

TABLE OF CONTENTS

<i>List of contributors</i>	v
<i>Preface</i>	ix
MARIA GRAZIA GNONI, RAFFAELLO IAVAGNILIO, GIORGIO MOSSA, GIOVANNI MUMMOLO <i>Solving a lot sizing and scheduling problem by hybrid modelling</i>	1
PAUL VALCKENAERS, PATRICK PEETERS, HENDRIK VAN BRUSSEL, TAPIO HEIKKILÄ, MARTIN KOLLINGBAUM <i>Pheromone based emergent manufacturing control by multi-agent system</i>	17
JAN-WILHELM BREITHAUPT <i>Advanced backlog-and utilisation control based on flexible capacities</i>	29
AGOSTINO G. BRUZZONE, PIETRO GIRIBONE, ROBERTO MOSCA, ROBERTO REVETRIA <i>Applied neural networks for improving production capabilities</i>	45
SERGIO CAVALIERI, VITTORIO CESAROTTI <i>A multi-agent model for coordinated supply chain planning</i>	51
P. VAN BAEL, M. RIJCKAERT <i>Specific knowledge of the job shop scheduling problem incorporated in local search, how good is it?</i>	71
HANS-HERMANN WIENDAHL, ENGELBERT WESTKÄMPER <i>Manufacturing in turbulent markets effects on production planning and control</i>	81
GIANCARLO MACCARINI, GIOVANNI VALENTINI, LUCIO ZAVANELLA <i>Improving the simulation of manufacturing systems: the implementation of hybrid simulation and fuzzy logic</i>	95

Proceedings of ATPPC 2000

MARIO TUCCI, MARIO RAPACCINI, EMANUELE CHELI, GIANNI BETTINI <i>Towards integrated simulators. First step: please pass the data</i>	107
J.M. VAN DE MORTEL-FRONCZAK, J.E. ROODA <i>Agent-based control of a lithoshop – a simulation study</i>	125
ALISTAIR R. CLARK <i>A local search approach to lot sequencing and sizing</i>	145
FERNANDO LOPES, NUNO MAMEDE, HELDER COELHO <i>Negotiation in a multi-agent supply chain system</i>	153