

Preface	IX
Scientific Programme	1
Author Listing	177

SIMULATION IN OR AND KNOWLEDGE MANAGEMENT

A Business Process Modelling Approach for Knowledge Management Vesna Bosilj-Vuksic	5
An Ontology Oriented Approach for Knowledge Criticality Analysis Charles Emmanuel Foveau, Christophe Roche and Christophe Tricot.....	11

SIMULATION IN BUSINESS AND RISK ANALYSIS

Evolving Collusion in a Simulation of an Oligopolistic Marketplace Stephen Huxford and David Hunt	21
An Integrative Approach to Investment Appraisal Simulating the Risk of an Optimum Decision Athanasios A. Rentizelas, Georgios G. Tziralis and Konstantinos A. Kirytopoulos	27

BUSINESS GAMING

Prediction Markets; Aspects on transforming a Business Game into a Valuable Information Aggregation Tool Georgios G. Tziralis and Ilias P. Tatsiopoulou	35
A Monte Carlo assessment of Suspense in Sports and Games Emmanuel Dion	40

DISCRETE EVENT SIMULATION

Queueing Networks in Equilibrium and Markov Chains: Numerical Solution Methods Dimitar Radev, Izabella Lokshina and Vladimir Denchev.....	51
Evaluation of the Queueing Network Equilibrium Based on Clustering Analysis and Self-Organizing Map Dimitar Radev, Izabella Lokshina and Svetla Radeva	59

CONTENTS

Simulation in Project Scheduling; Why PERT is not Enough

Viktor Diamantas, Konstantinos A. Kirytopoulos and Vrassidas Leopoulos.....64

SUSTAINABLE DEVELOPMENT

Modelling and Simulation of Car Dismantling Facilities

G.M.Accacia, R.C. Michelini, L.Penzo and N.Qualich.....71

End-of Life Vehicle Models with Recycling in Mind

G.M.Accacia, R.C. Michelini and N.Qualich.....76

SUPPORTING TECHNOLOGIES

Total Engineering through Concurrent Engineering and Rapid Prototype as Design: A Powerful Combination

Olaf Diegel83

PDM-based Mechatronic DMU

Marcus Krastel and Christian Donges.....91

FORMAL METHODS AND TECHNIQUES

The EFQM Self Assessment Model in Performance Management

Jeanne Schreurs and Rachel Moreau.....99

Developing Concurrent Engineering Software: A Socio Technical Approach

Yacine Rezgui.....104

ENGINEERING PROCESS MANAGEMENT

Agents and Their Behavior's Reconfiguration

Michal Radecky and Ivo Vondrak.....113

Spatial Extension in Business Process Enactment

Dušan Fedorčák, Jan Kožusznik and Ivo Vondrák.....121

COLLABORATIVE CE-ENVIRONMENTS FOR VIRTUAL TEAMS

Workflow Automation and Optimization in Automotive Design

Guy K. Kloss127

CONTENTS

A Multi-User Modeling Environment to Create and Parametrize Material Flow Models in D3 Fact Insight Wilhelm Dangelmaier, Mark Aufenanger, Daniel Huber, Christoph Laroque and Kiran Mahajan	132
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----

Virtual Factory: An Educational Workbench for Job Shop Scheduling Jan Soons and Hendrik Van Landeghem	138
-----------------------------------------------------------------------------------------------------------------------	-----

CE-ENHANCED LEAN MANUFACTURING

Value Stream Maps and Critical Path Method for production and procurement planning: a Make to Order company Flavio Tonelli and Laura Piccinino	143
----------------------------------------------------------------------------------------------------------------------------------------------------------------	-----

A GA-based Approach to the Resource Allocation Problem in Global Manufacturing Supply Chain Xiao You and Lingling Li	148
--------------------------------------------------------------------------------------------------------------------------------------	-----

PRACTICAL APPLICATIONS AND EXPERIENCES

The “V” Open System Development Model: An Integrative Concurrent Engineering Development Strategy Cyrus Azani	155
-------------------------------------------------------------------------------------------------------------------------------	-----

ESA Open Concurrent Design Server Arne Matthyssen, Massimo Bandecchi, Petter Myrvang, Narve Mjos and Kjell A. Bengtsson	166
--------------------------------------------------------------------------------------------------------------------------------------------	-----

LATE PAPER

Optimisation of the Joining Technology Selection in the Automotive Product Development Process V.I. Vitanov, J.W. Stahl and M. Ganser.....	171
------------------------------------------------------------------------------------------------------------------------------------------------------	-----