
CONTENTS

Guest Editorial	5
S. KLANCNIK, J. BALIC and F. CUS: Intelligent prediction of milling strategy using neural networks	9
V. T. TRAN and B.-S. YANG: Machine fault diagnosis and condition prognosis using classification and regression trees and neuro-fuzzy inference systems	25
I. ROJEK: Neural networks as performance improvement models in intelligent CAPP systems	55
I. BACH, G. BOCEWICZ, Z. A. BANASZAK and W. MUSZYŃSKI: Knowledge based and CP-driven approach applied to multi product small-size production flow	69
P. KORYTKOWSKI, T. WIŚNIEWSKI and O. ZAIKIN: Multi-criteria approach to comparison of inspection allocation for multi-product manufacturing systems in make-to-order sector	97
J. MATUSZEK and A. MOCZAŁA: The modelling and simulation method in computer aided cooperation	117
F. HNAIEN, A. DOLGUI and M. A. OULD-LOULY: Key performance indicators for supply planning of multilevel serial systems with stochastic lead times	133
E. NAWARECKI and J. KOŹLAK: Building multi-agent models applied to supply chain management	149

A. SMIRNOV, T. LEVASHOVA, N. SHILOV and A. KASHEVNIK:	177
Knowledge sharing in flexible supply networks: a context-based approach	
Ch. GERBER, I. IVANOVA-VASILEVA and H.-M. HANISCH:	197
Formal modelling of IEC 61499 function blocks with integer-valued data types	
M. B. ZAREMBA:	233
Intelligence in manufacturing systems: the pattern recognition perspective	
K. SANDKUHL:	259
Capturing product development knowledge with task patterns: evaluation of economic effects	
D. BAGLEE and M. KNOWLES:	275
Maintenance strategy development within SMEs: the development of an integrated approach	
N. N. BAKHTADZE, I. B. YADIKIN, V. V. KULBA, V. A. LOTOTSKY and E. M. MAXIMOV:	305
An approach to coordination of power generating units	