2009 2nd Conference on Data Mining and Optimization

27-28 October 2009, Bangi, Selangor, Malaysia

Sponsor/Organizer:

Data Mining and Optimization Research Group
Universiti Kebangsaan Malaysia

Technical Co-sponsor:

IEEE
Malaysia Section

IEEE Computer Society
Malaysia Chapter

IEEE Catalog Number: CFP0982H


Library of Congress: 2009906215
TABLE OF CONTENTS

Preface

Organizing Committee

KEYNOTE AND PLENARY ADDRESSES

Knowledge Discovery and Management in Life Sciences: Impacts and Challenges
Fazel Famili

The Application of Primitive Heuristics to Constraint Satisfaction for Complex Real World Optimisation
Paul McMullan

University Spin Outs: The Balance Between Research and Practice
Barry McCollum

TECHNICAL PAPERS

Data Warehouse and Web-Based OLAP for Hotspot Distribution in Indonesia
G. Hayardisi, I. S. Sitanggang and L. Syaufina

Scalable Approach for Mining Association Rules from Structured XML Data
Ashraf Abazeed, Ali Mamat, Md Nasir Sulaiman and Hamidah Ibrahim

Dynamic Data Discretization Technique based on Frequency and K-Nearest Neighbour algorithm
Almahdi Mohammed Ahmed, Azuraliza Abu Bakar and Abdul Razak Hamdan

Classification for Talent Management Using Decision Tree Induction Techniques
Hamidah Jantan, Abdul Razak Hamdan and Zulaiha Ali Othman

Multi-Neighbourhood Particle Collision Algorithm for Solving Course Timetabling Problems
Anmar Abuhamdah and Masri Ayob

Metaheuristic Approaches for Optimizing Agricultural Land Areas
Ismadi Badarudin, Abu Bakar Md Sultan, Md Nasir Sulaiman, Ali Mamat and Mahmud Tengku Muda Mohamed

Mining Generalized Features for Writer Identification
Azah Kamilah Muda, Siti Mariyam Shamsuddin and Maslina Darus

Classification of Students’s Performance in Computer Programming Course According to Learning Style
N. M. Norwawi, S. F. Abdusalam, C. F. Hibadullah and B. M. Shuaibu
A Fuzzy Time Series Model in Forecasting Malaysian Government Direct Tax Collection
Lazim Abdullah and Loh Chen Woon

Dissimilarity Algorithm on Conceptual Graphs to Mine Text Outliers
Siti Sakira Kamaruddin, Abdul Razak Hamdan, Azuraliza Abu Bakar and Fauziah Mat Nor

Vehicle and Driver Scheduling Modeling: A Case Study in UKM
Ahmed Oughalime, Wan Rosmanira Ismail, Liong Choong Yeun and Masri Ayob

Optimization Model in Timber Harvest Planning Based on An Incremental Solution Approach
Munaisyah Abdullah, Salwani Abdullah, Abdul Razak Hamdan and Roslan Ismail

A Note on the P-time Algorithms for Solving the Maximum Independent Set Problem
Navid Nasr Esfahani, Parisa Mazrooei, Kaveh Mahdaviani and Behnaz Omoomi

Filter-Wrapper Approach to Feature Selection Using RST-DPSO for Mining Protein Function
Shuzlina Abdul Rahman, Azuraliza Abu Bakar and Zeti Azura Mohamed Hussein

An Exploratory Study in Classification Methods for Patients’ Dataset
Sofianita Mutalib, Nor Azlin Ali, Shuzlina Abdul Rahman and Azlinah Mohamed

Capturing Uncertainty in Associative Classification Model
Yun-Huoy Choo, Azuraliza Abu Bakar and Azah Kamiah Muda

Parameter Setting Procedure via Quick Parameter Evaluation in Frequent Pattern Mining for Outbreak Detection
Zalizah Awang Long, Abdul Razak Hamdan and Azuraliza Abu Bakar

A Classification of “Gracilaria changii” Protein Sequences Using Back-Propagation Classifier
Nur Shazila Mohamed, Zulaiha Ali Othman and Azuraliza Abu Bakar

An Exploration Study of Nurse Rostering Practice at Hospital Universiti Kebangsaan Malaysia
Mohammed Hadwan and Masri Binti Ayob

Hybridization Multi-Neighbourhood Particle Collision Algorithm and Great Deluge for Solving Course Timetabling Problems
Anmar Abuhamdah and Masri Ayob

Incorporating Tabu Search into Memetic Approach for enrolment-based Course Timetabling Problems
Hamza Turabieh and Salwani Abdullah

Hybrid Ant Colony Systems For Course Timetabling Problems
Masri Ayob and Ghaith Jaradat

Examination Timetabling Using Scatter Search Hyper-Heuristic
Nasser R. Sabar and Masri Ayob
Building A New Taxonomy For Data Discretization Techniques
Azuraliza Abu Bakar, Zulaiha Ali Othman and Nor Liyana Mohd Shuib

Iterated Two-stage Multi-neighbourhood Tabu Search Approach for Examination Timetabling Problem
Ariff Md Ab Malik, Masri Ayob and Abdul Razak Hamdan

Incorporating Great Deluge Approach with Kempe Chain Neighbourhood Structure for Curriculum-Based Course Timetabling Problems
Khalid Shaker and Salwani Abdullah

Data Mining In Production Planning and Scheduling: A Review
Ruhaizan Ismail, Zalinda Othman and Azuraliza Abu Bakar

Improvement DACS3 Searching Performance using Local Search
Helmi Md Rais, Zulaiha Ali Othman and Abdul Razak Hamdan

Authors Index