metaheuristic for solving the single-product/single-robot hoist scheduling problem under environmental costs 205

  R. Ben Othmen, S. Hajri Gabbouj and T. Ladhari

- Firefly algorithm based energy loss minimization approach for optimal sizing & placement of distributed generation 212

  Ketfi Nadhir, Djabali Chabane and Bouktir Tarek

- Dyadic supply chains efficiency: A new theoretical framework to consider members power relationship and decision makers preferences 217

  Walid Abdelfattah and Abdelwaheb Rebai

- A new modelling for p-hub median problem by considering flow-dependent costs 222

  Masoud Rabbani, Farhang Pakzad and Seyed Mahmood Kazemi

- Understanding soft evidence as probabilistic evidence : illustration with several use cases 226

  Ali Ben Mrad, Véronique Delcroix, Sylvain Piechowiak, Mohamed Amine Maalej and Mohamed Abid

- Effect of Wastes on Changeover Time in Garment Industry 232

  Bessem Kordoghli and Ali Moussa

- A new web-based solver for Combinatorial Optimization Problems under Permutation Property 235

  Lamia Trabelsi and Talel Ladhari

- A New Compression Framework: 'A-M' adaptive Code 241

  Ahmed Mokhtar, A.Mansour and M. A. Fouad

- Improvement Heuristic For Solving The One-Dimensional Bin-Packing Problem 246

  Sofiene Abidi, Saoussen Krichen, Enrique Alba and Juan M. Molina

- An iterated greedy heuristic for the static empty vehicle redistribution problem for the Personal Rapid Transit system 251

  Ezzeddine Fatnassi, Olfa Chebbi and Jouhaina Chaouachi Siala

- Evaluation of different vehicle management strategies for the Personal Rapid Transit System 256

  Ezzeddine Fatnassi, Olfa Chebbi and Jouhaina Chaouachi Siala

- A particle swarm optimization for solving the one dimensional container loading problem 261

  Takwa Tlili, Sami Faiz and Saoussen Krichen

- Benchmarking chains of hardware retail stores in Canada 265

  Pawoumodom M. Takouda and Mohamed Dia

- On the modeling of causal belief networks 271

  Imen Boukhris, Zied Elouedi and Salem Benferhat

- Comparing Multi-Criteria Decision Aid Methods Through a Ranking Stability Index 277

  Mbarka Selmi, Tarek Kormi and Nizar Bel Hadj Ali

- Setting up the water balance simulation model WaSiM for the assessment of climate change impacts in Chiba basin, Tunisia 282

  Franz Hummel, Joachim Post, Günter Strunz, Ralf Ludwig, Annemarie Hoffmann and Sihem Benabdallah

- An Interactive Goal Programming Model Based on the Satisfaction Functions 288

  Aouni Belaid, Martel Jean-Marc and Hassaïne Amal

- Solution to An Attack on Digital Signature in SMS Security 293

  Neetesh Saxena, Narendra S. Chaudhari and Jaya Thomas

- Dynamic Group Transit Scheme for Corridor Transit 299

  Ondrej Vanek and Michal Pechoucek

- Nonlinear system identification of Hestersis-Backlash in Hammerstein models 305

  Elayyan Elamari

- Influence of spatio-temporal variability of soil surface states on the watershed hydrology behaviour - case study of El hnach waterhed in Tunisian semi arid 311

  Hajji Olfa, Hermassi Taoufik, Habaieb Hamadi and Mohamed Raouf Mahjoub

- Fatigue crack initiation and vibration prediction life of turbine blade 316

  S. Lecheb, T.Djeddid, A.Chellil, A. Nour, M.Cherigui and H. Kebir

- Considering tributaries to reconstitute an extreme event on a portion of the Medjerda river 322

  Abidi Sahar, Habaieb Hamadi and Hermassi Taoufik

- Linearized State-Space Model of the behavior of MR-Fluid Dampers 326

  A.H. ElSinawi, Ali Jhemi and Mohammad AlHamaydeh

- Adaptive Seismic Isolation of Structures Using MR-Fluid Dampers 331

  Ameen El Sinawi, Ali Al Jhemi and Mohammad AlHamaydeh

- Aeroelastic stability analysis of composite rotor blade 337

  A.Chellil, A.T.Settet, S.Lecheb, A.Nour, A.Yahiaoui and H.KEBIR

- Assessment of the SWAT model prediction uncertainty using the GLUE approach: A case study of the Chiba catchment (Tunisia) 341

  Haykel Sellami, Marnik Vanclooster, Sihem Benabdallah and Isabelle La Jeunesse

- Effect of the design moldboard on the tillage forces 347

  Ayadi Ibrahmi, Hatem Bentaher and Aref Maalej

- SCADA application of a Water Steam Cycle of a Thermal Power Plant 353

  Mohamed Najeh Lakhoua

- Behavior study of genetic operators for the minimum sum coloring problem 358

  Hend Bouziri and Olfa Harrabi

- A RBN-based recommender system architecture 364

Mouna Ben Ishak, Nahla Ben Amor and Philippe Leray

- Solar Tower Plant Implementation in northern Algeria: Technico economic assessment 370

  Salah Boudaoud, Abdallah Khellaf and Kamel Mohammedi

- Sustainable Supply Chains Optimization Mathematical Modeling Approach 376

  Amin Chaabane

- Design of a device for transferring power and data to a cochlear implant 382

  Kaoula Tayari, Mondher Chaoui, Mongi Lahiani and Hamadi Ghariani

- Verifying Web Services Substitutability Using Open Colored Nets Reduction Techniques 387

  Sofiane Bourouz and Nadia Zeghib

- Automatic Web Services Composition Using Maude Strategies 392

  Latreche Fateh, Sebih Hacene and Belala Faiza

- Dual-Top-Gated Graphene field-effect transistors to improve the subthreshold swing for digital applications 399

  K. Tamersit, F. Djeffal, D. Arar and M. Meguellati

- An efficient Branch and Bound algorithm to solve the permutation flowshop scheduling problem with blocking constraints 403

  Said Toumi, Bassem Jarboui, Mansour Eddaly and Abdelwaheb Rebai

- Genetic Local Search Algorithm for minimizing the total completion time in single machine scheduling problem with release dates and precedence constraints 409

  Ichraf Zaidi, Mehdi Mrad and Talel Ladhari

- Computation of Resource Circuits of Petri Nets by Using Binary Decision Diagrams 413

  YuFeng Chen, Ding Liu, GaiYun Liu and Kamel Barkaoui

- The Home Care Scheduling Problem: A modeling and solving issue 419

  Jaber Jemai, Marouen Chaieb and Khaled Mellouli

- Multi-input Single-Output (MISO) Random System Modeling Using Methods of System Identification 425

  Ameen El-Sinawi, Hazim El-Baz and Noha Tarek Amer

- Assessing the impacts of climate change in Mediterranean catchments under conditions of data scarcity - The Gaza Case Study 431

  David Gampe, Ralf Ludwig and Samir Afifi

- Comparison of Green & Ampt and reservoir model effect on Rainfall-Runoff response (Study case: Skhira basin) 436

  Hana Gharbi, Samah Chargui and Mohamed Slimani

- A multi-objective modeling of K-coverage problem under accuracy constraint 442

  Matthieu Le Berre, Faycal Hnaien and Hichem Snoussi

- An Optimization Tool for Intersection Design 448

  Nikiforos Stamatiadis, Adam Kirk and Nithin Agarwal

- Design and implementation of Direct Torque Control of Induction Machine on FPGA 453

  Soufien Gdaim, Abdellatif Mtibaa and Mohamed Faouzi Mimouni

- Data Hiding in Spatial Domain Image Using Chaotic Map 459

  Soumaya Zaghbani and Rhouma Rhouma

- Modelling a Unified Power Flow Controller for the Study of Power System Steady state and Dynamic Characteristics 464

  Djilani Kobibi Youcef, Hadjeri Samir, Zidi Sid Ahmed and Djehaf Mohamed

- Using clustering for maintaining case based reasoning systems 470

  Abir Smiti and Zied Elouedi

- A MATLAB program for identifying the rainfall variability in rainfall-runoff modeling in Semi arid region (Merguellil basin: Central Tunisia) 476

Sameh Chargui , Hana Gharbi and Mohamed Slimani

- A PSO Algorithm for Economic Scheduling of Power System Incorporating Wind Based Generation 482

  F. Benhamida, Y. Salhi, S. Souag, A. Graa, Y. Ramdani and A. Bendaoud

- A New Software for Power flow solution computing using LabVIEW 488

  Slimane Souag, Farid Benhamida, Fatima Zohra Gherbi and Amel Graa

- Measurements Uncertanity and Modeling Reliability of GaN HEMTs 494

  Anwar Jarndal

- A Simplified Modelling Approach for AlGaN/GaN HEMTs Using Pinched Cold S-parameters 498

  Anwar Jarndal

- On solving the bi-objective aircraft cargo loading problem 502

  Nadia Dahmani and Saoussen Krichen

- Incremental Bayesian network structure learning in high dimensional domains 508

  Amanuallah Yasin and Philippe Leray

- Genetic based Effective Column Generation for 1-D Cutting Stock Problem 514

  Jaya Thomas, Narendra S. Chaudhari and Neetesh Saxena

- Linear Models for the Total Coverage Problem in Wireless Sensor Networks 519

  Maher Rebai, Hichem Snoussi, lyes Khoukhi and Faicel Hnaien

- A Dynamic Approach for the Two-decision Maker Selection Problem with Group Interviewing Options 523

  Sihem Ben Jouida, Hajer Ben-Romdhane and Saoussen Krichen

- A heuristic for the network migration scheduling problem 529

  Ali Balma, Nejib Hadj-Alouane and Atidel B. Hadj-Alouane

- An Efficient Character Recognition Scheme Based on K-Means Clustering 535

  Sajjad Pourmohammad, Reza Soosahabi and Anthony S. Maida

- A Fast New Method to Mitigate Amplifier-Induced ICI in OFDM systems Based on Predistortion in DFT Domain 541

  Reza Soosahabi, Nasim Nasirian, Mort Naraghi-Pour and Magdy Bayoumi

- Complexity adaption of simulation models in a function-based modular framework 546

  Florian Netter, Frank Gauterin and Chu Xu

- Vendor selection using Goal Programming with Satisfaction Functions 552

  Smaoui Soulef and Jedidi Hichem

- Numerical Investigation To Study Airfoil Efficiency In Plunging Motion 557

  Mohamed Mehdi Oueslati, Anouar Wajdi Dahmouni, Mohieddine Ben Salah and Sassi Ben Nasrallah

- Evaluation of qualitative possibilistic influence diagrams using strong junction trees 562

  Fatma Essghaier, Nahla Ben Amor and Hélène Fargier

- A new lower bound for minimising the total completion time in two-machine flow shop under release dates 568

  Sabrine Chalghoumi, Mehdi Mrad and Talel Ladhari

- Generating maximal efficient faces for the multiobjective multicommodity flow problem 572

  Hela Masri, Saoussen Krichen and Adel Guitouni

- An Evaluation of the Risk Impact of Device Heterogeneity on Critical Care Delivery 577

  Mohamed Khedr Saad, Bilal Khan and Ghassen Ben Brahim

- Mixed Integer Lifted Cover Inequalities for knapsack problems with a single continuous variable 583

  Pasqaule Avella, Sara Mattia and Maurizio Boccia

- A MILP formulation for a batch scheduling problem on parallel machines in the aircraft industry 587

  Maurizio Boccia, Giuseppe Bruno and Claudio Sterle

- Nonlinear Multivariate Statistical Process Monitoring of a Water Treatment Plant 593

  Khaled MENDACI, Messaoud RAMDANI and Toufik BENZARAA

- An arc flow model for the two stages variable size cutting stock problem 599

  Ines Meftehi and Mehdi Mrad

- Finite Element Modeling and Dynamic Simulation of Nonlinear VRM using MATLAB 603

  Tariq Benamimour, Amar Bentounsi, Hind Djeghloud, and Ilhem Bouchareb

- Modelling of Polyaniline for Wi-Fi electromagnetic interference shielding 608

  Whamid Al-Shabib and Stefan W. Lachowicz

- Effect of Driver & Vehicle Characteristics on Speeds at a Tangent Section of a Rural Highway in Jordan 611

  Bashar Al-Omari, Ashraf Al-Ja'afari and Ghassan Abu-Lebdeh

- A Genetic Algorithm for the Two-level Location Area Planning in Telecommunication Networks 615

  Ons Abdelkhalek, Saoussen Krichen and Adel Guitouni

- Integrated Surface and Departure Management at Airports by Optimization 621

  Dag Kjenstad, Carlo Mannino, Patrick Schittekat and Morten Smedsrud

- Metaheuristic Algorithms Comparison for the LC - Voltage Controlled Oscillators Optimal Design 626

  P. Pereira, M. Kotti, H. Fino and M. Fakhfakh

- Iterated Local Search and Iterated Greedy Local Search for Two machines Permutation Flowshop Scheduling Problem with Time Lag 632

Amdouni Hajer and Ladhari Talel

- Heuristics for Rich Profitable Tour Problems 636

  Rahma Lahyani, Khemakhem Mahdi and Frédéric Semet

- Simulating the effects of the passage of tractors on agricultural land 639

  Elaoud, S. Chehaibi and K. Abrougui

- An optimised submicron Dual-Material gate (DM) GaAs-MESFETs design to improve the analog performance using multi-objective computation 645

  N. Lakhdar, F. Djeffal, D. Arar, M. Meguellati and T. Bendib

- Fuzzy relative importance of customer requirements in Improving Product Development 650

  F.Bencherif, L. H. Mouss and M. Meguellati

- Profile-based Sensitivity in the Design of Experiments for Parameter Precision 656

  Hana Sulieman

- On The Synthesis of digital two dimensional filters based on FIR filters approximation 660

  Amel B. H. Adamou-Mitiche, Lahcène Mitiche and Vasile Sima

- Combined optimization of shipping and storage costs in a multi-product and multi-level supply chain, under a stochastic demand 666

  Tikito Kawtar, Achchab Said and Benadada Youssef

- Sharing demand forecasts in a basic supply chain using game theory 670

  Ilham SLIMANI and Said ACHCHAB

- A fuzzy stochastic goal programming approach for solving portfolio selection problem 674

  Laila Messaoudi and Abdelwaheb rebai

- K-Means clustering based on Gower Similarity Coefficient: A comparative study 679

  Bilel Ben Ali and Youssef Massmoudi

- Solving the Person-based Multitask Shift Generation Problem With Breaks 684

Nico Kyngäs, Kimmo Nurmi and Jari Kyngäs

- Reliability estimation with Extrinsic and Intrinsic measure in belief function theory 692

  Ahmed Samet, Eric Lefèvre and Sadok Ben Yahia

- Vibration characterization using gaussian laser beam 698

  Naveed A. Abbasi, Taha Landolsi and Rached Dhaouadi

- A Variable Neighborhood Descent for solving the Single Machine Total Weighted Tardiness Problem 705

  Hiba Yahyaoui, Saoussen Krichen, Bilel Derbel and El-Ghazali Talbi

- Solving the Steiner Tree Problem with Revenues, Budget and Hop Constraints to optimality 711

  Safa Bhar Layeb, Ines Hajri and Mohamed Haouari

- Multi Agent based Joint Production and Maintenance Scheduling Considering Human Resources 715

  Sabrina Bouzidi-Hassini and Fatima Benbouzid-Sitayeb

- Implementation of a Hydrological modeling of groundwater recharge for the Chiba catchment (Cap-Bon, Tunisia) 720

  Asma Chemingui, Faten Horriche and Claudio Paniconi

- Peer-to-Peer Communication on Android-Based Mobile Devices: Middleware and Protocols 724

  Waheb A. Jabbar, M. Ismail and R. Nordin

- Multi-Criteria Decision Support Systems: A Glorious History and a Promising Future 730

  Aouni Belaid and Jamil Razmak

- Existence and uniqueness of the inversion of a generalized Radon transform 739

  Rim Gouia-Zarrad

- ANFIS-based computation to study the nanoscale circuit including the hot-carrier and quantum confinment effects 741

  T. Bentrcia, F. Djeffal, D. Arar and M. Meguellati

- An optimized GSDG MOSFET design for nanoscale circuit applications 746

  D. Arar, F. Djeffal, M. Meguellati and M. Chahdi

- Short-Term Wind Power Forecast for Economic Dispatch 750

  Fatemeh Marzbani, Ahmed Osman, Mohamed Hassan and Taha Landolsi

- Modeling of Solid Oxide Fuel Cells (SOFCs): An Overview 756

  Michael Lee, Gunhyung Park and Verica Radisavljevic-Gajic

- The three Statistical Control Charts using Ranked Set Sampling 762

  Mu'azu Ramat Abujiya and Muhammad Hisyam Lee

- Artificial Bee Colony Metaheuristic to Find Pareto Optimal Solutions Set for engineering design problems 768

  Saïma Dhouib, Souhail Dhouib and Habib Chabchoub

- The Genetic algorithm with two-point crossover to solve the Resource-Constrained Project Scheduling Problems 772

  Héla Ouerfelli and Abdelaziz Dammak

- Multi-Criteria Inventory Classification Problem: A consensus approach 776

  Imen Lajili, Talel Ladhari and M.Zied Babai

- New computational results with an exact knapsack separation procedure for structured Binary Integer Programming problems 782

  Maurizio Boccia, Said Hanafi and Igor Vasilyev

- Logic-based Benders decomposition to solve the permutation flowshop scheduling problem with time lags 787

Imen Hamdi and Taïcir Loukil

- A Balanced Approach for Hazardous waste allocation problem 794

  Ines Kanoun, Youssef Masmoudi, Habib Chabchoub and Belaid Aouni

- Thermal Simulation Approach to the Cooling of a Power IGBT by Heat Pipes 800

  Améni Driss, Samah Maalej and Mohamed Chaker Zaghdoudi

- Numerical Analysis of Flows and Heat Transfer Within Grooved Flat Mini Heat Pipes 806

  Jed Mansouri, Samah Maalej, Mohamed Ben Hassine Sassi and Mohamed Chaker Zaghdoudi

- Simulation of air lift packed column 813

  Adel Oueslati, Ahmed Hannachi and Mohamed Elmaaoui

- Scenario Generation for Multi-objective Stochastic Portfolio Selection 818

  El Fayedh Rimeh, Ben Abdelaziz Fouad and Aouni Belaid

- Demand Responsive Transport Problem A new modelization of static case 824

  Manel Ayadi, Habib Chabchoub and Adnan Yassine

- Particle swarm optimization for support vector clustering "Separating hyperplane of unlabeled data" 829

  Souad Chaabouni, Salma Jammoussi and Yassine Benayed

- Novel Modeling Paradigm For The Algal Production Of Biofuel 835

  Rohit Sharma, Avanish K Tiwari and G. Sanjay Kumar

- The inclusion interaction between an anti inflamatory with β-cyclodextrin 841

  Sahra Khalil, Dinar Karim and Kadri Mekki

- Behavior of compiled bases in compilation-based inference methods for min-based possibilistic networks 845

  Raouia Ayachi, Nahla Ben Amor and Salem Benferhat

- Simulation docking of an anti-bacterial in β-cyclodextrin 851

  Dinar Karim, Sahra Khalil and Kadri Mekki

- Data Mining Techniques to Predict Protein Secondary Structures 855

  Sondès Fayech, Nadia Essoussi and Mohamed Limam

- Modeling of creep in GFRP RC Beams 860

  Abdelmonem Masmoudi, Mongi Ben Ouezdou and Mohamed Anouar BELDI

- On CPN-based Verification of Hierarchical Formalization of UML 2 Interaction Overview 865
  Diagrams

  Aymen Louati, Chadlia Jerad and Kamel Barkaoui

- A classification approach to extract biological events 871

  Maha Amami, Rim Faiz and Aymen Elkhlifi

- The Embedded Control System through Real-Time Task 877

  Atef Gharbi, Mohamed Khalgui and Samir Ben Ahmed

- Sensitivity analysis of SWAT model to the spatial rainfall distribution and watershed 885
  subdivision in streamflow simulations in the Mediterranean context: a case study in the
  Joumine watershed. Tunisia.

  Jalel Aouissi, Sihem Benabdallah, Zohra Lili Chabaâne and Christophe Cudennec

- Equilibrium customers strategies in a single server M2/M/1 queue 891

  Fazia Rahmoune, Mohammed Said Radjef and Sofiane Ziani

- On one approach for solving of some class of Multiobjective optimization problems with 894
  interval coefficients

  Sharif E. Guseynov and Sergey V. Drobyshev

- A Compilation based Approach to Inference in Dynamic Evidential Networks 902

  Laamri Wafa, Boutheina Ben Yaghlane and Christophe Simon

- Hestitant-Fuzzy-Promethee method 910

  Sonia Hajlaoui and Nesrin Halouani

- Imbricating Tasks in a Multichannel Contact Center 916

  Benjamin Legros, Oualid Jouini and Ger Koole

- A Formal Task Model for Flexible Workflows Systems 922

  Rim Hachicha

- Comparison Between Continuous Review Inventory Control Systems for Perishables With Deterministic Lifetime and Lead Time 929

  Chaaben Kouki, Zied Jemai, Evren Sahin and Yves Dallery

- Effect of planned marina on Enfidha groundwater (Tunisia) A local-scale groundwater modeling 935

  Faten Jarraya Horriche, Mounira Zammouri and Sihem Benabdallah

- A characterization of fuzzy strategy-proof Social Choice Functions 939

  Olfa Meddeb, Fouad Ben Abdelaziz and Jos Rui Figueira

- A Robust Detection and removal of beard from three dimensional human face 944

  Dhahri Rokaya and Samir Belaid

- Modeling Historical Traffic Data using Artificial Neural Networks 949

  Mohammad S. Ghanim, Ghassan Abu-Lebdeh and Kamran Ahmed

- Microscopic Simulation Study of Transit Signal Priority Implementation Along an Arterial Corridor 953

  Mohammad S. Ghanim, Ghassan Abu-Lebdeh and Kamran Ahmed

- The Impact of Mid-Block Crossing on Urban Arterial Operational Charactersitcs using Multimodal Microscopic Simulation Approach 957

  Mohammad S. Ghanim and Sameer A. Abu-Eisheh

- Informational market efficiency in GCC region: A comparative study between Islamic and conventional markets 962

  Leila Gharbi and Khamoussi Halioui

- On the effectiveness of the coupling FEM-BEM approach for solving the elasto-plastic problems 967

  Aour Benaoumeur, Boumaiza Daho and Khelil Fodhil

- On parameters optimization of dynamic weighted majority algorithm based on Genetic Algorithm 973

  Dhouha Mejri, Mohamed Limam and Claus Weihs

- Selection of Pertinent Acoustic Features for Detection of Pathological Voices 979

  Lotfi Salhi, Adnane Cherif

- Towards a multi_agent system for manufacturing reconfiguration 985

  Wiem Mrabet and Talel Ladhari

- A multi-period supply chain design with product life cycle considerations 991

  Besbes Khaoula, Loukil Taicir, Allaoui Hamid and Goncalves Gilles

- Do CEOs Personal Characteristics Matter on Transport Firm Value? a Stochastic Frontier Model 997

  Ezzeddine Ben Mohamed, Sami Jarboui, Amel Baccar and Abdelfettah Bouri