

Contents

Preface	XIII
Scientific Programme	1
Author Index	69

Applied Simulation Methodology

Optimization of a Two-Stage Logistic System using Hybrid Filtered Beam Search Algorithm Marwa Gam, Oussama Hayane and Dimitri Lefebvre	5
Continuous Victim Model for Use in Mass Casualty Incident Simulations Mehdi Benhassine, Filip Van Utterbeeck, Ruben De Rouck, Michel Debacker Ives Hubloue and Erwin Dhondt.....	10
Optimal Survey Path for MCM Operations using Variable Length Genetic Algorithms Damien Desmidts, Filip Van Utterbeeck, Ben Lauwens, Bart De Clerck, Taki-Eddine Harbi and Mehdi Benhassine	16

Simulation Analysis of Complex Systems

Statistical Optimization with an Outer Loop of Six William Conley	23
Computational Analysis of FRP Tapered Utility Poles Christian Stewart, Martin Muscat, Duncan Camilleri and Brian Ellul	30
The FeDiNAR System Evolved: Providing AR Experiences of Consequences of Human Actions Alexander Atanasyan, Artem Bliznyuk, Felix Casser, Arthur Wahl and Jürgen Roßmann	38

Simulation in Engineering

Energy Demand Trends during COVID-19 Pandemic Che Yeu Wan, Adamantios Bampoulas, Mohammad Saffari and Eleni Mangina	49
-------------------------------------------------------------------------------------------------------------------------------------	-----------

Contents

A Simulation-Based Method for the Correction of Positioning Errors in Robot-Guided Fused Deposition Modeling Raphael Höfer, Gian Frederik Mewes and Alexander Fay	55
Homogenization of Speed Control Path in Torque Drives of Production Machines by Means of Finite Element Analysis Gerhard Kehl.....	63