

INTEGRATED COMPUTER-AIDED ENGINEERING

VOLUME CONTENTS

VOLUME THREE / NUMBER ONE / 1996

SPECIAL ISSUE
INTEGRATED PRODUCT AND PROCESS DATA MANAGEMENT

- 1** INTEGRATED PRODUCT AND PROCESS DATA MANAGEMENT / *D. L. LEE
AND Y.-M. CHEN*
- 5** INTEGRATED PRODUCT AND PROCESS MANAGEMENT IN EPOS /
B. P. MUNCH, R. CONRADI, J.-O. LARSEN, M. N. NGUYEN, AND P. H. WESTBY
- 20** INTEGRATED PRODUCT AND PROCESS MANAGEMENT FOR
ENGINEERING DESIGN APPLICATIONS / *B. WESTFECHTEL*
- 36** TOWARDS AN INTEGRATION OF SOFTWARE PRODUCT AND SOFTWARE
PROCESS MODELING / *N. BELKHATIR AND W. L. MELO*
- 51** A META-MODEL AND SEMANTIC MAPPING METHODOLOGY FOR
HARDWARE DESIGN DATA MANAGEMENT / *S. VENKATESAN
AND K. C. DAVIS*
- 68** DATA MANAGEMENT IN CIM SYSTEMS—A MOBILE OBJECT
APPROACH / *A. K. PATANKAR AND A. SEGEV*

VOLUME THREE / NUMBER TWO / 1996

SPECIAL ISSUE
OPTICAL INFORMATION PROCESSING

- 83** TWO-LAYERED HOLOGRAPHIC NEURAL NETWORK / *O. I. POTATURKIN AND V. I. KOZIK*
- 90** A NEURAL NETWORK FOR REAL-TIME PARTICLE DISCRIMINATION IN HIGH-ENERGY PHYSICS / *A. L. PERRONE, E. PASQUALUCCI, R. MESSI, G. BASTI, AND L. PAOLUZI*
- 108** TWO-DIMENSIONAL ACOUSTOOPTIC LIGHT DIFFRACTION AND ITS APPLICATIONS / *A. BARÓCSI, L. JAKAB, I. VERHÁS, AND P. RICHTER*
- 117** NONLINEAR PREPROCESSING FOR IMPROVED FILTER CAPACITY OF AN OPTICAL CORRELATOR / *E. C. BOTHA AND N. G. BOUMA*
- 129** SYNTHETIC DISCRIMINANT WIENER FILTER FOR IN-PROCESS LASER CUTTING QUALITY CONTROL / *C. R. CHATWIN*
- 139** REVIEW ARTICLE
PERSPECTIVES ON THE APPLICATION OF OPTICAL MATRIX PROCESSORS / *C. K. GARY*

VOLUME THREE / NUMBER THREE / 1996

- 149** A NEURAL NETWORK MODEL FOR SELECTING MACHINING PARAMETERS IN FIXTURE DESIGN / *U. ROY AND J. LIAO*
- 158** THE SHARED DESIGN MANAGER: INTEROPERABILITY IN ENGINEERING DESIGN / *S. D. URBAN, J. J. SHAH, H. LIU, AND M. ROGERS*

178 DISTRIBUTED OPEN INTERWORKING IN SOFTWARE ENGINEERING ENVIRONMENTS / *R. BOUTABA AND K. FOUGHALI*

199 AN INTELLIGENT CONTROL SYSTEM USING NEURAL NETWORK / *D. M. ROGERS AND C. H. DAGLI*

212 HEURISTIC FEATURE RECOGNITION FROM A CAD MODEL / *Z.-K. LING AND S. NARAYAN*

VOLUME THREE / NUMBER FOUR / 1996
SPECIAL ISSUE
FAULTS IN AUTOMATED MANUFACTURING
GUEST EDITOR: MARIA GINI

225 CONFIGURABLE ON-LINE SCHEDULING / *V. CHIODINI*

244 DISTRIBUTED FAULT MONITORING IN MANUFACTURING SYSTEMS USING CONCURRENT DISCRETE-EVENT OBSERVATIONS / *L. E. HOLLOWAY AND S. CHAND*

255 ERROR-RECOVERING SUPERVISORY CONTROL OF AUTOMATED MANUFACTURING SYSTEMS / *B. A. BRANDIN*

268 MONITORING AND DIAGNOSIS OF BEARING DEFECTS USING DATA DEPENDENT SYSTEMS / *S. M. PANDIT, D. PAUL, AND J. T. ROTH*

279 SYSTEM RELIABILITY METHODS FOR ANALYSIS OF PROCESS MODELS / *N. LARSON AND A. KUSIAK*

291 A PRACTICAL METHOD FOR CREATING PLANT DIAGNOSTICS APPLICATIONS / *G. KARSAI, S. PADALKAR, H. FRANKE, J. SZTIPANOVITS, AND F. DECARIA*