2011 IEEE International Conference on Service Operations and Logistics and Informatics

(SOLI 2011)

Beijing, China 10 – 12 July 2011



IEEE Catalog Number: ISBN: CFP11SOL-PRT 978-1-4577-0573-1

Contents

SP11 Service Operation Methodologies I

A Three-Stage Method to Find Refining Schedules of Crude Oil Operations in Refinery, pp.1-6 Naiqi Wu; LiPing Bai; MengChu Zhou

Reselection from Pareto efficient solutions of linear multi-objective programming, pp.7-11 Benjiang Ma; Chunyan Cui; Chunqiao Tan; Xiaohong Chen

Bayesian estimation of multinomial probit model for Commuter mode choice, pp.12-15 Lijun Yu; Qiuyan Xie

Towards Automatic Incremental Synchronization of Multiple Process Models via Information Flow Optimization, pp.16-21 Qinhua Wang; Changrui Ren; Jin Dong; Feng Chen; Jinfeng Li; Miao He; Bing Shao

A Transit Fleet Replacement Model for Emissions Reduction, pp.22-25 Jing Gong; Chaozhong Wu

SP21

Financial, Healthcare and Public Service

Enhancing the Rural Self Help Group - Bank Linkage Program, pp.26-31 Vikas Agarwal; Vikram Desai; Shalini Kapoor; Ponnurangam Kumaraguru; Sumit Mittal

Incentives to Enable Food Traceability and Its Implication on Food Traceability System Design, pp.32-37 Fengchun Wang; Rongzeng Cao; Wei Ding; Heng Qian; Yongchao Gao

Online Strategies for Optimizing Medical Supply in Disaster Scenarios, pp.38-44 Dennis Güttinger; Eicke Godehardt; Andreas Zinnen

Police Patrol Service Optimization Based on the Spatial Pattern of Hotspots, pp.45-50 Li Li; Zhongbo Jiang; Ning Duan; Weishan Dong; Ke Hu; Wei Sun

SP12 Service Operation Methodologies II

Modeling Cross-Organizational Services Composition with Pi-Calculus, pp.51-56 Feng Chen; Changrui Ren; Jin Dong; Qinhua Wang; Jinfeng Li; Bing Shao

An Optimized Modeling Method based on BPEL2WS, pp.57-61 Sheng Liu; Gang XIONG; Dong FAN; Jianshi YAO

Representing Resources in Petri Net Models: Hardwiring or Soft-coding?, pp.62-67 Reggie Davidrajuh

Participatory Service Design for Emerging Markets, pp.68-73 G.R. Gangadharan; Anshu N. Jain; Nidhi Rajshree; Alan Hartman; Amit Agrahari

Empirical Analysis of The Financial Risk in The Coal Industry, pp.74-76 Jinfa Shi

SP22

Flexible Services and Manufacturing

Changes and Challenges in the After Sales Service due to the Electric Mobility, pp.77-82 Uwe Dombrowski; Christian Engel; Sven Schulze

A Collaborative Requirement Elicitation Technique for SaaS Applications, pp.83-88 Xin Zhou; Li Yi; Ying Liu

An approach to calculate the value of a company, pp.89-94 Ding Wei; Rong Zeng Cao

Ranking with Relative Comparisons for Evaluating Supermarket Location Cities, pp.95-100 Xinxin Bai; Guangyun Chen; Haifeng Wang; Meng Zhang; Wenjun Yin; Jin Dong

A Low-carbon Production Scheduling System Considering Renewable Energy, pp.101-106 Xiaoqing Wang; Hongwei Ding; Minmin Qiu; Jin Dong

MA11

Safety-related Services and Management

Computational Experiments GPU-based for Long-term Safety Operation of Chemical Industry, pp.107-111 Xiaochao Lang; Dalei Guo

An ACP-based Framework for Occupants Safety Evacuation under Fire in High-rise Buildings, pp.112-115 Hu Yuling

ACP Theory based Plant Human Machine Interaction Evaluation, pp.116-120 Xiwei Liu; Xiaowei Shen; Dong Fan

Pipe Failure Prediction, pp.121-125 Chun Hua Tian; Jing Xiao; Jin Huang; Felipe Albertao

Cloud Computing & Knowledge Management

Information Quality Issues in Municipal Governments, pp.126-131 Stacy Hobson; Rangachari Anand; Xuan Liu; Jeaha Yang; Juhnyoung Lee

Tenant Behavior Analysis in Software as a Service Environment, pp.132-137 Ning Duan; Xin Zhang; Wei Sun; Ke Hu

Survey on Secure Data Aggregation for Wireless Sensor Networks, pp.138-143 Jia Guo; Jian'an Fang; Xuemin Chen

PH01 Poster Session

Application of Fuzzy Comprehensive Evaluation Based on Variable Weight in Risk Assessment for Contract Project, pp.144-147 Xiazhong Zheng; Huafei Li; Qiaoling Chen

Evaluation of Chemical Emergency Operation considering behavioral effect, pp.148-153 Wei Wei Wei; Ding Wen ; Changjian Cheng

Design of a High-precision Fuzzy Controller in Tobacco First Baking, pp.154-156 Che Guolin

An Empirical Research on Investment, Employment and Economic Growth in Beijing, pp.157-161 Ruilong Li; Ningjie Yu; Rui Chen

A Hybrid Particle Swarm Optimization Approach for Design of Agri-food Supply Chain Network, pp.162-167 Xia Zhao; Jianping Dou

Factors Analysis of Urban Transport System in Beijing: Based on System Dynamics, pp.168-171 Tian-Jian Yang; Lin Wu

Study On The Integration Model Of ERP And APS Based On CORBA Static Invocation, pp.172-176 Wei Wang; Wei Liu

Mechanism of Logistics information in reverse tracking system under E-commerce, pp.177-181 Yang Yang; Wang HaoYu

On The Service As A Logical Thing, pp.182-185 Liu Bangfan; Zhang Jing; Liu Naixi

MA12

Industrial Applications

Vulnerability Analysis of Power Grid Based on Multi-Agent Complex Systems, pp.186-190 Xisong Dong; Gang Xiong; Jiachen Hou; Dong Fan; Timo R. Nyberg

Servitization Strategy: Strategic Priority, Capacity Requirements, and Organizational Features, pp.191-196 Yong Lin; Jing Luo; Li Zhou; Shihua Ma; Zhenkun Zhou

A Performance Appraisal Method Based on ACP Theory and PageRank Algorithm, pp.197-201 Xiaowei Shen; Xiwei Liu; Dong Fan; Changjian Cheng; Gang Xiong

MA22

E-Commerce, E-Government and Material Management

Recommendation Algorithms For Implicit Information, pp.202-207 Xinxin Bai; Jinlong Wu; Haifeng Wang; Jun Zhang; Wenjun Yin; Jin Dong

Identifying Innovation Strategy by Examining Business Ecosystem: Exploratory Research on Korea Smart-phone Market via Network Analysis,

pp.208-213 Yongrae Cho; Gunwoo Yoon; Wonjoon Kim; Mirikitani John

Evaluating Public Service Delivery in Emerging Markets, pp.214-219 Arun Sharma; G.R. Gangadharan; Krishna Kummamuru; Jyothi B. Somasekhara; Alan Hartman

MP11 Modeling & Implementation I

Connected Health Services: Internet, mobile and wireless technologies in healthcare, pp.220-224 Timo Nyberg; Jani Luostarinen; Gang Xiong

The effect of ERP software interface design and cognitive function on performance of user learning, pp.225-230 Cheng-Hua Wang; Lu-Wen Liao; Yi-Ying Chu

Detect Irregularly Shaped Spatio-Temporal Clusters For Decision Support, pp.231-236 Weishan Dong; Xin Zhang; Zhongbo Jiang; Wei Sun; Lexing Xie; Arun Hampapur

A Formal Model for Building a Social Network, pp.237-242 Junhua Ding; Ismael Cruz; ChengCheng Li

A GOMS-Based Granular Computing Model for Human-Computer Interaction Design, pp.243-248 Jianchao Han

MP21 Logistics Management I

CREATION OF LOGISTICS NETWORKS BASED ON PERFORMANCE MEASUREMENT ANALYSIS, pp.249-254

Bayesian and classical estimation of mixed logit model For Simulated experimental data, pp.255-258 Lijun Yu; Leiyun Wang

Study on Synthetic Evaluation Model of Emergency Logistics Network Scheme based on AHP- Entropy Technology, pp.259-263 Juan WANG; Wei WANG; Xuejun FENG

Decision Making on Site Selection of a Civil Explosive Distribution Center Based on SOM Neural Network, pp.264-267 Wu Ying; Cheng Cisheng

MP12 Modeling & Implementation II

DESIGN AND REALIZATION OF FZy-CTC SYSTEM OF CHENGGUAN RAILWAY LINE, pp.268-273 Wei Xu; Nan Zhang

Short Messages in Health Promotion: Widespred and cost effective two-way communication channel for health, pp.274-277 Timo Nyberg; Jani Luostarinen; Gang Xiong

BP neural network model based on cluster analysis for wind power prediction, pp.278-280 Haifeng Wang; Xia Yang; Jun Zhang; Meng Zhang; Xinxin Bai; Wenjun Yin; Jin Dong

Multi-party Collaborative Debug Service for Java Application, pp.281-284 Chun Hua Tian; Feng Li; Hao Zhang; Zhong Jie Li

A Hybrid Model for IT Project with Scrum, pp.285-290 Tomohiro Hayata; Jianchao Han

MP22

Logistics Management II

Simulation Study on Reshuffling Problem in Logistics Operations of A Container Terminal Yard, pp.291-296 Wei Jiang; Yun Dong; Lixin Tang

Mode Choice For The Intermodal Transportation Considering Carbon Emissions, pp.297-301 Jun Zhang; Hong Wei Ding; Xiao Qing Wang; Wen Jun Yin; Tian Zhi Zhao; Jin Dong

Event-driven Monitoring and Scheduling in Express and Logistics Industry, pp.302-306 Minmin Qiu

TA11 Supply Chain Management I

Evaluating The Value of Collaboration in Supply Chain Through Business Process Simulation, pp.307-312 Wei Wang; Yueting Chai; Jin Dong; Hongwei Ding; Changrui Ren; Minmin Qiu

An Innovative Stochastic Dynamic Model to Three-stage Supply Chain Finance, pp.313-318 Miao He; Changrui Ren; Qinhua Wang; Jin Dong

A Lagrangean-based Heuristic For A Two-Stage Facility Location Problem With Handling Costs, pp.319-324 Jinfeng LI; Changrui Ren; Jin Dong; Feng Chen; Qinhua Wang; He Miao; Fei Liu

Establish trust from whole chain traceability, pp.325-330 Cao Rongzeng

TA21 Transportation Systems

Algorithm Design of Traffic Incident Automatic Detection Based on Mobile Detection, pp.331-335 Zi Zhang; Xiaoli Lin; Bin Hu

Public Bus Arrival Time Prediction Based on Traffic Information Management System, pp.336-341 Feng Li

Research on Bus Rapid Transit (BRT) and its Real-Time Scheduling, pp.342-346 Xisong Dong; Gang Xiong; Dong Fan; Fenghua Zhu; Yisheng Lv

A Case Study for Traffic Signal Control System Evaluation based on Artificial Transportation Systems, pp.347-352 Fenghua Zhu; Zhenjiang Li

TA12 Supply Chain Management II

Revenue Distribution and Coordination Research of General Project Contractor Based on Different Strategies, pp.353-358 Fen-Fang MU; Ping LU; Yin-Qiu SONG

Multi-dimensional Analysis of Utilities in Pricing Game, pp.359-363 Gajanan Panchal; Vipul Jain

TA22 Supply Chain Management III

Simulation based Fuzzy Tool for Supplier Selection with Order Allocation, pp.364-369 Akram ZOUGGARI; Lyes BENYOUCEF

An Integrated Model for Optimizing Advertising Cooperation in A VMI (Vendor Managed Inventory) Supply Chain, pp.370-375 Wen Lin; Zhaofu Hong

Network design of a closed-loop supply chain with uncertain demand and return, pp.376-379 Guoging Zhang; Saman Hassanzadeh Amin

RP11 Intelligent Rail Transportation

Analysis on the Effect of Working Frequency on the Receiving Signal in the High Speed Rail Scenario, pp.380-384 Peng-Yu Liu; Bo Ai

Neuro-adaptive Electric Traction and Braking Control of High-Speed Train, pp.385-390 Xinghua Li; Yongduan Song; Lingling Fan

Fault Isolation of Rail Vehicle Suspension Systems by Using Similarity Measure, pp.391-396 Xiukun Wei; Hai Liu; Yong Qin

Analysis on Comprehensive Balance of Train Operation Plan for High Speed Railway under Mixed Traffic Condition, pp.397-401 Jiamin Zhang; Jun Liu

Optimal Operation of Heavy Haul Trains using Model Predictive Control Methodology, pp.402-407 Lijun Zhang; Xiangtao Zhuan; Xiaohua Xia

Analysis and Requirements Design of Transmission Interference of High-speed Railway Communication, pp.408-412 Siyu Lin; Wenyi Jiang; Zhangdui Zhong

Reliability Assessments of Chinese High Speed Railway Network, pp.413-418 Jianhua Zhang; Hong Liu; Shuliang Wang; Xiaoming Xu

A New OFDM Symbol Synchronization for WMN Used in Railway, pp.419-422 Xu Li; Xiaoli Jiang; Zhongyou Han; Jianyu Zhang; Lei Cao

Research on Optimization of Train ODs Scheme for High-speed Railways, pp.423-427 Fei Yan; Lei Nie; Huiling Fu; Lu Tong

Optimization of speed profile for delayed train entering station, pp.428-433 Jing Xun; Tao Tang; Bin Ning

Research on Ad Hoc Multicast Routing Algorithm for GSM-R Emergency Communication, pp.434-437 Jianli Xie; Cuiran Li; Jie Zuo

Interference Evaluation in Wireless Communication System, pp.438-442 Yuanyuan Shi; Xia Chen; Gang Zhu

Research on Emergency Rescue Communication and Exploration System Underground, pp.443-446 Hongxian Tian; Wei Yang

Research on Intelligent Control Strategy Used in CTCS-3 Train Control System, pp.447-450 Junfeng Wang; Zeng Lin

Deblurring Gaussian-Blur Images: A Preprocessing for Rail Head Surface Defect Detection, pp.451-456 Liang Wang; Yaping Hang; Siwei Luo; Xiaoyue Luo; Xinlan Jiang

Development of Non-insulated ATP Track Circuits for SHINKANSEN, pp.457-462 Rinichi Yokota; Nobuyuki Nakamura; Tamio Okutani

A study of introducing an urban guideway transportation system using Traffic Flow Simulator, pp.463-467 Nozomi Kudo; Takeshi Mizuma; Hideo Nakamura

A new measure to identify the hub in urban traffic networks, pp.468-472 Zhiliang Zhu; Zhiying Zhao; Hai Yu

A Novel Handover Scheme in Wireless LAN in CBTC System, pp.473-477 Hailin Jiang; Honglin Zhao; Bobo Zhao

A Concurrent Scheduling Model of Distributed Train Control System, pp.478-483 Xinhong Hei; Weigang Ma; Jinli Gao; Guo Xie

Automatic Safety Analysis of of computer-based railway signalling system, pp.484-490 Ru Niu; Tao Tang; Oleg Lisagor; John McDermid

A Novel Energy-saving Traction Supply System for Urban Mass Transit, pp.491-495 Baishui Ruan; Xuedong Jiang; Gang Zhang; Hengli Quan; Zhigang Liu

Layout Algorithm for Axles in Section and Its Simulation in Punctual Train Control System, pp.496-500 Lin Ma; Fan Yang

Challenge to Introduce MBSA Approaches into CBTC Safety Analysis, pp.501-506 Chao Liu; Tao Tang; Oleg Lisagor

A Safety-Related Digital Input System Based on the Analysis of the Architectural Constraints, pp.507-511 Jia Lin; Ping Tan; Weiting He; Jian Chu; Zhihua Chen

A research on the hybrid train-to-ground communication method in CBTC, pp.512-516 Bing Bu; Hongwei Wang; Hongli Zhao; Hailin Jiang

Study of Load Spectrum Compiling Method of High Speed Train Bogie, pp.517-520 Wenjing Wang; Kai Li; Qiang Li; Zhiming Liu

Research on Tunnel Complete Profile Measurement Based on Digital Photogrammetric Technology, pp.521-526 Yishi Guo; Hongmei Shi; Zujun Yu Application Simulation Research of Gaussian Particle Filtering in Train Integrated Position System, pp.527-531 Bai-Gen Cai; Yi An; Wei Shang Guan; Jiang Liu; Jian Wang

Research on Intrusion Clearance Detection System for High-speed Railway Based on Binocular Stereo Vision, pp.532-536 Zujun YU; Xi He

On Validation of the Safety Analysis of Modern Railway Systems, pp.537-542 Oleg Lisagor; Linling Sun; Tim Kelly; Chao Liu; Ru Niu

The Improvement of Apriori Algorithm and Its Application in Fault Analysis of CRH EMU, pp.543-547 Chun Zhang; Dezan Xie; Honghui Li; Ning Zhang; Feng Liu

Energy-Efficient Freight Train Operation Guide System for Diesel Locomotives, pp.548-553 Yong Ding; Yun Bai; Fang-Ming Zhou; Bao-Hua Mao

Research on Propagation Characteristics of Leaky Waveguide for Train-ground Information Transmission in CBTC, pp.554-559 Qingwen Yang; Bing Bu; Hongwei Wang; Qianwen Yang

Research on Third-Party Test Bench of Train Control System Using UML, pp.560-564 L. YUAN; T. Tang; Y. Liu

Design and Analysis of Hybrid Excitation Rail Eddy Current Brake System of High-speed Train, pp.565-569 Po Li; Jien Ma; Youtong Fang

On Credibility Validation of the Artificial Urban Rail Transportation System, pp.570-573 Runmei Li; Jianzhong Liu; Hairong Dong

Feasibility Research on train-ground Information Transmission Based on Leaky Coaxial Cable in CBTC, pp.574-578 Wenzhe Sun; Bing Bu; Hongwei Wang

Multi-resolution simulation strategy and its simulation implementation of Train control system, pp.579-584 Wei ShangGuan; Bai-Gen CAI; Si-Hui LI; Zhen-Guo LIU; Jian WANG

Automatic Detection of Fence Completeness for High-Speed Railway, pp.585-588 Yao Wang; Zujun Yu; Liqiang Zhu

A Survey on Optimal Trajectory Planning for Train Operations, pp.589-594 Yihui Wang; Bin Ning; Fang Cao; Bart De Schutter ; Ton J.J. Van Den Boom

A Comprehensive Software System Architecture for Unmanned Aerial Vehicles, pp.595-600 Xiangxu Dong; Miaobo Dong; Biao Wang; Ben M. Chen; Tong H. Lee

Resource Allocation for SC-FDMA in LTE Uplink, pp.601-604 Miao Wang; Zhangdui Zhong; Qiuyan Liu

A Cooperative Hierarchical Transmission Scheme in Railway Wireless Communication Networks, pp.605-609 Fanglong Hu; Kan Zheng; Hang Long; Wenbo Wang

LinguisticDynamic Modeling of Employee Behaviors Based on Parallel Management, pp.610-612 Hong Mo; Tao Wang