A SUBJECT BIBLIOGRAPHY OF LOGIC PROGRAMMING
APPLICATIONS IN CONTROL AND DECISION
SUPPORT SYSTEMS

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Abstract—A bibliography on applications of logic programming in decisions and control is presented. The bibliography contains 330 entries, an authors index, a classification by 18 subjects, and a classification of descriptors. The entire bibliography is created by first downloading the entries from several Dialog files, then transforming the obtained material into a set of Prolog clauses, and, finally, by operating a few second-order Prolog predicates on the aforementioned set.

I. INTRODUCTION

The goal of this bibliography is to show how logic programming is entering the mainstream of computer applications. Logic programming is developed and integrated into a wide variety of specific areas, providing the unique possibilities for new progress.

Since the publication of the comprehensive classified bibliography on logic programming by Balbin and Lecot [1] the growth of the literature has been explosive (Table I). In particular, we are now able to subdivide the application papers into a set of 18 domains. Comparing the contents of this bibliography with the previous one, we may notice also the growth of journal publications instead of internal technical reports. Our bibliography contains 330 items—the large spectrum of journals, conference proceedings, dissertations theses, and, of course, books.

Our bibliography contains additionally two indexes: the author index and the subject index. The author index is useful when looking for the papers of a particular author. The subject index is useful when searching for a list of papers concerned with a specific domain. We have also included the table of descriptors which we classified into the set of 18 subjects. These descriptors represent the basis for the papers classification decisions: if a paper contains a descriptor which belongs to the given subject then that paper is included in the subject index under the given subject heading.

Traditionally, the subject bibliographies are created in three main stages: material search, its classification, and creation of various indexes. We performed the first stage by using the Dialog information service and downloading the bibliographical material from several databases (i.e. NTIS, Inspec, Compendex, Dissertation abstracts, Mathsci, and Books In Print). Since the entry formatting in the various files is not uniform, we used AWK [2] queries to create a file consisting of Prolog clauses corresponding to the bibliographical entries. Once a Prolog database has been constructed, the rest followed the usual logic programming practice: a subject classification of descriptors (Appendix B) was built and a meta-interpreter to run the required queries was created. The subject classification of descriptors constitutes the knowledge base of bibliographical expert system REX, which we describe in a companion paper elsewhere [3].

Table I. Growth of literature on applications of logic programming

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3. SUBJECT INDEX

This section contains partial bibliographic specifications sorted in the order of subjects. Section 2 contains the full bibliographic specifications ordered alphabetically.

3.1 CAD/CAM

Adey, S., PLANNING AND EXECUTING PLANS WITHIN A NAVAL SIMULATOR

Auer, A., Kemppainen, P., Okkonen, A., Seppanen, V., AUTOMATED CODE GENERATION OF EMBEDDED REAL-TIME SYSTEMS


Ben-Arieh, D., A KNOWLEDGE BASED SYSTEM FOR SIMULATION AND CONTROL OF A CIM

Borges da Silva, L.E., April, G.-E., Olivier, G., FUZZY-FORTH RULE BASED PRODUCTION SYSTEM FOR REAL TIME CONTROL SYSTEMS

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Hoare, C.A.R., AN OVERVIEW OF SOME FORMAL METHODS FOR PROGRAM DESIGN

Hoffmann, G., KNOWLEDGE REPRESENTATION IN COMPUTER-AIDED CONTROL SYSTEMS DESIGN PACKAGES

Hueschen, R.M., McManus, J.W., APPLICATION OF AI METHODS TO AIRCRAFT GUIDANCE AND CONTROL

Kar, A., AN EXPERT CONSULTANT FOR MANUFACTURING PROCESS SELECTION

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Morris, H.M., DESIGN STATION USES AI FOR FACTORY CELL CONTROL

Rang, E.R., Thelen, K.H., FLIGHT CONTROL SOFTWARE FOR TEST GENERATION

Riley, R. P., CONTROL SYSTEM DESIGN LANGUAGE IMPLEMENTATION OF A GAS TURBINE STARTING CONTROLLER (MASTERS THESIS)

Rosenman, M.A., Gero, J.S., DESIGN CODES AS EXPERT SYSTEMS

Sardar A., Saleh, H., ARTIFICIAL INTELLIGENCE AND COMPUTER AIDED DESIGN IN CIVIL ENGINEERING

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ROBOTIC ASSEMBLY LINES
Stoeva, S.P., Bobcheva, M.L., CONTROL ALGORITHM SYNTHESIS OF INVERTER SCHEMES
Swinson, P.S., Pereira, F.C., Bijl, A., A FACT DEPENDENCY SYSTEM FOR THE LOGIC PROGRAMMER.

3.2 MANUFACTURING AND AUTOMATED PRODUCTION
Arnoux, M., Becker, G., Thomas, M.C., AN EXPERT SYSTEM FOR MANAGEMENT OF PRODUCTION FAILURES
Arnoux, M., Becker, G., Thomas, M.C., AN INTELLIGENCE MANAGEMENT SYSTEM FOR FAULTS IN A MANUFACTURING WORKSHOP
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Ben-Arieh, D., A KNOWLEDGE BASED SYSTEM FOR SIMULATION AND CONTROL OF A CIM
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Black, G., HOSKYNS GOES LIVE WITH EXPERT SYSTEM.
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Castelain, E., Corbeei, D., Gentina, J.C., COMPARATIVE SIMULATIONS OF CONTROL BY PROCESSES DESCRIBED BY PETRI NETS
Cuadrado, C.Y., Cuadrado, J.L., PROLOG GOES TO WORK: WHAT PROLOG IS, WHOS USING IT, AND WHY.
Davies, B. J., Darbyshire, I. L., Wright, A. J., Park, M. W., INTEGRATION OF PROCESS PLANNING WITH CAD CAM INCLUDING THE USE OF EXPERT SYSTEMS.
Dettmer, R., LOGIC PROGRAMMING - OR HOW TO MAKE COMPUTERS MORE THOUGHTFUL.
Erschler, J., Esquirol, P., DECISION-AID IN JOB SHOP SCHEDULING: A KNOWLEDGE BASED APPROACH
Fan, I.S., Sackett, P.J., A PROLOG SIMULATOR FOR INTERACTIVE FLEXIBLE MANUFACTURING SYSTEMS CONTROL
Fisher, E., KNOWLEDGE-BASED FACILITIES DESIGN, PH.D. THESIS
Freedman, P., Malowany, A., THE ANALYSIS AND OPTIMIZATION OF REPETITION WITHIN ROBOT WORKCELL SEQUENCING PROBLEMS
Goff, K.W., ARTIFICIAL INTELLIGENCE IN PROCESS CONTROL
Gunashingham, H., Wong, M. L., DETERMINISTIC CONTROL IN KNOWLEDGE-BASED SYSTEMS: APPLICATION TO THE DEVELOPMENT OF A CYBERNETIC ANALYTICAL INSTRUMENT.
Hoare, C.A.R., AN OVERVIEW OF SOME FORMAL METHODS FOR PROGRAM DESIGN
Imamichi, C., Kobayashi, K., Inamoto, A., TOTAL CIM SYSTEM ARCHITECTURE FOR CONTINUOUS PROCESS INDUSTRIES AND DISTRIBUTED SYSTEM TECHNOLOGY
Jiang, J., Doraiswami, R., A NOVEL STRUCTURE OF REAL-TIME EXPERT CONTROL SYSTEM FOR PROCESS INDUSTRY
Kar, A., AN EXPERT CONSULTANT FOR MANUFACTURING PROCESS SELECTION
Konitzer, L., Seidelman, L., FURTHER DEVELOPMENT OF THE SPS MODULE SYSTEM
Kozhevnikov, G. K., TOPOLOGICAL DESIGN OF DISTRIBUTED CONTROL SYSTEMS USING THE PROLOG PROGRAMMING LANGUAGE.
Krishnan, R., PM: A LOGIC MODELING LANGUAGE FOR PRODUCTION, DISTRIBUTION AND INVENTORY PLANNING
Leclair, S., A MULTIEXPERT KNOWLEDGE SYSTEM ARCHITECTURE FOR MANUFACTURING, PH.D. THESIS
Morris, H. M., DESIGN STATION USES AI FOR FACTORY CELL CONTROL
Negreuo, U., A FUNCTIONAL PROCESS MODEL FOR FLEXIBLE ASSEMBLY CELLS
Ogard, O., Woods, E., INTELLIGENT ALARM HANDLING
Ostroff, J.S., Wonham, W. M., A TEMPORAL LOGIC APPROACH TO REAL TIME CONTROL (PROCESS CONTROL)
Perez, J.-C., Rouchy, I., Hertzberger, L.O., Groen, F.C.A., INCREASING AUTONOMY OF ASSEMBLY ROBOTS WITH ARTIFICIAL INTELLIGENCE

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Ruiz-Mier, S., Talavage, J., A HYBRID PARADIGM FOR MODELING OF COMPLEX SYSTEMS

Schmidt, P., PROCESS CONTROL SYSTEM EAW-ELECTRON S2000 AND ITS APPLICATION. 2

Schmidt, P., PROCESS CONTROL SYSTEM EAW-ELECTRON S2000 AND ITS APPLICATION. 1

Simsik, D., Kovac, J., Madarasz, L., THE APPLICATION OF EXPERT SYSTEMS IN THE DESIGN OF ROBOTIC ASSEMBLY LINES

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Tholen, A.D., SIMULATION AND GAMING METHODS FOR ANALYSIS OF LOGISTICS

Tirupatikumara, S., ARTIFICIAL INTELLIGENCE TECHNIQUES IN FACILITIES LAYOUT PLANNING, PH.D. THESIS

3.4 ROBOTICS

Davies, B. J., Darbyshire, I. L., Wright, A. J., Park, M. W., INTEGRATION OF PROCESS PLANNING WITH CAD CAM INCLUDING THE USE OF EXPERT SYSTEMS.

Davis, R. H., Camacho, M., APPLICATION OF LOGIC PROGRAMMING TO THE GENERATION OF PATHS FOR ROBOTS.

Freedman, P., Malowany, A., SAGE: A DECISION SUPPORT SYSTEM FOR THE SEQUENCING OF OPERATIONS WITHIN A ROBOTIC WORKCELL

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Freedman, P., OPTIMAL SEQUENCING OF WORKCELL OPERATIONS WITH DETERMINISTIC OUTCOMES, PH.D. THESIS

Gago, A., Trigueros, M., Lozano, J., Robla, J.I., Mochon, J., Brandeiro, J.M., HIERARCHICAL ARCHITECTURE FOR CONTROL SYSTEM WITH ROBOTS

Lowrie, J.W., Fermelia, A.J., Haley, D.C., Gremban, K. D., Vanbaalen, J., EVALUATION OF AUTOMATED DECISIONMAKING METHODOLOGIES AND DEVELOPMENT OF AN INTEGRATED ROBOTIC SYSTEM SIMULATION, VOLUME I: STUDY RESULTS

Missaief, L. Lecluyse, H., Massart, J.-P., Bruynooghe, M., NAVIGATION ALGORITHMS FOR A MOBILE ROBOT USING ULTRASONIC SENSORS

Negreto, U., A FUNCTIONAL PROCESS MODEL FOR FLEXIBLE ASSEMBLY CELLS

Perez, J.-C., Rouchy, I., Hertzberger, L.O., Groen, F.C.A., INCREASING AUTONOMY OF ASSEMBLY ROBOTS WITH ARTIFICIAL INTELLIGENCE

Simsik, D., Kovac, J., Madarasz, L., THE APPLICATION OF EXPERT SYSTEMS IN THE DESIGN OF ROBOTIC ASSEMBLY LINES

Vasireddy, R.L., DESIGN AND IMPLEMENTATION OF AN EXPERT SYSTEM TO AID THE SELECTION OF A SMALL PARTS HANDLING SYSTEM, M.S. THESIS

3.4 NAVAL, AEROSPACE, AND MILITARY COMPUTING

Barthes, J.-P.A., Noan, Y., A COMMAND AND CONTROL SYSTEM BASED ON A MULTI-MEDIA OBJECT-ORIENTED DATA BASE AND A LOGIC PROGRAMMING LANGUAGE

Brown, D., Carson, J.M., EMBEDDED EXPERT SYSTEMS FOR AVIONICS APPLICATIONS

Burgin, G.H., IMPROVEMENTS TO THE ADAPTIVE MANEUVERING LOGIC PROGRAM.

Christenson, K.K., COVERT RADAR SCAN CONTROL ALGORITHM.


Goring, C.J., A PRACTICAL APPROACH TO DIVERSITY AND REDUNDANCY

Hueschen, R.M., McManus, J.W., APPLICATION OF AI METHODS TO AIRCRAFT GUIDANCE AND CONTROL

Kohn, W., SYMBOLIC GENERATOR OF STATE SPACE MODELS (ATTITUDE DYNAMICS DEVELOPMENT)

Liow, Y., ARTIFICIAL INTELLIGENCE METHODS IN DECISION AND CONTROL SYSTEMS, D.SC. THESIS
Missaien, L., Lecluyse, H., Massart, J.-P., Bruynooghe, M., NAVIGATION ALGORITHMS FOR A MOBILE ROBOT USING ULTRASONIC SENSORS
Pazzani, M.J., FAILURE-DRIVEN LEARNING OF FAULT DIAGNOSIS HEURISTICS
Rang, E.R., Thelen, K.H., FLIGHT CONTROL SOFTWARE FOR TEST GENERATION
Subramanian, M.R., IMPLEMENTATION OF COMBAT SIMULATION THROUGH EXPERT SUPPORT SYSTEMS
Tobias, L., Scoggins, J., TIME-BASED AIR TRAFFIC MANAGEMENT USING EXPERT SYSTEMS
Tsuruta, S., Inaishi, M., Matsumura, H., Sugisaki, A.M., BASIC RESEARCH ON THE DEVELOPMENT OF THE EXPERT SYSTEM FOR COPING WITH THE EX POST FACTO (COLLISION ACCIDENT) AT SEA
Van Zutphen, A.C., STATE OF THE ART: CUTTER SUCTION DREDGE AUTOMATION.
Vick, S., Lindenmayer, K., VERIFICATION AND VALIDATION OF RULEBASED SYSTEMS FOR HUBBLE SPACE TELESCOPE GROUND SUPPORT
Zeng, X.-Z., Sun, H.-D., Ruan, J.-J., Yuan, Z.-J., Tu, C.-Y., STRATEGY 1: DISTRIBUTED MILITARY STRATEGY EXPERT SYSTEM ON A MICROCOMPUTER ETHERNET

3.5 MEDICAL COMPUTING

Castineiras, A.V., Fernandez, G.F., Feliu, J., A SYSTEM FOR KNOWLEDGE INDUCTION AND PROTOCOL MANAGEMENT AID IN ONCOLOGY
Deutsch, T., Boroujerdi, M. A., Carson, E. R., Harvey, F. E., Sonksen, P. H., Tamas, G., Williams, C. D., PRINCIPLES AND PROTOTYPING OF A KNOWLEDGE-BASED DIABETES MANAGEMENT SYSTEM.
Deutsch, T., Futo, I., Papp, I., THE USE OF TC-PROLOG FOR MEDICAL SIMULATION
Elion, J.L., Nissen, S.E., A KNOWLEDGE-BASED IMAGE PROCESSING SYSTEM FOR THE INTERPRETATION OF CORONARY ARTERIOGRAMS
Ernst, C.J., A DECISION SUPPORT SYSTEM FOR NURSING MANAGEMENT CONTROL
Ernst, C.J., A RELATIONAL EXPERT SYSTEM FOR NURSING MANAGEMENT CONTROL
Futo, I., Papp, I., USE OF TC-PROLOG FOR MEDICAL SIMULATION.

3.6 MECHANICAL ENGINEERING

Bond, A. H., Chang, K. J., FEATURE-BASED PROCESS PLANNING FOR MACHINED PARTS.
Castelain, E., Corbeel, D., Gentina, J.C., COMPARATIVE SIMULATIONS OF CONTROL BY PROCESSES DESCRIBED BY PETRI NETS
Chancelier, P., Gomez, C., Blankenship, G.L., LaVigna, A., Quadrat, J.P., Sulem, A., MacEnany, D.C., Yan, I., AN EXPERT SYSTEM FOR CONTROL AND SIGNAL PROCESSING WITH AUTOMATIC FORTRAN PROGRAM GENERATION
Dorn, L., Majumder, S., EXPERT SYSTEM FOR WELDING - WELDEX SYSTEM FOR COMPUTER-AIDED OPTIMIZATION OF WELDING TECHNOLOGY.
Fukuda, S., DEVELOPMENT OF MAINTENANCE SUPPORT SYSTEM FOR OIL STORAGE TANKS USING PROLOG.
Fukuda, S., DEVELOPMENT OF WELCON: A PROTOTYPE EXPERT SYSTEM FOR SUPPORTING THE DETERMINATION OF A WELDING
CONDITION

Fukuda, S., GRAPH THEORY APPROACH TO THE ASSURANCE OF STRUCTURAL INTEGRITY: CONSTRUCTION OF A DECISION SUPPORT SYSTEM USING PROLOG.

Fukuda, S., Maeda, A., Kimura, M., DEVELOPMENT OF AN EXPERT SYSTEM FOR WELD DESIGN SUPPORT. (TO PROVIDE ADVICE ON DETERMINATION OF WELD CONDITIONS TO PREVENT WELD CRACKING IN A PRESSURE VESSEL).

Fukuda, S., Maeda, A., Kimura, M., EXPERT SYSTEM FOR WELDING AS A BETTER MEANS OF COMMUNICATION.

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Goff, K.W., ARTIFICIAL INTELLIGENCE IN PROCESS CONTROL.

Hedges, S., Giorgi, B., PROMETHEUS-AN EXPERT SYSTEMS TOOLKIT IN PROLOG.

Kar, A., SELECT: A PROCESS SELECTOR FOR THE SMALL JOBBER.

Norman, P., Voon, Y.W., EXPERT SYSTEMS IN THE SELECTION OF PROCESS EQUIPMENT.

Poppleston, R.J., INTEGRATED DESIGN SYSTEM FOR ENGINEERING.

Van Zurphen, A. C., STATE OF THE ART: CUTTER SUCTION DREDGE AUTOMATION.


3.7 ELECTRICAL AND ELECTRONICS ENGINEERING

Baba, M.F., Rahman, S., EXPERT SYSTEMS AND THEIR APPLICATIONS IN ENERGY MANAGEMENT.


Chancelier, P., Gomez, C., Blankenship, G.L., LaVigna, A., Quadrat, J.P., Sulem, A., MacEnany, D.C., Yan, I., AN EXPERT SYSTEM FOR CONTROL AND SIGNAL PROCESSING WITH AUTOMATIC FORTRAN CODE GENERATION.

PROGRAM GENERATION

Cheng, S. J., Malik, O. P., Hope, G. S., DATA BASE MANAGEMENT SYSTEM AND ITS APPLICATION IN A VOLTAGE AND REACTIVE POWER CONTROL EXPERT SYSTEM.

Farinas-del-Cerro, L., Soulihi, S., MUTUAL BELIEF LOGIC FOR PROCESSING DEFINITE REFERENCE.

Fish, A.N., INTERFACING PROLOG TO SUPERVISORY CONTROL SYSTEMS: A DEVELOPMENT TOOL AND APPLICATION.

Gomez, C., Quadrat, J.P., Sulem, A., Blankenship, G.L., Kumar, P., LaVigna, A., MacEnany, D.C., Paul, K., Yan, I., EXPERT SYSTEM FOR CONTROL AND SIGNAL PROCESSING WITH AUTOMATIC FORTRAN CODE GENERATION.

Jiang, J., Doraiswami, R., A NOVEL STRUCTURE OF REAL-TIME EXPERT CONTROL SYSTEM FOR PROCESS INDUSTRY.

Kirkwood, N., Weeks, D.J., DIAGNOSING BATTERY BEHAVIOR WITH AN EXPERT SYSTEM IN PROLOG.

Kitson, B., Ow-Wing, K., LOGIC-PROGRAMMING LANGUAGE ENRICHES DESIGN PROCESSES.

Missaien, L., Lecluyse, H., Massart, J.-P., Bruynooghe, M., NAVIGATION ALGORITHMS FOR A MOBILE ROBOT USING ULTRASONIC SENSORS.

Morishima, S., Harashima, H., Miyakawa, H., A PROPOSAL OF A KNOWLEDGE BASED ISOLATED WORD RECOGNITION.

Mrozek, A., ROUGH SETS AND DEPENDENCY ANALYSIS AMONG ATTRIBUTES IN COMPUTER IMPLEMENTATIONS OF EXPERTS INFERENCE MODELS.

Stoeva, S.P., Bobcheva, M.L., CONTROL ALGORITHM SYNTHESIS OF INVERTER SCHEMES.

Wah, B.W., Li, G.J., Yu, C.F., MULTIPROCESSING OF COMBINATORIAL SEARCH PROGRAMS.

3.8 CHEMICAL ENGINEERING

Armstrong, J.L., Hibbert, D.B., REPRESENTATION AND MATCHING OF CHEMICAL STRUCTURES BY A PROLOG PROGRAM.

Cooper, W.D., PRODUCTIVITY IMPROVEMENT WITH INTEGRATED CONTROL SYSTEMS.

Fukuda, S., DEVELOPMENT OF AN EXPERT SYSTEM FOR THE SUPPORT OF OIL STORAGE TANK DESIGN.
Fukuda, S., DEVELOPMENT OF MAINTENANCE SUPPORT SYSTEM FOR OIL STORAGE TANKS USING PROLOG.

Fukuda, S., Motooka, T., DEVELOPMENT OF A DECISION SUPPORT SYSTEM FOR THE MAINTENANCE OF A STRUCTURE: (1ST REPORT, FOR APPLICATION TO CORROSION OF AN OIL STORAGE TANK).

Kirkwood, N., Weeks, D.J., DIAGNOSING BATTERY BEHAVIOR WITH AN EXPERT SYSTEM IN PROLOG

Mrozek, A., ROUGH SETS AND DEPENDENCY ANALYSIS AMONG ATTRIBUTES IN COMPUTER IMPLEMENTATIONS OF EXPERTS INFERENCE MODELS.


Norman, P., Voon, Y.W., EXPERT SYSTEMS IN THE SELECTION OF PROCESS EQUIPMENT

Reynolds, C.F., A MICROCOMPUTER PACKAGE FOR DEMONSTRATING INFORMATION PROCESSING CONCEPTS.

Suwa, M., Suzuki, A., INFERENCE MODEL FOR PREDICTING A PINCHING EFFECT IN THE CO-DECONTAMINATION EXTRACTION PROCESS IN A PUREX FUEL REPROCESSING PLANT.

3.9 CIVIL ENGINEERING AND TRANSPORTATION

Adey, S., PLANNING AND EXECUTING PLANS WITHIN A NAVAL SIMULATOR

Alim, Seema, PROLOG-BASED EXPERT SYSTEM FOR ENCODING SEISMIC DESIGN PROVISIONS

Blockley, D. I., Baldwin, J.F., UNCERTAIN INFERENCE IN KNOWLEDGE-BASED SYSTEMS.

Britton, S.G., COMPUTER-BASED EXPERT SYSTEM AIDS UNDERGROUND MINE PLANNING.

Coelho, H., LOGIC PROGRAMMING PARADIGM AT WORK: THE CASE OF A CIVIL ENGINEERING ENVIRONMENT

De Castilho, B., Navin, F., RULE-BASED SYSTEM FOR HIGHWAY ROUTE LOCATION.

Lolonis, P., Armstrong, M.P., DESIGN OF AN EXPERT SYSTEM FOR SPATIAL PLANNING

Naveed, S., AN INVESTIGATION OF THE METHODOLOGY FOR ACQUIRING AND STRUCTURING KNOWLEDGE, FOR EXPERT PROCESS SUPERVISION, PH.D. THESIS

Ramache, A., Bell, M.G.H., THE LOCATION OF ROADSIDE OBJECTS: AN EXPERT SYSTEM TO ASSESS THE SAFETY ASPECTS

Rosenman, M.A., Gero, J.S., DESIGN CODES AS EXPERT SYSTEMS

Sardar A., Saleh, H., ARTIFICIAL INTELLIGENCE AND COMPUTER AIDED DESIGN IN CIVIL ENGINEERING

Swinson, P.S., Pereira, F.C., Bijl, A., A FACT DEPENDENCY SYSTEM FOR THE LOGIC PROGRAMMER.

Tanunlirong, E., Muthuswamy, B., CEDSS: CONSTRUCTION ESTIMATION DECISION SUPPORT SYSTEM

Van Zutphen, A. C., STATE OF THE ART: CUTTER SUCTION DREDGE AUTOMATION.

3.10 MANAGEMENT AND DECISION MAKING

Ben-Arie, D., KNOWLEDGE BASED CONTROL SYSTEM FOR AUTOMATED PRODUCTION AND ASSEMBLY, EXPERT SYSTEM, SCHEDULING, PH.D. THESIS

Ben-Arie, D., MANUFACTURING SYSTEM APPLICATION OF A KNOWLEDGE BASED SIMULATION

Erschler, J., Esquirol, P., DECISION-AID IN JOB SHOP SCHEDULING: A KNOWLEDGE BASED APPROACH

Freedman, P., Malowany, A., THE ANALYSIS AND OPTIMIZATION OF REPETITION WITHIN ROBOT WORKCELL SEQUENCING PROBLEMS

Freedman, P., OPTIMAL SEQUENCING OF WORKCELL OPERATIONS WITH DETERMINISTIC OUTCOMES, PH.D. THESIS

Hatch, R.A., Koster, A., Marder, S., SELECTION OF PROGRAMMING LANGUAGES FOR THE COMPUTER INFORMATION SYSTEMS CURRICULUM

Hsu, W.-L., A PROGRAMMING LANGUAGE SYSTEM FOR DECISION SUPPORT SYSTEMS, PH.D. THESIS

Hutson, D. V., PROGRAM FOR SCHEDULING A PATROL AIR WING TRAINING PLAN (MASTERS
THESES)
Kimbrough, S.O., Lee, R.M., LOGIC MODELING: A TOOL FOR MANAGEMENT SCIENCE.
Lee, R.M., A LOGIC PROGRAMMING APPROACH TO BUILDING PLANNING AND SIMULATION MODELS
Lee, R.M., Bose, R., DEONTIC REASONING IN BUREAUCRATIC SYSTEMS
Lee, R.M., Miller, L.W., A LOGIC PROGRAMMING FRAMEWORK FOR PLANNING AND SIMULATION
Lolonis, P., Armstrong, M.P., DESIGN OF AN EXPERT SYSTEM FOR SPATIAL PLANNING
Minch, R.P., LOGIC PROGRAMMING FOR FINANCIAL PLANNING: A PROLOG BASED APPROACH.
Norman, P., Voon, Y.W., EXPERT SYSTEMS IN THE SELECTION OF PROCESS EQUIPMENT
Olson, A.P., Cha, B.-C., Laid, W.G., McColloch, D.L., POLICY ANALYSIS AND DECISION AIDS FOR ENERGY CRISIS MANAGEMENT
Ostermark, R., Salmela, H., CONNECTING EXPERT SYSTEM FEATURES TO A MULTIPLE CRITERIA PROGRAMMING BASED DECISION SUPPORT SYSTEM
Szenea, K., Doumeingts, G., Carter, W.A., AN APPLICATION OF A PARALLEL SYSTEMS PLANNING LANGUAGE IN DECISION SUPPORT-PRODUCTION SCHEDULING
Tam, G.W., Kotras, T.V., Dillingham, J., PROTOTYPE EXPERT SYSTEM CONTAINERSHIP FOR STOWAGE PLANNING
Widmeyer, G., LOGIC MODELING WITH PARTIALLY ORDERED PREFERENCES
Widmeyer, G., Lee, R.M., PREFERENCE ELICITATION IN DECISION AIDING: APPLICATION TO ELECTRONIC SHOPPING

3.11 MATHEMATICS AND MODELLING
Antonov, A., Raichev, B., Ivanov, S., Nikolov, N., Nikolov, W., Stoitschev, L., COMPUTER ARCHITECTURE AND SOFTWARE DESIGN OF A DISTRIBUTED DIGITAL INTEGRATING MACHINE
Baldwin, J.F., AN UNCERTAINTY CALCULUS FOR EXPERT SYSTEMS
Baldwin, J.F., EVIDENTIAL SUPPORT LOGIC PROGRAMMING

Borges da Silva, L.E., April, G.-E., Olivier, G., FUZZY-FORTH RULE BASED PRODUCTION SYSTEM FOR REAL TIME CONTROL SYSTEMS
Castelain, E., Corbeel, D., Gentina, J.C., COMPARATIVE SIMULATIONS OF CONTROL BY PROCESSES DESCRIBED BY PETRI NETS
Chiu, S., Togai, M., A FUZZY LOGIC PROGRAMMING ENVIRONMENT FOR REAL-TIME CONTROL
Davies, B.J., Darbyshire, I.L., Wright, A.J., Park, M.W., INTEGRATION OF PROCESS PLANNING WITH CAD CAM INCLUDING THE USE OF EXPERT SYSTEMS.
Davis, R.H., Camacho, M., APPLICATION OF LOGIC PROGRAMMING TO THE GENERATION OF PATHS FOR ROBOTS.
Freedman, P., Malowany, A., SAGE: A DECISION SUPPORT SYSTEM FOR THE SEQUENCING OF OPERATIONS WITHIN A ROBOTIC WORKCELL
Freedman, P., Malowany, A., THE ANALYSIS AND OPTIMIZATION OF REPETITION WITHIN ROBOT WORKCELL SEQUENCING PROBLEMS
Gibbins, P., LOGIC WITH PROLOG
Hudson, R., Vroomen, L., Karasick, M., BINARY DECISION PROGRAM OPTIMIZATION ALGORITHMS
Jayaraman, B., SEMANTICS OF EQL
Kifer, M., Lozinskii, E.L., SYGRAF: IMPLEMENTING LOGIC PROGRAMS IN A DATABASE STYLE
Kimbrough, S.O., Lee, R.M., LOGIC MODELING: A TOOL FOR MANAGEMENT SCIENCE
Kohn, W., SYMBOLIC GENERATOR OF STATE SPACE MODELS (ATTITUDE DYNAMICS DEVELOPMENT)
Kowalski, R., THE ORIGINS OF LOGIC PROGRAMMING.
Krishnan, R., PM: A LOGIC MODELING LANGUAGE FOR PRODUCTION, DISTRIBUTION AND INVENTORY PLANNING
Lee, R.M., A LOGIC PROGRAMMING APPROACH TO BUILDING PLANNING AND SIMULATION MODELS
Lee, R.M., Miller, L.W., A LOGIC PROGRAMMING FRAMEWORK FOR PLANNING AND SIMULATION
Li, Han-Lin, SOLVING DISCRETE MULTICRITERIA DECISION PROBLEMS BASED ON LOGIC-BASED
DECISION SUPPORT SYSTEMS

Lirov, Y., ARTIFICIAL INTELLIGENCE METHODS IN DECISION AND CONTROL SYSTEMS, D.SC. THESIS

Lirov, Y., Rodin, E.Y., McElhaney, B.G., Wilbur, L.W., ARTIFICIAL INTELLIGENCE MODELLING OF CONTROL SYSTEMS

Muller-Krumbhaar, H., FUZZY LOGIC, M-SPIN GLASSES AND 3-SAT

Nakagawa, T., Ogawa, H., THE IDENTIFICATION AND CONTROL PARTIALLY ADDED WITH THE ARTIFICIAL INTELLIGENCE APPROACH

Negretto, U., A FUNCTIONAL PROCESS MODEL FOR FLEXIBLE ASSEMBLY CELLS

Ostroff, J.S., Wonham, W.M., A TEMPORAL LOGIC APPROACH TO REAL TIME CONTROL (PROCESS CONTROL)

Peterka, G., Murata, T., PROOF PROCEDURE AND ANSWER EXTRACTION IN PETRI NET MODEL OF LOGIC PROGRAMS

Richter, M.M., AI-CONCEPTS AND OR-TOOLS IN ADVANCED DSS

Tejwani, Y.J., Jones, R.A., DECISION SUPPORT FOR FUZZY, PROBABILISTIC AND CONTROL PROCESSES: A PROLOG ASSISTANT

Tholen, A.D., SIMULATION AND GAMING METHODS FOR ANALYSIS OF LOGISTICS

Ullman, J.D., Van Gelder, A., EFFICIENT TESTS FOR TOP-DOWN TERMINATION OF LOGICAL RULES

Vachtsevanos, G., SENSOR FAILURE DETECTION USING A HYBRID ANALYTICAL/INTELLIGENT ALGORITHM

Wah, B.W., Li, G.J., Yu, C.F., MULTIPROCESSING OF COMBINATORIAL SEARCH PROGRAMS.

Widmeyer, G., LOGIC MODELING WITH PARTIALLY ORDERED PREFERENCES

Widmeyer, G., Lee, R.M., PREFERENCE ELICITATION IN DECISION AIDING: APPLICATION TO ELECTRONIC SHOPPING

Zeng, X.-Z., Sun, H.-D., Ruan, J.-J., Yuan, Z.-J., Tu, C.-Y., STRATEGY I: DISTRIBUTED MILITARY STRATEGY EXPERT SYSTEM ON A MICROCOMPUTER ETHERNET

3.12 DATA PROCESSING

Auer, A., Kemppainen, P., Okkonen, A., Seppanen, V., AUTOMATED CODE GENERATION OF EMBEDDED REAL-TIME SYSTEMS

Bader, J., Cochran, A., Edwards, J., Hannaford, D., INTELLIPSE: A KNOWLEDGE-BASED TOOL TO SUPPORT THE DESIGN, OF COMMERCIAL DATA PROCESSING SYSTEMS

Banhe, J.-P.A., Le Noan, Y., A COMMAND AND CONTROL SYSTEM BASED ON A MULTI-MEDIA OBJECT-ORIENTED DATA BASE AND A LOGIC PROGRAMMING LANGUAGE

Bertin, B., Malvache, P., Le Guillou, G., Gaillard, P., SIGNAL ACQUISITION AND PROCESSING SYSTEM FOR THE SURVEILLANCE AND DIAGNOSTICS OF A COMPLEX SYSTEM

Bibel, W., Letz, R., Schumann, J., BOTTOM-UP ENHANCEMENTS OF DEDUCTIVE SYSTEMS

Bixby, R.L., DOD (DEPARTMENT OF DEFENSE) GATEWAY INFORMATION SYSTEM (DGIS): COMMON COMMAND LANGUAGE MAPPING

Bullers, W.I., Jr., Burd, S.D., Kassicieh, S.K., IMPLEMENTATION ISSUES FOR INTELLIGENT DECISION SUPPORT SYSTEMS

Bullers, W.I., Jr., LOGIC PROGRAMMING FOR MANUFACTURING SYSTEM SPECIFICATION

Burd, S.D., Kassicieh, S.K., A PROLOG-BASED DECISION SUPPORT SYSTEM FOR COMPUTER CAPACITY PLANNING

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Cheng, S.J., Malik, O.P., Hope, G.S., DATA BASE MANAGEMENT SYSTEM AND ITS APPLICATION IN A VOLTAGE AND REACTIVE POWER CONTROL EXPERT SYSTEM.

Cuadrado, C.Y., Cuadrado, J.L., PROLOG GOES TO WORK: WHAT PROLOG IS, WHO'S USING IT, AND WHY,

Davis, R. H., Camacho, M., APPLICATION OF LOGIC PROGRAMMING TO THE GENERATION OF PATHS FOR ROBOTS.

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SYSTEM AID

Emrst, C.J., A DECISION SUPPORT SYSTEM FOR NURSING MANAGEMENT CONTROL

Fong, J. T., PC-BASED EXPERT SYSTEMS FOR MANAGING ENGINEERING DATA.

Gal, A., Minker, J., INFORMATIVE AND COOPERATIVE ANSWERS IN DATABASES USING INTEGRITY CONSTRAINTS

Giannoui, F., Bonsignori, A., Ciaramella, N., Turini, F., A DEDUCTIVE SPREADSHEET BASED ON A PARTIAL LOGIC EVALUATOR

Goring, C.J., A PRACTICAL APPROACH TO DIVERSITY AND REDUNDANCY

Gray, P., Lucas, R. J., PROLOG & DATABASES: IMPLEMENTATION & NEW DIRECTIONS

Harvey, F. A., APPLICATIONS OF ARTIFICIAL INTELLIGENCE TO INFORMATION SEARCH AND RETRIEVAL, THE DEVELOPMENT AND TESTING OF AN INTELLIGENT TECHNICAL INFORMATION SYSTEM

Hruschka, H., SOME RECENT APPROACHES TO REPRESENTATION OF METHODOICAL AND MODELING KNOWLEDGE IN MANAGEMENT DECISION SUPPORT SYSTEMS

Jayaraman, B., SEMANTICS OF EQL

Kar, A., SELECT: A PROCESS SELECTOR FOR THE SMALL JOBBER.

Ketonen, J.A., TOWARD REASONING ABOUT DATA. (INCLUDES RELATED ARTICLE ON STRUCTURED QUERY LANGUAGE)

Kifer, M., Lozinskii, E.L., SYGRAF: IMPLEMENTING LOGIC PROGRAMS IN A DATABASE STYLE

Krishnan, R., PM: A LOGIC MODELING LANGUAGE FOR PRODUCTION, DISTRIBUTION AND INVENTORY PLANNING

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Kuhn, A. D., DOD GATEWAY INFORMATION SYSTEM (DGIS) COMMON COMMAND LANGUAGE: THE DECISION FOR ARTIFICIAL INTELLIGENCE

Lafue, G., BASIC DECISIONS ABOUT LINKING AN EXPERT SYSTEM WITH A DBMS: A CASE STUDY.

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Li, Han-Lin, DEVELOP A DATA-KNOWLEDGE BASE MANAGEMENT SYSTEM BY UTILIZING RELATIONAL DATABASE MANAGEMENT SYSTEMS.

Liu, C.-C., Lee, S.J., Venkata, S.S., AN EXPERT SYSTEM OPERATIONAL AID FOR RESTORATION AND LOSS REDUCTION OF DISTRIBUTION SYSTEMS

Logrippo, L., Skuce, D.R., FILE STRUCTURES, PROGRAM STRUCTURES, AND ATTRIBUTED GRAMMARS.

Lucas, R., DATABASE APPLICATIONS USING PROLOG

Lucy, K., Nebel, B., Petlason, C., Schmiedel, A., ANATOMY OF THE BACK SYSTEM

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Malpas, J., PROLOG AS A UNIX SYSTEM TOOL.

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Monfroglio, A., TIMETABLING THROUGH A DEDUCTIVE DATABASE: A CASE STUDY

Mrozek, A., ROUGH SETS AND DEPENDENCY ANALYSIS AMONG ATTRIBUTES IN COMPUTER IMPLEMENTATIONS OF EXPERTS INFERENCE MODELS.

Naughton, J.F., MINIMIZING FUNCTION-FREE RECURSIVE INference RULES

Potts, C., Bruns, G., RECORDING THE REASONS FOR DESIGN DECISIONS

Qi Zhen Chen, THE MODELING OF PMS SIMULATION

Reilly, K.D., Salah, A., Yang, C.-C., A LOGIC PROGRAMMING PERSPECTIVE ON DECISION TABLE THEORY AND PRACTICE

Schoppers, M.J., LOGIC-PROGRAMMING PRODUCTION SYSTEMS WITH METALOG.

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Twerwilliger, R.B., Campbell, R.H., AN EARLY REPORT ON ENCOMPASS

Van Emde Boas-Lubsen, G., Van Emde Boas, P., STORING AND EVALUATING HORN-CLAUSE RULES IN A RELATIONAL DATABASE

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Wing, J.M., Nixon, M.R., EXTENDING INA JO WITH TEMPORAL LOGIC (PROOF SYSTEMS)

Yang, C.-C., DEDUCTION GRAPHS: AN ALGORITHM AND APPLICATIONS

Zeng, X.-Z., Sun, H.-D., Ruan, J.-J., Yuan, Z.-J., Tu, C.-Y., STRATEGY I: DISTRIBUTED MILITARY STRATEGY EXPERT SYSTEM ON A MICROCOMPUTER ETHERNET

3.13 EDUCATIONAL COMPUTING AND LEGISLATION

Clark, E. G., EDUCATIONAL EXPERT SYSTEM SHELL INTEGRATING OBJECT-ATTRIBUTE-VALUE TRIPLES AND FRAMES (MASTERS THESIS)

Clocksin, W.F., A PROLOG PRIMER: AN INTRODUCTION AND TUTORIAL TO THE POPULAR ARTIFICIAL INTELLIGENCE LANGUAGE.

Coelho, H., Costa, J. C., PROLOG BY EXAMPLE


Covington, M., Vellino, A., Nute, D., PROLOG PROGRAMMING IN DEPTH

Crookes, D., INTRODUCTION TO PROGRAMMING IN PROLOG

Dean, J., Alp, P., LINX-A TOOL FOR CHILDREN'S THINKING

Escamilia, T., AN ARTICULATE EXPERT FOR KNOWLEDGE-BASED TUTORING OF DISTANCE PROBLEMS, M.S. THESIS

Fiedler, H., Gordon, T.F., LAWS AND LEGAL PROCESSES AS PARADIGM OF KNOWLEDGE-BASED SYSTEMS

Hatch, R.A., Koster, A., Marder, S., SELECTION OF PROGRAMMING LANGUAGES FOR THE COMPUTER INFORMATION SYSTEMS CURRICULUM

Heffernan, H., COMPUTER TESTING GAUGES IMPACT AND AMBIGUITY OF LAWS.

Hutson, D. V., PROGRAM FOR SCHEDULING A PATROL AIR WING TRAINING PLAN (MASTERS THESIS)

Lassez, C., CONSTRAINT LOGIC PROGRAMMING: A NEW GENERAL FRAMEWORK FOR DEVELOPING LANGUAGES MORE POWERFUL THAN TRADITIONAL LOGIC PROGRAMMING LANGUAGES.

Pomper, M., A SEMIOTIC ANALYSIS OF LOGO IN PRACTICE, PH.D. THESIS

Reynolds, C.F., A MICROCOMPUTER PACKAGE FOR DEMONSTRATING INFORMATION PROCESSING CONCEPTS

Schaffer, J., DEVELOPING AN INTELLIGENT MUSIC TUTORIAL, PH.D. THESIS
Logic programming applications


Valtorta, M.G., Smith, B.T., Loveland, D.W., THE GRADUATE COURSE ADVISOR: A MULTI-PHASE RULE-BASED EXPERT SYSTEM

Wuwongse, V., De Veyra P.R., A MICROCOMPUTER BASED DSS FOR SCHOLARSHIP ALLOCATION

Wuwongse, V., De Veyra P.R., A MICROCOMPUTER-BASED DECISION SUPPORT SYSTEM FOR SCHOLARSHIP ALLOCATION

3.14 BUSINESS AND FINANCE

Barry, J., THE LOAN OFFICERS EXPERT SYSTEM, M.S. THESIS

Ernest-Jones, T., TELECOMPUTING GETS EXPERT SYSTEM AID

Hammond, P., REPRESENTATION OF DHSS REGULATIONS AS A LOGIC PROGRAM

Hsu, W.-L., A PROGRAMMING LANGUAGE SYSTEM FOR DECISION SUPPORT SYSTEMS, PH.D. THESIS

Huynh, T., Lassez, C., A CLP(R) OPTIONS TRADING ANALYSIS SYSTEM

Krishnan, R., PM: A LOGIC MODELING LANGUAGE FOR PRODUCTION, DISTRIBUTION AND INVENTORY PLANNING

Lassez, C., McAloon, K., Yap, R., CONSTRAINT LOGIC PROGRAMMING AND OPTION TRADING.

Lee, J.B., INTELLIGENT DECISION SUPPORT SYSTEMS FOR BUSINESS APPLICATIONS, PH.D THESIS

Lee, J.B., Stohr, E.A., REPRESENTING KNOWLEDGE FOR PORTFOLIO MANAGEMENT DECISION MAKING

Liang, T.-P., TOWARD THE DEVELOPMENT OF A KNOWLEDGE-BASED MODEL MANAGEMENT SYSTEM, PH.D. THESIS

Lu Ping, Zhang Qian, SHANGHAI MACROECONOMIC DECISION SUPPORT SYSTEM IN PROLOG

Minch, R.P., LOGIC PROGRAMMING AS A PARADIGM FOR FINANCIAL MODELING

Naveed, S., AN INVESTIGATION OF THE METHODOLOGY FOR ACQUIRING AND STRUCTURING KNOWLEDGE, FOR EXPERT PROCESS SUPERVISION, PH.D. THESIS

Nute, D., Mann, R., Brewer, B., USING DEFEASIBLE LOGIC TO CONTROL SELECTION OF A BUSINESS FORECASTING METHOD

Reynolds, C.F., A MICROCOMPUTER PACKAGE FOR DEMONSTRATING INFORMATION PROCESSING CONCEPTS

Talluru, L.R., Akgiray, V., KNOWLEDGE REPRESENTATION FOR INVESTMENT STRATEGY SELECTION

Torsun, I.S., PAYE-A TAX EXPERT SYSTEM

Tsir, S., LDL - A TECHNOLOGY FOR THE REALIZATION OF TIGHTLY COUPLED EXPERT DATABASE SYSTEMS. (LOGIC DATA LANGUAGE)

Xia S.-W., Yao J., Xie Z.-J., A KNOWLEDGE-BASED DECISION AID SYSTEM FOR ECONOMIC ANALYSIS

3.15 PROBLEM SOLVING

Bibel, W., Letz, R., Schumann, J., BOTTOM-UP ENHANCEMENTS OF DEDUCTIVE SYSTEMS

Bundy, A., THE COMPUTER MODELLING OF MATHEMATICAL REASONING

Cuadrado, C.Y., Cuadrado, I.L., PROLOG GOES TO WORK: WHAT PROLOG IS, WHO'S USING IT, AND WHY.

Dahl, V., LOGIC PROGRAMMING AS A REPRESENTATION OF KNOWLEDGE.

De Raedt, L., Krekel, B., Bruynooghe, M., Van Meir, D., USING SHAPIROS MODEL INFERENCE SYSTEM FOR CONCEPT LEARNING

Dechter, R., LEARNING WHILE SEARCHING IN CONSTRAINT-SATISFACTION-PROBLEMS

Elcock, E.W., HOW COMPLETE ARE KNOWLEDGE REPRESENTATION SYSTEMS?

Escamillia, T., AN ARTICULATE EXPERT FOR KNOWLEDGE-BASED TUTORING OF DISTANCE PROBLEMS, M.S. THESIS

Fogarty, T.C., MACHINE LEARNING OF RULES FOR COMBUSTION CONTROL IN MULTIPLE BURNER INSTALLATIONS.

Haley, P.V., A SEARCH STRATEGY FOR COMMONSENSE LOGIC PROGRAMMING: A HEURISTIC ALGORITHM FOR SEARCHING.

Jayaraman, B., SEMANTICS OF EQL

Ketonen, J.A., TOWARD REASONING ABOUT DATA. (INCLUDES RELATED ARTICLE ON STRUCTURED
QUERY LANGUAGE

Kowalski, R., AI AND SOFTWARE ENGINEERING.
Kowalski, R., LOGIC PROGRAMMING: PROLOG CAN BE USED AS EITHER A DECLARATIVE OR A PROCEDURAL PROGRAMMING LANGUAGE.
Kowalski, R., THE ORIGINS OF LOGIC PROGRAMMING.
Mattieligh, A., THE SEMANTIC LANGUAGE EPISODE UNDERSTANDING.
Mohan, C.K., Srivas, M.K., Kapur, D., REASONING IN SYSTEMS OF EQUATIONS AND INEQUALITIES.
Naughton, J.F., MINIMIZING FUNCTION-FREE RECURSIVE INFERENCE RULES.
Pazzani, M.J., REFINING THE KNOWLEDGE BASE OF A DIAGNOSTIC EXPERT SYSTEM: AN APPLICATION OF FAILURE-DRIVEN LEARNING.

Peterka, G., Murata, T., PROOF PROCEDURE AND ANSWER EXTRACTION IN PETRI NET MODEL OF LOGIC PROGRAMS.
Snyers, D., Thayse, A., ALGORITHMIC STATE MACHINE DESIGN AND AUTOMATIC THEOREM PROVING: TWO DUAL APPROACHES TO THE SAME ACTIVITY.
Vroonen, L., Zsombor-Murray, P., Baracos, P., Hudson, R., COMMENTS ON ALGORITHMIC STATE MACHINE DESIGN AND AUTOMATIC THEOREM PROVING: DUAL APPROACHES TO THE SAME ACTIVITY.
Wah, B.W., Li, G.J., Yu, C.F., MULTIPROCESSING OF COMBINATORIAL SEARCH PROGRAMS.
Yang, C.-C., DEDUCTION GRAPHS: AN ALGORITHM AND APPLICATIONS.

3.16 POWER SYSTEMS

Baba, M.F., Rahman, S., EXPERT SYSTEMS AND THEIR APPLICATIONS IN ENERGY MANAGEMENT.
Cheng, S. J., Malik, O. P., Hope, G. S., DATA BASE MANAGEMENT SYSTEM AND ITS APPLICATION IN A VOLTAGE AND REACTIVE POWER CONTROL EXPERT SYSTEM.
Cheng, S. J., Malik, O. P., Hope, G. S., EXPERT SYSTEM SHELL FOR CONTROL OF A LARGE INTER-CONNECTED SYSTEM.
Fogarty, T.C., MACHINE LEARNING OF RULES FOR COMBUSTION CONTROL IN MULTIPLE BURNER INSTALLATIONS.
Johnson, R.B.L., Cory, B.J., EXPERT DECISION-SUPPORT IN POWER SYSTEMS OPERATION.
Kitamura, M., Takanashi, M., Washio, T., Sugiyama, K., SYNTHESIS OF HEURISTIC KNOWLEDGE BASE FOR SUPPORTING DEVELOPMENT OF GOAL-ORIENTED REACTOR NOISE ANALYSIS PROGRAMS.
Kozlik, G. W., Bleakley, K. W., Skinner, B. C., ARTIFICIAL INTELLIGENCE SYSTEM OPTIMIZES BOILER PERFORMANCE.
Liu, C.-L., Lee, S.J., Venkata, S.S., AN EXPERT SYSTEM OPERATIONAL AID FOR RESTORATION AND LOSS REDUCTION OF DISTRIBUTION SYSTEMS.
Nara, K., Yamashiro, S., Yanaura, Y., APPLICATION OF AN EXPERT SYSTEM TO DECISIONS ON COUNTER MEASURES AGAINST SNOW ACCRETION ON TRANSMISSION LINES.
Sutrition, R. C., Town, G. G., COMPONENT CONFIGURATION CONTROL SYSTEM: AN APPLICATION OF LOGIC PROGRAMMING.
Suwa, M., Suzuki, A., INFERENCE MODEL FOR PREDICTING A PINCHING EFFECT IN THE CO-DECONTAMINATION EXTRACTION PROCESS IN A PUREX FUEL REPROCESSING PLANT.
Viviani, G.L., APPLICATIONS OF ARTIFICIAL INTELLIGENCE TO POWER SYSTEM OPERATIONAL PROBLEMS.

3.17 SAFETY, TESTING, AND DIAGNOSIS

Elcock, E.W., HOW COMPLETE ARE KNOWLEDGE REPRESENTATION SYSTEMS?
Finin, T., McAdams, J., Kleinosky, P., FOREST-AN EXPERT SYSTEM FOR AUTOMATED TEST EQUIPMENT.
Fukuda, S., DEVELOPMENT OF MAINTENANCE SUPPORT SYSTEM FOR OIL STORAGE TANKS USING PROLOG.
Goring, C.J., A PRACTICAL APPROACH TO DIVERSITY AND REDUNDANCY.
Heffeman, H., COMPUTER TESTING GAUGES.
Acknowledgements—The authors are grateful to Mary McVicar for her help with Dialog search and to Swaminathan Ravikumar for his help with AWK programming.

REFERENCES
4. APPENDIX

4.1 AUTHORS INDEX*

<table>
<thead>
<tr>
<th>Author</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aaby, A.</td>
<td>1</td>
</tr>
<tr>
<td>Aczel, M.</td>
<td>84</td>
</tr>
<tr>
<td>Adams, F.</td>
<td>158</td>
</tr>
<tr>
<td>Adey, S.</td>
<td>2</td>
</tr>
<tr>
<td>Agiray, V.</td>
<td>276</td>
</tr>
<tr>
<td>Alexandre, F. J.</td>
<td>235</td>
</tr>
<tr>
<td>Alim, Scema</td>
<td>3</td>
</tr>
<tr>
<td>Alp, P.</td>
<td>75</td>
</tr>
<tr>
<td>Ambrose, E.</td>
<td>31</td>
</tr>
<tr>
<td>Antalocy, Z.</td>
<td>152</td>
</tr>
<tr>
<td>Antonov, A.</td>
<td>4</td>
</tr>
<tr>
<td>April, G.-E.</td>
<td>33</td>
</tr>
<tr>
<td>Armstrong, J.L.</td>
<td>5</td>
</tr>
<tr>
<td>Armstrong, M.P.</td>
<td>204</td>
</tr>
<tr>
<td>Arnoux, M.</td>
<td>6, 7</td>
</tr>
<tr>
<td>Arsentyeva, A.V.</td>
<td>8</td>
</tr>
<tr>
<td>Asthana, A.</td>
<td>177</td>
</tr>
<tr>
<td>Auer, A.</td>
<td>9</td>
</tr>
<tr>
<td>Baba, M.F.</td>
<td>10</td>
</tr>
<tr>
<td>Bader, J.</td>
<td>11</td>
</tr>
<tr>
<td>Baldwin, J.F.</td>
<td>12, 13, 29</td>
</tr>
<tr>
<td>Baracos, P.</td>
<td>315</td>
</tr>
<tr>
<td>Barsak, J.</td>
<td>152</td>
</tr>
<tr>
<td>Barker, H.A.</td>
<td>14, 15</td>
</tr>
<tr>
<td>Barnes, B.H.</td>
<td>30</td>
</tr>
<tr>
<td>Barry, J.</td>
<td>16</td>
</tr>
<tr>
<td>Barthes, J.-P.A.</td>
<td>17</td>
</tr>
<tr>
<td>Becker, B.-D.</td>
<td>18</td>
</tr>
<tr>
<td>Becker, G.</td>
<td>6, 7</td>
</tr>
<tr>
<td>Bell, M.G.H.</td>
<td>256</td>
</tr>
<tr>
<td>Ben-Ariech, D.</td>
<td>19, 20, 21</td>
</tr>
<tr>
<td>Bertin, B.</td>
<td>22</td>
</tr>
<tr>
<td>Bharath, R.</td>
<td>23, 24</td>
</tr>
<tr>
<td>Bibel, W.</td>
<td>25</td>
</tr>
<tr>
<td>Bihan, P.</td>
<td>26</td>
</tr>
<tr>
<td>Bijl, A.</td>
<td>290</td>
</tr>
<tr>
<td>Bixby, R.L.</td>
<td>27, 180, 181</td>
</tr>
<tr>
<td>Black, G.</td>
<td>28</td>
</tr>
<tr>
<td>Blankenship, G.L.</td>
<td>47, 125</td>
</tr>
<tr>
<td>Bleakley, K. W.</td>
<td>176</td>
</tr>
<tr>
<td>Blockley, D. I.</td>
<td>29</td>
</tr>
<tr>
<td>Bobcheva, M.L.</td>
<td>285</td>
</tr>
<tr>
<td>Bollinger, T.</td>
<td>30</td>
</tr>
<tr>
<td>Bollinger, T. B.</td>
<td>31</td>
</tr>
<tr>
<td>Bonadonna, G.</td>
<td>118</td>
</tr>
<tr>
<td>Bond, A. H.</td>
<td>32</td>
</tr>
<tr>
<td>Bonsignori, A.</td>
<td>122</td>
</tr>
<tr>
<td>Borges da Silva, L.E.</td>
<td>33</td>
</tr>
<tr>
<td>Boroujerdi, M. A.</td>
<td>80</td>
</tr>
<tr>
<td>Bose, R.</td>
<td>191</td>
</tr>
<tr>
<td>Brandeiro, J.M.</td>
<td>119</td>
</tr>
<tr>
<td>Bratkoc, I.</td>
<td>34</td>
</tr>
<tr>
<td>Brewer, B.</td>
<td>240</td>
</tr>
<tr>
<td>Brewster, L.T.</td>
<td>105</td>
</tr>
<tr>
<td>Britton, S.G.</td>
<td>35</td>
</tr>
<tr>
<td>Brix, L. B.</td>
<td>235</td>
</tr>
<tr>
<td>Brown, D.</td>
<td>36</td>
</tr>
<tr>
<td>Bruderlin, B.</td>
<td>37</td>
</tr>
<tr>
<td>Bruns, G.</td>
<td>254</td>
</tr>
<tr>
<td>Bruynooghe, M.</td>
<td>74, 221</td>
</tr>
<tr>
<td>Bullers, W.I., Jr.</td>
<td>38, 39</td>
</tr>
<tr>
<td>Bundy, A.</td>
<td>40</td>
</tr>
<tr>
<td>Burd, S.D.</td>
<td>38, 41, 42</td>
</tr>
<tr>
<td>Burgin, G.H.</td>
<td>43</td>
</tr>
<tr>
<td>Burnham, W. D.</td>
<td>44</td>
</tr>
<tr>
<td>Camacho, M.</td>
<td>72</td>
</tr>
<tr>
<td>Campbell, R.H.</td>
<td>297, 304</td>
</tr>
<tr>
<td>Carson, E. R.</td>
<td>80</td>
</tr>
<tr>
<td>Carson, J.M.</td>
<td>36</td>
</tr>
<tr>
<td>Carter, W.A.</td>
<td>291</td>
</tr>
<tr>
<td>Castelain, E.</td>
<td>45</td>
</tr>
<tr>
<td>Castineiras, A.V.</td>
<td>46</td>
</tr>
<tr>
<td>Cha, B.-C.</td>
<td>243</td>
</tr>
<tr>
<td>Chancelier, P.</td>
<td>47</td>
</tr>
<tr>
<td>Chang, K. J.</td>
<td>32</td>
</tr>
<tr>
<td>Chen, M.</td>
<td>14, 15</td>
</tr>
<tr>
<td>Cheng, S. J.</td>
<td>48, 49</td>
</tr>
<tr>
<td>Chiu, S.</td>
<td>50</td>
</tr>
<tr>
<td>Chorvatova, T.</td>
<td>218</td>
</tr>
<tr>
<td>Christenson, K.K.</td>
<td>51</td>
</tr>
<tr>
<td>Ciaramella, N.</td>
<td>122</td>
</tr>
<tr>
<td>Clark, E. G.</td>
<td>52</td>
</tr>
<tr>
<td>Clark, Keith L.</td>
<td>53</td>
</tr>
<tr>
<td>Clocksin, W.F.</td>
<td>54, 55, 56</td>
</tr>
<tr>
<td>Clutterbuck, D.L.</td>
<td>241</td>
</tr>
<tr>
<td>Cochran, A.</td>
<td>11</td>
</tr>
<tr>
<td>Cockett, J.R.B.</td>
<td>57</td>
</tr>
<tr>
<td>Coelho, H.</td>
<td>58, 59, 60</td>
</tr>
<tr>
<td>Console, L.</td>
<td>61</td>
</tr>
<tr>
<td>Cooke, D.E.</td>
<td>62</td>
</tr>
<tr>
<td>Cooper, W.D.</td>
<td>63</td>
</tr>
<tr>
<td>Corbeel, D.</td>
<td>45</td>
</tr>
<tr>
<td>Corrigan, N. B.</td>
<td>235</td>
</tr>
<tr>
<td>Cory, B.J.</td>
<td>147</td>
</tr>
<tr>
<td>Cory, H.T.</td>
<td>275</td>
</tr>
</tbody>
</table>

* The numbers in the right of the author name refer to the position number of the corresponding bibliographical item in section 2.
<table>
<thead>
<tr>
<th>Name</th>
<th>Page Numbers</th>
<th>Name</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Huynh, T.</td>
<td>142</td>
<td>Kriwaczek, F.</td>
<td>275</td>
</tr>
<tr>
<td>Imamichi, C.</td>
<td>143</td>
<td>Kuhn, A. D.</td>
<td>180</td>
</tr>
<tr>
<td>Inaishi, M.</td>
<td>303</td>
<td>Kuhn, A.D.</td>
<td>181, 182</td>
</tr>
<tr>
<td>Inamoto, A.</td>
<td>143</td>
<td>Kumar, P.</td>
<td>125</td>
</tr>
<tr>
<td>Iwanov, S.</td>
<td>4</td>
<td>Kumon, K.</td>
<td>164</td>
</tr>
<tr>
<td>Jaeger, D.</td>
<td>186</td>
<td>Kuznetsov, O. P.</td>
<td>314</td>
</tr>
<tr>
<td>Jayaraman, B.</td>
<td>144</td>
<td>Kvasova, T. K.</td>
<td>314</td>
</tr>
<tr>
<td>Jiang, J.</td>
<td>145, 146</td>
<td>LaVigna, A.</td>
<td>47, 125</td>
</tr>
<tr>
<td>Jobling, C.P.</td>
<td>14, 15</td>
<td>Laczay, I.</td>
<td>152</td>
</tr>
<tr>
<td>Johnson, R.B.I.</td>
<td>147</td>
<td>Lafue, G.</td>
<td>183</td>
</tr>
<tr>
<td>Jones, R.A.</td>
<td>296</td>
<td>Lassez, C.</td>
<td>142, 184, 185</td>
</tr>
<tr>
<td>Kaihara, S.</td>
<td>160</td>
<td>Laverty, J.</td>
<td>31</td>
</tr>
<tr>
<td>Kakuta A. T.</td>
<td>278</td>
<td>Le Dizes, J.-M.</td>
<td>186</td>
</tr>
<tr>
<td>Kapur, D.</td>
<td>223</td>
<td>Le Guillou, G.</td>
<td>22</td>
</tr>
<tr>
<td>Kar, A.</td>
<td>149, 150</td>
<td>Le Noan, Y.</td>
<td>17</td>
</tr>
<tr>
<td>Karasick, M.</td>
<td>139</td>
<td>Leclaire, S.</td>
<td>187</td>
</tr>
<tr>
<td>Kassiech, S.K.</td>
<td>38, 41, 42</td>
<td>Lecluyse, H.</td>
<td>221</td>
</tr>
<tr>
<td>Katayama, Y.</td>
<td>279</td>
<td>Lee, J.B.</td>
<td>188, 189</td>
</tr>
<tr>
<td>Kaufl, T.</td>
<td>151</td>
<td>Lee, R.M.</td>
<td>159, 178, 190, 191, 192, 193, 322</td>
</tr>
<tr>
<td>Kekes, E.</td>
<td>152</td>
<td>Lee, S.J.</td>
<td>202</td>
</tr>
<tr>
<td>Kemppainen, P.</td>
<td>9, 153</td>
<td>Leigh, W.</td>
<td>194</td>
</tr>
<tr>
<td>Kersten, G.</td>
<td>216</td>
<td>Lenz, N.</td>
<td>82</td>
</tr>
<tr>
<td>Ketonen, J.A.</td>
<td>154</td>
<td>Letz, R.</td>
<td>25</td>
</tr>
<tr>
<td>Kher, R.P.</td>
<td>105, 277</td>
<td>Li, D.</td>
<td>195</td>
</tr>
<tr>
<td>Kifer, M.</td>
<td>155</td>
<td>Li, G.J.</td>
<td>316</td>
</tr>
<tr>
<td>Kim, S.H.</td>
<td>156, 157</td>
<td>Li, Han-Lin</td>
<td>196, 197</td>
</tr>
<tr>
<td>Kimbrough, S.O.</td>
<td>158, 159</td>
<td>Liang, T.-P.</td>
<td>198, 199</td>
</tr>
<tr>
<td>Kimura, M.</td>
<td>114, 115, 160</td>
<td>Lightner, E.</td>
<td>31</td>
</tr>
<tr>
<td>King, D.</td>
<td>161, 162</td>
<td>Lindenmayer, K.</td>
<td>312</td>
</tr>
<tr>
<td>Kirkwood, N.</td>
<td>163</td>
<td>Lirov, Y.</td>
<td>200, 201</td>
</tr>
<tr>
<td>Kishimoto, M.</td>
<td>164</td>
<td>Liu, C.-C.</td>
<td>202</td>
</tr>
<tr>
<td>Kitamura, M.</td>
<td>165</td>
<td>Logrippo, L.</td>
<td>203</td>
</tr>
<tr>
<td>Kitson, B.</td>
<td>166</td>
<td>Lolonis, P.</td>
<td>204</td>
</tr>
<tr>
<td>Kleinosky, P.</td>
<td>99</td>
<td>Lord, S.P.</td>
<td>283</td>
</tr>
<tr>
<td>Kluzniak, F.</td>
<td>167</td>
<td>Loveland, D.W.</td>
<td>307</td>
</tr>
<tr>
<td>Kobayashi, K.</td>
<td>143</td>
<td>Lowrie, J.W.</td>
<td>205</td>
</tr>
<tr>
<td>Koch, P.</td>
<td>152</td>
<td>Lozano, J.</td>
<td>119</td>
</tr>
<tr>
<td>Koegel, J.</td>
<td>168</td>
<td>Lozinskii, E.L.</td>
<td>155</td>
</tr>
<tr>
<td>Kohn, W.</td>
<td>169</td>
<td>Lu Ping</td>
<td>206</td>
</tr>
<tr>
<td>Komorowski, H.J.</td>
<td>170</td>
<td>Lucas, R.</td>
<td>207</td>
</tr>
<tr>
<td>Konitzer, L.</td>
<td>171</td>
<td>Lucas, R. J.</td>
<td>127</td>
</tr>
<tr>
<td>Koperczak, Z.</td>
<td>216</td>
<td>Luck, K.</td>
<td>208</td>
</tr>
<tr>
<td>Koster, A.</td>
<td>132</td>
<td>Lunze, J.</td>
<td>209</td>
</tr>
<tr>
<td>Koras, T. V.</td>
<td>294</td>
<td>MacEnany, D.C.</td>
<td>47, 125</td>
</tr>
<tr>
<td>Kovac, J.</td>
<td>280</td>
<td>Maciejowski, J.M.</td>
<td>210</td>
</tr>
<tr>
<td>Kowalski, R.</td>
<td>172, 173, 174, 275</td>
<td>Madarasz, L.</td>
<td>280</td>
</tr>
<tr>
<td>Koyama, T.</td>
<td>160</td>
<td>Maeda, A.</td>
<td>114, 115</td>
</tr>
<tr>
<td>Kozhevnikov, G. K.</td>
<td>175</td>
<td>Maier, D.</td>
<td>211</td>
</tr>
<tr>
<td>Kozlik, G. W.</td>
<td>176</td>
<td>Majumder, S.</td>
<td>85</td>
</tr>
<tr>
<td>Kramar, H.</td>
<td>177</td>
<td>Makarevskii, A. Ya.</td>
<td>314</td>
</tr>
<tr>
<td>Krekels, B.</td>
<td>74</td>
<td>Malik, O. P.</td>
<td>48, 49</td>
</tr>
<tr>
<td>Krishnan, R.</td>
<td>178, 179</td>
<td>Malowany, A.</td>
<td>106, 107</td>
</tr>
<tr>
<td>Sackett, P.J.</td>
<td>96</td>
<td>Swain, M.A.P.</td>
<td>247</td>
</tr>
<tr>
<td>Sadri, F.</td>
<td>275</td>
<td>Swaine, M.</td>
<td>289</td>
</tr>
<tr>
<td>Salah, A.</td>
<td>259, 267, 268</td>
<td>Swinson, P.S.</td>
<td>290</td>
</tr>
<tr>
<td>Saleh, H.</td>
<td>269</td>
<td>Szenes, K.</td>
<td>291</td>
</tr>
<tr>
<td>Salmena, H.</td>
<td>244</td>
<td>Szpakowicz, S.</td>
<td>167, 216</td>
</tr>
<tr>
<td>Sapino, M.L.</td>
<td>77</td>
<td>Takahashi, M.</td>
<td>165</td>
</tr>
<tr>
<td>Sardar A.</td>
<td>269</td>
<td>Takegaki, M.</td>
<td>292</td>
</tr>
<tr>
<td>Schaffer, J.</td>
<td>270</td>
<td>Talavage, J.</td>
<td>266</td>
</tr>
<tr>
<td>Schmidt, P.</td>
<td>271, 272</td>
<td>Talluru, L.R.</td>
<td>293</td>
</tr>
<tr>
<td>Schmiedel, A.</td>
<td>208</td>
<td>Tam, G. W.</td>
<td>294</td>
</tr>
<tr>
<td>Schoppers, M.J.</td>
<td>273</td>
<td>Tamas, G.</td>
<td>80</td>
</tr>
<tr>
<td>Schultman, A.</td>
<td>274</td>
<td>Tanaka. H.</td>
<td>109</td>
</tr>
<tr>
<td>Schumann, J.</td>
<td>25</td>
<td>Tanunlione, E.</td>
<td>295</td>
</tr>
<tr>
<td>Scoggins, J. L.</td>
<td>300</td>
<td>Tejwani, Y.J.</td>
<td>296</td>
</tr>
<tr>
<td>Seeman, S. E.</td>
<td>235</td>
<td>Terwilliger, R.B.</td>
<td>297</td>
</tr>
<tr>
<td>Seidelman, L.</td>
<td>171</td>
<td>Thayse, A.</td>
<td>281</td>
</tr>
<tr>
<td>Seppanen, V.</td>
<td>9</td>
<td>Thelen, K.H.</td>
<td>257</td>
</tr>
<tr>
<td>Sergot, M.J.</td>
<td>275</td>
<td>Tholen, A.D.</td>
<td>298</td>
</tr>
<tr>
<td>Sgurev, V.</td>
<td>276</td>
<td>Thomas, M.C.</td>
<td>6, 7</td>
</tr>
<tr>
<td>Shapiro, E.</td>
<td>284</td>
<td>Thorp, D.S.</td>
<td>62</td>
</tr>
<tr>
<td>Sheffield, J.W.</td>
<td>105, 277</td>
<td>Tirupatiyumara, S.</td>
<td>299</td>
</tr>
<tr>
<td>Shibayama, S.</td>
<td>278</td>
<td>Tobias, L.</td>
<td>300</td>
</tr>
<tr>
<td>Shintani, T.</td>
<td>279</td>
<td>Toda, M.</td>
<td>279</td>
</tr>
<tr>
<td>Shipitina, L. B.</td>
<td>314</td>
<td>Togai, M.</td>
<td>50</td>
</tr>
<tr>
<td>Sidhu, D.P.</td>
<td>65</td>
<td>Torsun, I.S.</td>
<td>301</td>
</tr>
<tr>
<td>Simon, D.A.</td>
<td>14, 15</td>
<td>Town, G. G.</td>
<td>286</td>
</tr>
<tr>
<td>Simsk, D.</td>
<td>280</td>
<td>Townsend, P.</td>
<td>14, 15</td>
</tr>
<tr>
<td>Skinner, B. C.</td>
<td>176</td>
<td>Tran, D. T.</td>
<td>180</td>
</tr>
<tr>
<td>Skuce, D.R.</td>
<td>203</td>
<td>Trigueros, M.</td>
<td>119</td>
</tr>
<tr>
<td>Smith, B.T.</td>
<td>307</td>
<td>Tsai, S.</td>
<td>87</td>
</tr>
<tr>
<td>Snyers, D.</td>
<td>281</td>
<td>Tsuchya, F.</td>
<td>160</td>
</tr>
<tr>
<td>Sofsky, S.D.</td>
<td>282</td>
<td>Tsur, S.</td>
<td>302</td>
</tr>
<tr>
<td>Sonksen, P. H.</td>
<td>80</td>
<td>Tsunuta, S.</td>
<td>303</td>
</tr>
<tr>
<td>Souli, S.</td>
<td>97</td>
<td>Tu, C.-Y.</td>
<td>330</td>
</tr>
<tr>
<td>Sowa, J.</td>
<td>317</td>
<td>Turini, F.</td>
<td>122</td>
</tr>
<tr>
<td>Spinelli, G.</td>
<td>118</td>
<td>Twerwilliger, R.B.</td>
<td>304</td>
</tr>
<tr>
<td>Srivas, M.K.</td>
<td>223</td>
<td>Ullman, J.D.</td>
<td>305</td>
</tr>
<tr>
<td>Starka, S.A.</td>
<td>62</td>
<td>Vachtsevanos, G.</td>
<td>306</td>
</tr>
<tr>
<td>Stepney, S.</td>
<td>283</td>
<td>Valagussa, P.</td>
<td>118</td>
</tr>
<tr>
<td>Sterling, L.</td>
<td>284</td>
<td>Valtorta, M.G.</td>
<td>307</td>
</tr>
<tr>
<td>Stojeva, S.P.</td>
<td>285</td>
<td>Van Emde Boas, P.</td>
<td>308</td>
</tr>
<tr>
<td>Stohr, E.A.</td>
<td>189</td>
<td>Van Emde Boas-Lubson, G</td>
<td>308</td>
</tr>
<tr>
<td>Stojschev, L.</td>
<td>4</td>
<td>Van Gelder, A.</td>
<td>305</td>
</tr>
<tr>
<td>Stratton, R. C.</td>
<td>286</td>
<td>Van Grieuhsyen,V.J.</td>
<td>105</td>
</tr>
<tr>
<td>Subramanian, M.R.</td>
<td>287</td>
<td>Van Meir, D.</td>
<td>74</td>
</tr>
<tr>
<td>Sugisaki, A.M.</td>
<td>303</td>
<td>Van Zutphen, A. C.</td>
<td>309</td>
</tr>
<tr>
<td>Sugiyama, K.</td>
<td>165</td>
<td>Van der Horst, A.</td>
<td>310</td>
</tr>
<tr>
<td>Suh, N.P.</td>
<td>157</td>
<td>Vanbaalen, J.</td>
<td>205</td>
</tr>
<tr>
<td>Sulem, A.</td>
<td>47, 125</td>
<td>Vasireddy, R.L.</td>
<td>311</td>
</tr>
<tr>
<td>Summers, P.G.</td>
<td>241</td>
<td>Vellino, A.</td>
<td>64</td>
</tr>
<tr>
<td>Sun, H.-D.</td>
<td>330</td>
<td>Venkata, S.S.</td>
<td>202</td>
</tr>
<tr>
<td>Suwa, M.</td>
<td>288</td>
<td>Vick, S.</td>
<td>312</td>
</tr>
<tr>
<td>Suzuki, A.</td>
<td>288</td>
<td>Viviani, G.L.</td>
<td>313</td>
</tr>
<tr>
<td>Name</td>
<td>Page Numbers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Vokler, I. E.</td>
<td>314</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voon, Y.W.</td>
<td>236</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vroomen, L.</td>
<td>139, 315</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wah, B.W.</td>
<td>316</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walker, A.</td>
<td>317</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wang S.-P</td>
<td>318</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warren, D.</td>
<td>211</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washio, T.</td>
<td>165</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weeks, D.J.</td>
<td>163</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Welsch, M.</td>
<td>82</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wess, B.P., JR.</td>
<td>319</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Widmeyer, G.</td>
<td>178, 320, 321, 322</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wilbur, L.W.</td>
<td>201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Williams, C. D.</td>
<td>80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Williams, M.H.</td>
<td>323</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wilson, W.</td>
<td>317</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wing, J.M.</td>
<td>324</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wise, M.</td>
<td>325</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wong, M. L.</td>
<td>128</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wonham, W.M.</td>
<td>245</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Woods, E.</td>
<td>242</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wright, A. J.</td>
<td>71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wuwongse, V.</td>
<td>326, 327</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xia A.-B.</td>
<td>318</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xia S.-W.</td>
<td>328</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xie Z.-J.</td>
<td>328</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yamashiro, S.</td>
<td>230</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yan, I.</td>
<td>47, 125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yanaura, Y.</td>
<td>230</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yang, C.-C.</td>
<td>259, 329</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yao J.</td>
<td>328</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yap, R.</td>
<td>185</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yokota, H.</td>
<td>278</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yu, C.F.</td>
<td>316</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yuan, Z.-J.</td>
<td>330</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zeng, X.-Z.</td>
<td>330</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zhang Qian</td>
<td>206</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zhao Z.-X.</td>
<td>318</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zsombor-Murray, P.</td>
<td>315</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 4.2 TABLE OF DESCRIPTORS

The descriptors, as they appear in DIALOG, are classified in 18 subjects. This descriptor classification corresponds to the subject bibliographical knowledge base, where entry is a rule.

#### 4.2.1 CAD/CAM
- Architectural CAD, CAD, computer-aided design, computer graphics, computer-aided design, control system CAD, design, design engineering, engineering workstations, logic CAD, logic design--computer aids

#### 4.2.2 Manufacturing and Automated Production
- Process control--computer applications, assembling, assembly, computer aided manufacturing, flexible manufacturing systems, industrial control, industrial engineering, logistics, manufacturers, manufacturing computer control, manufacturing data processing, manufacturing systems, printed circuit manufacture, process computer control, process control, process control--computer applications, product introduction, product life cycle, production control, production management, productivity, products

#### 4.2.3 Robotics
- Robotics--computer applications, industrial robots, robots, robots, industrial--applications

#### 4.2.4 Naval, Aerospace, and Military Computing
- Aircraft, military--*fighter, *aircraft, military--*radar equipment, aerospace computer control, aerospace computing, aerospace simulation, aerospace test facilities, air traffic control, aircraft instrumentation, aircraft--control, artificial satellites, altitude control, command and control systems, military computing, navigation, radar--control systems, ship equipment--winches, ships, sonar, space telescope, space vehicle power plants, space vehicles

#### 4.2.5 Medical Computing
- Biomedical engineering--computer applications, *computer simulation--medical applications, cardiology, diagnostic radiography, drug products--pharmacodynamics, glucose, hospital information systems, medical administrative data processing, medical computing, medical diagnostic computing, patient treatment

#### 4.2.6 Mechanical Engineering
- Control systems--*synthesis, *dredges--*control systems, *machine components--*machining, *mechanical engineering--*design aids, *pressure vessels--welding, *structural analysis--*computer applications, *welding, electric arc--*computer applications, control engineering computing, control equipment, control system analysis, corrosion, corrosion--computer simulation, heat systems, machine shop practice, mechanical engineering computing, mechanical variables measurement--velocity, pumps, strength of materials, valves, welding, welds--defects, welds--mechanical properties

#### 4.2.7 Electrical and Electronics Engineering
- Circuit design, computer networks--protocols, computerised monitoring, computerised pattern recognition, computerised signal processing, control, electric variables, electrical engineering computing, integrated circuits, lighting, signal filtering and prediction, signal processing, speech recognition, ultrasonic transducers, VLSI, voltage control

#### 4.2.8 Chemical Engineering
- Oil tanks--corrosion, *oil tanks--*maintenance, *oil tanks--*structural design, *paper and pulp mills--*control systems, *plastics machinery--*control systems, cadmium, chemical engineering computing, chemical operations--solvent extraction, chemical structure, chemistry computing, kilns--control, nickel, papermaking machinery--failure, petroleum, crude--storage, plastics--manufacture, polymers--injection molding

#### 4.2.9 Civil Engineering and Transportation
- Coal mines and mining--computer applications, *highway systems--*design, *structural design--earthquake resistance, architecture, building, building codes--computer interfaces, civil engineering, civil engineering--computer applications, civil engineering computing, construction industry, geographic information systems, highway engineering--computer aided engineering, road traffic, soils, town and country planning, transportation, vehicles

#### 4.2.10 Management and Decision Making
- Decision theory and analysis, *management science, administrative data processing, corporate modelling, equipment selection (computers), industrial economics--planning, management, management science, pert, planning, public administration, retail data processing, scheduling

#### 4.2.11 Mathematics and Modeling
- Automata theory, boolean algebra, control systems, numerical, control systems--mathematical models, differential equations, directed graphs, discrete time systems, dynamic programming, equation analysis, fuzzy logic, fuzzy set theory, game theory, games, linear programming, linear systems, logic, mathematical logic,
nonlinear control systems, nonnumerical algorithms, operations research, optimal control, optimisation, optimization, petri nets, searching, transfer functions

4.2.12 data processing
*computer programming--*spreadsheet, *database systems--*management, *database systems--*relational, code generation, data, data acquisition, data base management systems, data bases, data management, data processing--critical path analysis, data reduction, database, database management systems, database systems, database systems--industrial applications, database systems--management, database theory, distributive data processing, industry, management, evaluation, file organization, files, fourth generation, hypermedia, hypertext, information retrieval, information systems, local area networks, management information systems, management--information systems, primitive data items, process or architecture, query languages, recovery, reduction, redundancy, relational, relational databases, relational dbms, security of data, sequential files, special purpose computers, specification languages, structured query language

4.2.13 educational computing and legislation
computer aided instruction, computer science education, education, educational administrative data processing, law administration, legislation, legislation, programming instruction, teaching

4.2.14 business and finance
accounts data processing, banking, business administration, commerce, commodity trading, cost benefit analysis, financial data processing, financial modeling, investment, marketing, marketing data processing, portfolio management, stock control data processing, stock market

4.2.15 problem solving
constraint theory, deductive reasoning, heuristic methods, heuristic programming, learning systems, problem solving, problem solving, problem-oriented languages, problem-solving, systems science and cybernetics--learning systems, theorem proving, theorem-proving

4.2.16 power systems
*combustion--*control, *electric power plants--*boilers, *electric power systems--*control systems, *nuclear fuels--*reprocessing, electric networks--reactive power, energy storage, fission reactor core control and monitoring, furnaces, industrial--combustion, nuclear power plants, nuclear engineering computing, nuclear reactors--control systems, power engineering computing, power overhead lines, power system analysis computing, power system computer control, power system planning, power utilisation

4.2.17 safety, testing, and diagnosis
accident prevention, accidents, alarm systems, automatic test equipment, automatic testing, computerized testing, diagnostic assessment, failure analysis, failure analysis--diagnostics, fault tolerant computing, maintenance--computer applications, safety, safety systems, testing, validation

4.2.18 simulation
*control systems--*computer simulation, control systems, adaptive-- computer simulation, digital simulation, simulation, simulation languages, systems simulation