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Pages: 1843-1854

#### Logistic evaluation of an underground mine using simulation

Marcelo Moretti Fioroni, Letícia Cristina Alves dos Santos, Luiz Augusto G. Franzese, Isac Reis Santana, Gustavo Dezem Telles, Josiane Cordeiro Seixas, Bruno Penna, Gerson Mendes de Alkmim

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#### Enabling simheuristics through designs for tens of variables: costing models and online availability

Yaileen M. Méndez-Vázquez, Kasandra L. Ramírez-Rojas, Hecny Pérez-Candelario, Mauricio Cabrera-Ríos

Pages: 1866-1874

### On the use of biased randomization and simheuristics to solve vehicle and arc routing problems

Sergio Gonzalez-Martin, Barry B. Barrios, Angel A. Juan, Daniel Riera

Pages: 1875-1884

#### A hybrid optimization-simulation approach for itinerary generation

Feng Cheng, Bryan Baszczewski, John Gulding

Pages: 1885-1896

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## An approach for increasing the level of accuracy in supply chain simulation by using patterns on input data

Markus Rabe, Anne Antonia Scheidler

Pages: 1897-1906

#### Economic evaluation of logistics infrastructure in oil industry using simulation: jet fuel supply case study

Rafael F. S. Costa, Raphael A. Fagundes, Ângelo A. M. Freitas, Eduardo L. Ávila

Pages: 1907-1918

#### A simulation based investigation of inventory management under working capital constraints

Illana Bendavid, Yale T. Herer, Enver Yücesan

Pages: 1919-1930

SESSION: Logistics, SCM and transportation: supply chain analysis II

#### Efficient storage of transport network routes for simulation models

Ramon Alanis Pages: 1931-1942

## Simulation based analytics for efficient planning and management in multimodal freight transportation industry

Parijat Dube, João P. M. Gonçalves, Shilpa Mahatma, Francisco Barahona, Milind Naphade, Mark

Bedeman

Pages: 1943-1954

#### Evaluating cost-to-serve for a retail supply chain

Kyle Cooper, Erick Wikum, Jeffrey Tew

Pages: 1955-1964

## SESSION: Logistics, SCM and transportation: SimHeuristics in logistics II

### Simulation analysis of a dynamic ridesharing model

Antoni Guasch, Jaume Figueras, Pau Fonseca i Casas, Cristina Montañola-Sales, Josep Casanovas-Garcia

Pages: 1965-1976

#### Optimization of aircraft boarding processes considering passengers' grouping characteristics

Gerard Carmona Budesca, Angel A. Juan, Pau Fonseca i Casas

Pages: 1977-1988

#### Optimizing the design and operation of a beer packaging line through an advanced simio-based des tool

Natalia P. Basán, Mariana E. Cóccola, Carlos A. Méndez

Pages: 1989-2000

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#### The use of rfid sensor tags for perishable products monitoring in logistics operations

Sobhi Mejjaouli, Ibrahim Nisanci, Radu F. Babiceanu

Pages: 2001-2012

### Optimization of cross-docking terminal using flexsim/optquest: case study

Pawel Pawlewski, Patrycja Hoffa

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## <u>Simulation model for regional oil derivatives pipeline networks considering batch scheduling and restricted storage capacity</u>

Rafael F. S. Costa, Angelo A. de M. Freitas, Celso F. Araujo, Claudio D. P. Limoeiro, Daniel Barry Fuller

Pages: 2025-2035

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## <u>Capacity reservation for a decentralized supply chain under resource competition: a game theoretic</u> approach

Chao Meng, Young-Jun Son, Benyong Hu

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## <u>Validation of a new multiclass mesoscopic simulator based on individual vehicles for dynamic network loading</u>

M. Paz Linares, Carlos Carmona, Jaume Barceló, Cristina Montañola-Sales

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## Adaption of the discrete rate-based simulation paradigm for tactical supply chain decisions

Sebastian Terlunen, Dennis Horstkemper, Bernd Hellingrath

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## <u>Presentation of a general purpose simulation approach for enabling the realization of electromobility concepts for the transportation sector</u>

Jonas B. Gläser, Joachim O. Berg

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#### Frugal signal control using low resolution web-camera and traffic flow estimation

Kumiko Maeda, Tetsuro Morimura, Takayuki Katsuki, Masayoshi Teraguchi

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### Simulating unsignalized intersection right-of-way

Jessica Mueller, David Claudio

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### Simulation of low-volume mixed model assembly lines: modeling aspects and case study

Timm Ziarnetzky, Lars Mönch, Alexander Biele

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#### A novel work-sharing protocol for U-shaped assembly lines

Srinath Sriram, Michael E. Kuhl, Brian K. Thorn, Andres L. Carrano

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## Quantifying input uncertainty in an assemble-to-order system simulation with correlated input variables of mixed types

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#### Simulation based optimization using PSO in manufacturing flow problems: a case study

Sai Phatak, Jayendran Venkateswaran, Gunjan Pandey, Shirish Sabnis, Amit Pingle

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## <u>Topsis based taguchi method for multi-response simulation optimization of flexible manufacturing system</u>

Yusuf Tansel Ic, Berna Dengiz, Orhan Dengiz, Gozde Cizmeci

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#### Data analytics using simulation for smart manufacturing

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## Comparing the performance of two different customer order behaviors within the hierarchical production planning

Thomas Felberbauer, Klaus Altendorfer

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#### A step toward capacity planning at finite capacity in semiconductor manufacturing

Emna Mhiri, Mireille Jacomino, Fabien Mangione, Philippe Vialletelle, Guillaume Lepelletier

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#### Empirical study of the behavior of capacitated production-inventory systems

Pablo Garcia-Herreros, Ignacio E. Grossmann, Bikram Sharda, Anshul Agarwal, John M. Wassick

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(Almost) present at the creation: 25 years of modelling and simulation in semiconductor manufacturing

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#### Simulation optimization: a panel on the state of the art in research and practice

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