

Contents

1	ECMS: Its Position in the European Simulation History	1
	Eugene J.H. Kerckhoffs	
2	Brain Maps for Space	7
	May-Britt Moser	
3	Coordinated Learning of Entorhinal Grid Cells and Hippocampal Place Cells: Space, Time, Attention and Oscillations	11
	Stephen Grossberg	
4	Adaptive Model Theory: Modelling the Modeller	19
	Peter D. Neilson and Megan D. Neilson	
5	Multi-formalism Modelling of Human Organization	23
	Alexander H. Levis	
6	A New Research Architecture for the Simulation Era	47
	Martin Ihrig	
7	A Ship Motion Short-Term Time Domain Simulator and Its Application to Costa Concordia Emergency Manoeuvres Just Before the January 2012 Accident	57
	Paolo Neri, Mario Piccinelli, Paolo Gubian and Bruno Neri	
8	Fuzzy Modelling and Fuzzy Collaborative Modelling: A Perspective of Granular Computing	73
	Witold Pedrycz	
9	Control Law and Pseudo Neural Networks Synthesized by Evolutionary Symbolic Regression Technique	91
	Zuzana Kominkova Oplatkova and Roman Senkerik	
10	On Practical Automated Engineering Design	115
	Lars Nolle, Ralph Krause and Richard J. Cant	

11	Flow-Level Packet Loss Analysis of a Markovian Bottleneck Buffer	141
	Dieter Fiems, Stijn De Vuyst and Herwig Bruneel	
12	Fitting Methods Based on Distance Measures of Marked Markov Arrival Processes	159
	Gábor Horváth and Miklós Telek	
13	Markovian Agent Models: A Dynamic Population of Interdependent Markovian Agents	185
	Andrea Bobbio, Davide Cerotti, Marco Gribaudo, Mauro Iacono and Daniele Manini	
	Index	205

Seminal Contributions to Modelling and Simulation
30 Years of the European Council of Modelling and
Simulation

Al-Begain, K.; Bargiela, A. (Eds.)

2016, XV, 206 p. 84 illus., Hardcover

ISBN: 978-3-319-33785-2