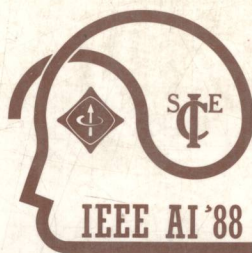


PROCEEDINGS *of the* INTERNATIONAL WORKSHOP *on* ARTIFICIAL INTELLIGENCE *for* INDUSTRIAL APPLICATIONS



May 25-27, 1988

Hitachi City, Japan



Co-sponsored by

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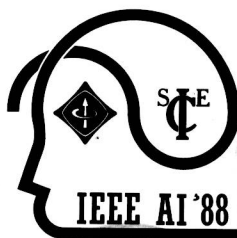


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International Association for Pattern Recognition (TC8)
IEEE Council on Robotics and Automation
IEEE/IES Chapter of the Tokyo Section

May 25-27, 1988
Hitachi Research Laboratory, Hitachi, Ltd.
Hitachi City, Japan

IEEE Catalog Number 88CH2529-6
Library of Congress Number 87-83247

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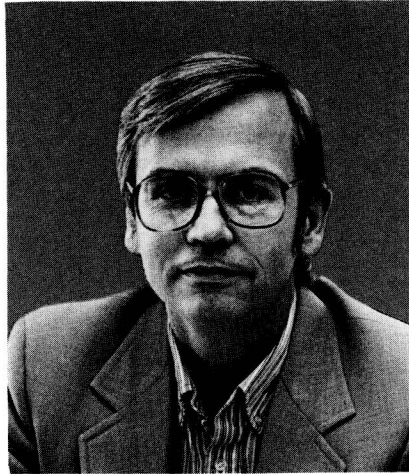
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1-35-28-303, Hongo, Bunkyo-ku, Tokyo 113, Japan
SICE Catalog Number: **IEEE/SICE AI '88**

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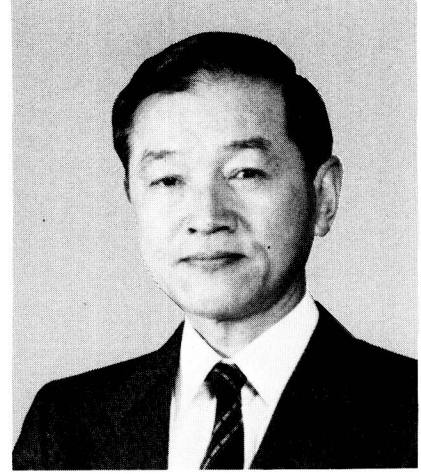
GENERAL CO-CHAIRMEN'S MESSAGE



Makoto Nagao



John McDermott



Yukio Kawamoto

It is a great pleasure and honor to welcome you to the International Workshop on Artificial Intelligence for Industrial Applications. This is the first IEEE Workshop on AI technologies held in Japan under the sponsorship of the IEEE Industrial Electronics Society and the Society of Instrument and Control Engineers of Japan.

The purposes of the Workshop are to bring together participants from various industrial fields around the world to discuss necessities for, and explore possibilities of, AI applications, and to exchange experiences and perspectives on the rapidly-evolving AI technologies with other specialists. Emphasis is placed on the expert systems for industrial uses and the concepts of desirable hardware and software architectures for AI applications.

The Technical Program Committee, consisting of both Japanese and overseas members, has reviewed the many submitted papers on the basis of quality and relevance to the Workshop, and selected a total of 91 papers from 16 countries. These selected papers will be presented at the Workshop's 24 sessions.

In addition to the keynote speech, invited speeches, and luncheon speech, the Workshop will feature a special panel session on "Strategies and Perspectives of AI Applications."

You are cordially invited to attend the banquet on Thursday evening. This will be a good opportunity for everyone to renew and strengthen old friendships and make new ones, while enjoying some traditional Japanese hospitality.

We are confident that you will find the Workshop interesting, informative, and a rewarding experience.

TECHNICAL PROGRAM CHAIRMAN'S MESSAGE



Koichi Furukawa

The proceedings contain the papers for the International Workshop on Artificial Intelligence for Industrial Applications held in Hitachi City, Japan on May 25-27, 1988.

One hundred and nine papers were submitted to the Workshop. We thank the many authors who responded to the call for papers. These papers were reviewed by the members of the Technical Program Committee. Due to the limited time of the Workshop, only 91 submitted papers and 3 invited papers could be presented.

We would also like to thank the Technical Program Committee members who supported the organization of the Workshop program. The success of the Workshop has been further assured by the administrative services of many people at Hitachi, Ltd. Special recognition must go to Dr. Kotaro Hirasawa and Mr. Masao Takato for their dedicated and invaluable assistance.

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SESSION REFERENCE

Opening Session & Plenary Session — Keynote Speech, Invited Speech
Session 1 — Diagnosis (I)
Session 2 — Power Systems (I)
Session 3 — Factory Automation
Session 4 — Diagnosis (II)
Session 5 — Power Plants
Session 6 — VLSI Design
Session 7 — Planning
Session 8 — AI Architectures
Session 9 — Image Processing
Session 10 — Invited Session
Session 11 — Power Systems (II)
Session 12 — Robotics (I)
Session 13 — Tools (I)
Session 14 — Panel Session
Session 15 — Robotics (II)
Session 16 — Supporting Systems
Session 17 — Process Control
Session 18 — Invited Session
Session 19 — Transportation
Session 20 — AI Machines
Session 21 — Controllers
Session 22 — Power Systems (III)
Session 23 — Modeling
Session 24 — Tools (II)

TABLE OF CONTENTS

Opening Session & Plenary Session

Keynote Speech

- Progress of Artificial Intelligence in Japan** 3
M. Nagao (Kyoto University, Japan)

Invited Speech

- Using Problem-solving Methods to Impose Structure on Knowledge** 7
J. McDermott (Carnegie-Mellon University, U.S.A.)

Session 1-Diagnosis (I)

Co-Chairmen: A. C. M. Chen (General Electric Co., U.S.A.)

M. Ishizuka (The University of Tokyo, Japan)

- 1.1 **A Connectionist Expert System Approach to Fault Diagnosis in the Presence of Noise and Redundancy**15
S. I. Gallant (Northeastern University, U.S.A.)
- 1.2 **Designing an Inference Engine : From Ontology to Control**20
M. Freiling (Tektronix Laboratories, U.S.A.)
- 1.3 **Efficient Method for Multi-Dimensional Fuzzy Reasoning and Its Application to Fault Diagnosis** 27
Y. Hayashi, M. Nakai (Ibaraki University, Japan)
- 1.4 **Higher-Level Causal Reasoning for Diagnosis**.....33
P. Schaefer (Martin Marietta Astronautics Group, U.S.A.)
- 1.5 **Qualitative, Causal Reasoning about Device Behavior**39
Y. Iwasaki (Carnegie-Mellon University, U.S.A.)

Session 2-Power Systems (I)

Co-Chairmen: J. J. Keronen (Technical Research Centre of Finland, Finland)

K. Uenishi (The Kansai Electric Power Co., Inc. Japan)

- 2.1 **Development of an AI Supporting System for Knowledge Acquisition and Refinement**47
N. Asai, K. Onishi, S. Mori (The Kansai Electric Power Co., Inc., Japan),
Y. Otsuka, S. Makino (Toyo Information System Co., Ltd., Japan)
- 2.2 **Knowledge-Based Fault Location System for Electric Power Transmission Lines with OPGW**52
K. Okada, K. Urasawa (The Tokyo Electric Power Co., Inc., Japan)
K. Kanemaru, H. Kanoh (Hitachi Cable, Ltd., Japan)
- 2.3 **Automated Reasoning : A New Concept in Power System Security Analysis**58
S. S. Shah, S. M. Shahidehpour (Illinois Institute of Technology, U.S.A.)
- 2.4 **Substation Operation Support System which Allows Event-Driven Processing**64
M. Oki, T. Nishimori (The Kansai Electric Power Co., Inc., Japan),
M. Hiyoshi, Y. Takaoka (Toko Seiki Co., Ltd., Japan)
- 2.5 **Development of an Expert System as Power System Operational Aid**70
C. Liu, M. Damborg (University of Washington, U.S.A.),
M. Lauby, R. Iveson (Electric Power Research Institute, U.S.A.)

Session 3-Factory Automation

Chairman: K. Ishihara (Hitachi, Ltd., Japan)

- 3.1 An Application of AI Method to Automatic Generation of NC Tapes79
Y. Okawa (Osaka University, Japan), M. Miyazaki (Gifu University, Japan)
- 3.2 Artificial Intelligence Based Programmable Controller Software Designing85
Y. Ono, I. Tanimoto, T. Matsudaira, Y. Takeuchi (Toshiba Corp., Japan)
- 3.3 Moby : A Semi-Custom Make or Buy Decision Advisor91
B. Wu, R. Stillman (IBM Manufacturing Research, U.S.A.)
- 3.4 Resource Planning Support System94
K. Ohmori (IBM Japan, Ltd., Japan)
- 3.5 A Fault Diagnosis System Based on Parallel Interaction100
K. Nakamura (Japan Tobacco Inc., Japan), S. Kobayashi (Tokyo Institute of Technology, Japan)

Session 4-Diagnosis (II)

Co-Chairmen: S. Gallant (Northeastern University, U.S.A.)

H. Harashima (The University of Tokyo, Japan)

- 4.1 Empirical and Functional Knowledge in an Expert System for Fault Diagnosis109
G. Armano, M. Solimano (University of Genoa, Italy)
- 4.2 The Application of Differential Logic to Test Vector Generation for Diagnosis115
G. Porter, III (General Electric Co., U.S.A.)
- 4.3 Circuit Pack Troubleshooting via Semantic Control I : Goal Selection118
Y. Lirov, O. Yue (AT & T Bell Laboratories, U.S.A.)
- 4.4 An Expert System Architecture for Switching System Diagnosis123
S. Wada, Y. Koseki, T. Nishida (NEC Corp., Japan)
- 4.5 Dam Gate Diagnosing Advisor—An Expert System for Steel Structures129
T. Terano, Y. Shinohara, S. Matsui, H. Nakamura (Central Research Institute of Electric Power Industry, Japan)
- 4.6 Jet-X : Jet Engine Troubleshooting Expert System135
R. Shah, L. LaPierre (General Electric Co., U.S.A.)

Session 5-Power Plants

Co-Chairmen: B. Hajek (The Ohio State University, U.S.A.)

Y. Anbe (Toshiba Corp., Japan)

- 5.1 Knowledge-Based System for Core Operation Management of Boiling Water Reactors143
T. Fukuzaki, Y. Wada, Y. Kobayashi, T. Shimoshige (Hitachi, Ltd., Japan),
H. Matsuura (Hitachi Engineering Co., Ltd., Japan)
- 5.2 An Automatic Nuclear Core Configuration Generator149
P. Dauboin, J. Lucas (Électricité de France, France)
- 5.3 A Generic Task Approach to a Real Time Nuclear Power Plant Fault Diagnosis and
Advisory System154
B. Hajek, D. Miller, R. Bhatnagar, J. Stasenko, W. Punch III (The Ohio State University, U.S.A.),
N. Yamada (Hitachi, Ltd., Japan)
- 5.4 Maintenance Work Scheduling Aid for Nuclear Power Plants161
T. Kasahara, K. Kato, T. Ito, T. Sato, K. Asami (Hitachi, Ltd., Japan)

5.5	An Expert System for Startup Scheduling and Operation Support in Fossil Power Plants	167
	K. Aoyagi, K. Tanemura (The Tokyo Electric Power Co., Inc., Japan), H. Matsumoto, Y. Eki, S. Nigawara (Hitachi, Ltd., Japan)	
5.6	Integrating Empirical and Ontological Knowledge in an Expert System for Diagnosis of a Steam Condenser	173
	A. Stefanini, M. Gallanti (CISE SpA, Italy), A. Cavanna (Ansaldo SpA, Italy), G. Guida (Universita' di Udine, Italy)	

Session 6-VLSI Design

Co-Chairmen: H. Bosma (Philips, The Netherlands)

H. Mori (NEC Corp., Japan)

6.1	An A* Algorithm to Yield an Optimal Solution for the Channel Routing Problem in VLSI	181
	J. Wang, R. Lee (National Tsing Hua University, China)	
6.2	Chip-Architecture Planning Based on Expert Knowledge	188
	K. Temme, R. Brück (Universität Dortmund, F.R. Germany)	
6.3	Flair a Knowledge-Based Approach to Integrated Circuit Floorplanning	194
	R. Brück, K. Temme (Universität Dortmund, F.R. Germany)	
6.4	Knowledge Based Techniques on a Development System of Application Specific Integrated Circuits	200
	K. Shirai, T. Takezawa, S. Ueno (Waseda University, Japan)	
6.5	VLSI Logic Design with Logic Programming and Knowledge Base Technology	206
	N. Hamada, K. Bekki, T. Yokota (Hitachi, Ltd., Japan)	
6.6	Symbolic Simulation : A New Approach to Automated Electronic Circuit Design	211
	A. Konczykowska, M. Bon (Centre National d'Etudes des Télécommunications, France), J. Mulawka (Warsaw University of Technology, Poland)	

Session 7-Planning

Chairman: G. Hahne (Siemens AG, F.R. Germany)

7.1	An Expert System to Assist Production Planning	219
	N. Kanai, S. Yokoi, K. Fukunaga, Y. Tozawa (IBM Japan Ltd., Japan)	
7.2	An Expert System in Process Design—Analysis of Process Safety and Reliability	225
	P. Heino, J. Suokas, I. Karvonen (Technical Research Centre of Finland, Finland)	
7.3	Knowledge-Based Performance Evaluation of Computer Architectures	232
	B. Scherf (Siemens AG, F.R. Germany)	

Session 8-AI Architectures

Chairman: H. Hayashi (Fujitsu Laboratories, Ltd., Japan)

8.1	On the Combination of Numeric and Symbolic Computation for Implementation of KBS for Process Control	239
	E. Woods, O. Øgård (The Foundation for Scientific & Industrial Research at the Norwegian Institute of Technology, Norway)	
8.2	Multi Paradigm Expert System Architecture Based upon the Inverse Design Concept	245
	T. Hirano, T. Yamada (Daikin Industries, Ltd., Japan)	
8.3	A New Expert System Architecture for Decision Support	251
	E. Tropper, S. Béland (Université du Québec à Montréal, Canada)	
8.4	An Integrated AI Environment for Industrial Expert Systems	258
	S. Kawakita, M. Saito, Y. Hoshino, Y. Bandai, Y. Kobayashi (Toshiba Corp., Japan)	

Session 9-Image Processing

Chairman: **T. Matsuyama** (Tohoku University, Japan)

- 9.1 Knowledge Acquisition in Image Processing Expert System "EXPLAIN"267**
T. Tanaka, N. Sueda (Toshiba Corp., Japan)
- 9.2 Acute Toxicant Warning System Based on a Fish Movement Analysis by Use of AI Concept273**
S. Nogita, K. Baba, H. Yahagi, S. Watanabe, S. Mori (Hitachi, Ltd., Japan)
- 9.3 Intelligent Pattern Recognition in 3D Vision for Robot Control277**
T. Fukuda (Science University of Tokyo, Japan)
- 9.4 Computer-Based Filamentous Microorganism Identification Support System283**
M. Hiraoka, K. Tsumura, I. Enbutsu, (Kyoto University, Japan),
Y. Yamamoto (Osaka Public Health Research Institute, Japan)

Session 10-Invited Session

Chairman: **K. Furukawa** (ICOT, Japan)

- On the Thresholds of Knowledge291**
D. Lenat (Microelectronics and Computer Technology Corp., U.S.A.),
E. Feigenbaum (Stanford University, U.S.A.)

Session 11-Power Systems (II)

Co-Chairmen: **C.C. Liu** (University of Washington, U.S.A.)

H. Tanaka (The Tokyo Electric Power Co., Inc., Japan)

- 11.1 Power System Voltage Control by Distributed Expert Systems303**
S. Matsuda, H. Ogi (The Tokyo Electric Power Co., Inc., Japan),
K. Nishimura, Y. Okataku, S. Tamura (Toshiba Corp., Japan)
- 11.2 An Object-Oriented Representation of a Power System and the Use of It in Real-Time Operations309**
J. Keronen (Technical Research Centre of Finland, Finland)
- 11.3 A Knowledge-Based Guidance System for Trunk Power Transmission System Restoration315**
Y. Kojima, S. Warashina (The Tokyo Electric Power Co., Inc., Japan),
S. Nakamura, K. Matsumoto (Mitsubishi Electric Corp., Japan)
- 11.4 Application of Knowledge Engineering Techniques to Electric Power System Restoration320**
Y. Kojima, S. Warashina (The Tokyo Electric Power Co., Inc., Japan),
M. Kato, H. Watanabe (Toshiba Corp., Japan)
- 11.5 An Expert System for Generating Switching Sequences at Substations326**
T. Abe, H. Goto (The Tokyo Electric Power Co., Inc., Japan),
T. Mizutori, N. Matsuki (Meidensha Corp., Japan)

Session 12-Robotics (I)

Co-Chairmen: **C. Orgill** (University College of Wales, U.K.)

H. Miura (The University of Tokyo, Japan)

- 12.1 A Study on a Comparison between the ERES/WCS and the ERES/CCS in the Advanced Teleoperator System335**
S. Lee (Korea University, Korea), **M. Nagamachi, K. Ito** (Hiroshima University, Japan)
- 12.2 High-Level Robot Task Specification341**
N. Abe, S. Sako, S. Tsuji (Osaka University, Japan)

12.3	Intelligent Planning in Controlling Electronics Assembly	347
	T. Heikkilä, S. Pieskä, P. Kärkkäinen (Technical Research Centre of Finland, Finland)	
12.4	A Fast Path-Planning Algorithm by Synchronizing Modification and Search of Its Path Graph ...	351
	H. Noborio (Osaka Electro-Communication University, Japan), T. Naniwa, S. Arimoto (Osaka University, Japan)	
12.5	Automatic Robot Planning by Marked Petri Net	358
	W. Zhang (Shanghai Jiao Tong University, China)	

Session 13-Tools (I)

Co-Chairmen: **D. Lenat** (Microelectronics and Computer Technology Corp., U.S.A.)
K. Fukunaga (IBM Japan, Ltd., Japan)

13.1	Tools for Adding Knowledge to the CYC LSKB	365
	M. Shepherd (Microelectronics and Computer Technology Corp., U.S.A.)	
13.2	EUREKA-II : A Programming Tool for Knowledge-Based Real Time Control Systems	370
	S. Tano, S. Masui, T. Nakano, K. Mori (Hitachi, Ltd., Japan)	
13.3	Expert System Building Tool for Process Control : MARKS-II	376
	K. Takenaka, T. Yokoi (Sumitomo Metal Industries, Ltd., Japan)	
13.4	A New Type of Fuzzy Controller Based upon a Fuzzy Expert System Shell FLOPS	382
	H. Ying, D. Tucker (Kemp-Carrway Heart Institute, U.S.A.), W. Siler (Mote Marine Laboratory, U.S.A.)	
13.5	A Compiler for Real-Time Knowledge-Based Systems	387
	M. Ghallab, H. Philippe (LAAS-CNRS, France)	

Session 14-Panel Session

Strategies and Perspectives of AI Applications.....397

Panelists	H. Bosma	(Philips, The Netherlands)
	K. Furukawa	(ICOT, Japan)
	M. Ghallab	(LAAS-CNRS, France)
	S. Goto	(NEC Corp., Japan)
	K. G. Hahne	(Siemens AG, F.R. Germany)
	J. McDermott	(Carnegie-Mellon University, U.S.A.)
(Moderator)	M. Ejiri	(Hitachi, Ltd., Japan)

Session 15-Robotics (II)

Chairman: **M. Ghallab** (LAAS-CNRS, France)

15.1	An On-Line Mobility Model for Robotic Assemblages Using Orthogonal Physical Constraints	401
	C. Orgill (University College of Wales, U.K.)	
15.2	Self-Organizing Model of Learning and Its Application to Eyesight System of Robot	411
	H. Suzuki, S. Arimoto (Osaka University, Japan)	
15.3	Knowledge Representation for Image Based Robot Operation	417
	T. Hamada, K. Kamejima, I. Takeuchi (Hitachi, Ltd., Japan)	
15.4	Two Dimensional Object Modelling for Robotic Vision	423
	J. Orrock, R. Jacobson, J. Krumm (Honeywell Inc., U.S.A.), H. Hashimukai (Yamatake-Honeywell Co., Ltd., Japan)	

Session 16-Supporting Systems

Chairman: **T. Matsumoto** (CSK Research Institute, Japan)

- 16.1 A Knowledge Based Scheme for Computer Aided Mechanical Engineering Design**435
A. Dessouki, A. Wahab (National Research Center, Egypt), **A. Nazif** (Cairo University, Egypt)
- 16.2 Knowledge-Based Multi-Media Database Management System and Its Application to Map Information Systems**436
S. Shimada, T. Miyatake, H. Matsushima, M. Ejiri (Hitachi, Ltd., Japan)
- 16.3 A Computer System Configuration Design Expert System : IDEA/C**442
Y. Iizuka, H. Tsuji (Hitachi, Ltd., Japan)
- 16.4 Successfully Developing and Deploying Expert Systems in the Financial Services Industry**.....448
K. Morse (KPM Enterprises, U.S.A.), **M. Beckham** (USA Research, Inc., U.S.A.)

Session 17-Process Control

Chairman: **T. Saito** (Nippon Steel Corp., Japan)

- 17.1 A Knowledge-Based Water Purification Control System**455
Y. Miyajima, T. Katou, R. Inaba, S. Kobayashi, H. Ezure (Toshiba Corp., Japan)
- 17.2 Fault Diagnosis of Chemical Processes Utilizing Signed Directed Graphs—Improvement by Using Temporal Information**461
J. Shiozaki (Yamatake-Honeywell Co., Ltd., Japan),
B. Shibata, H. Matsuyama (Kyushu University, Japan),
E. Oshima (Tokyo Institute of Technology, Japan)
- 17.3 Scheplan—A Scheduling Expert for Steel-Making Process**467
M. Numao, S. Morishita (IBM Japan, Ltd., Japan)
- 17.4 An Embedded Expert System for Performance Monitoring of Process Stations in a Distributed Process Automation System**473
K. Kaarela, K. Autio (Technical Research Centre of Finland, Finland),
R. Korhonen, H. Huotari (Valmet Process Automation, Finland)

Session 18-Invited Session

Chairman: **K. Furukawa** (ICOT, Japan)

- From Classification Solving Problem to Constraint Solving Paradigm**481
F. Mizoguchi (Science University of Tokyo, Japan)

Session 19-Transportation

Chairman: **T. Hori** (Mie University, Japan)

- 19.1 Automatic Train Operation System Based on Predictive Fuzzy Control**485
H. Oshima, S. Yasunobu, S. Sekino (Hitachi, Ltd., Japan)
- 19.2 A Knowledge-Based Interactive Train Scheduling System—Aiming at Large-Scale Complex Planning Expert System**490
S. Tsuruta, K. Matsumoto (Hitachi, Ltd., Japan)
- 19.3 Development of a Knowledge-Based Dispatch Management System for a Municipal Transit Centre**496
T. Gomi, A. Griffith, U. Oppacher (Applied AI Systems, Inc., Canada),
R. Stanley (Cognos Inc., Canada), **P. Tuan** (SRI International, U.S.A.)

Session 20-AI Machines

Chairman: **H. Tanaka** (The University of Tokyo, Japan)

- 20.1 Performance Evaluation of Integrated Prolog Processor IPP**505
S. Abe, K. Kiriya, K. Kurosawa, T. Bando (Hitachi, Ltd., Japan)
- 20.2 Analysis of Parallel Inference Machines to Achieve Dynamic Load Balancing**.....511
M. Sugie, M. Yoneyama (Hitachi, Ltd., Japan), **A. Goto** (ICOT, Japan)
- 20.3 A Routing Model for the NCR GAPP**517
J. Signorini (Université Paris 8-Vincennes, France)

Session 21-Controllers

Chairman: **S. Arimoto** (Osaka University, Japan)

- 21.1 An Expert PID Controller**525
R. Devanathan, C. Keong, T. Kin, Y. Soon (Nanyang Technological Institute, Singapore)
- 21.2 Expert Supervision and Auto-Tuning of Digital Control Systems**531
A. Garcia-Cerezo, A. Ollero (Universidad de Santiago de Compostela, Spain),
J. Aracil (Universidad de Sevilla, Spain)
- 21.3 Application of the Klopian Neuron Model to Function Minimization**537
D. Politis (Environmental Research Institute of Michigan, U.S.A.)

Session 22-Power Systems(III)

Chairman: **S. Takeda** (Mitsubishi Electric Corp., Japan)

- 22.1 Development of the Expert System for Operation Planning of Power System**545
S. Osaka (The Tokyo Electric Power Co., Inc., Japan),
Y. Kono, R. Fujiwara, A. Yamanishi (Mitsubishi Electric Corp., Japan)
- 22.2 An Expert System for Power Generation Scheduling in Multi-Chain Hydro Power Stations**551
T. Terano, H. Isoda (Central Research Institute of Electric Power Industry, Japan)
- 22.3 An Expert System for Power Generation Scheduling**557
S. Osaka(The Tokyo Electric Power Co., Inc., Japan), **M. Amano, J. Kawakami** (Hitachi, Ltd., Japan)

Session 23-Modeling

Chairman: **J. Tsujii** (Kyoto University, Japan)

- 23.1 The Use of AI to Secure Communication in Distributed Systems for Industrial Applications**565
P. Rangan, R. Ashany (University of California-Berkeley, U.S.A.)
- 23.2 Metrics in the Knowledge Bases : A Case Study (CONTEXT ES-TOOL)**570
S. Petkov (Institute for Microsystems, Bulgaria)
- 23.3 The Structured Description of the Knowledge in the Situation Recognition**576
H. Shimakawa, S. Ikebata (Mitsubishi Electric Corp., Japan)

Session 24-Tools(II)

Chairman: **B. Wu** (IBM Manufacturing Research, U.S.A.)

- 24.1 Expert Shell for Power Systems Diagnosis**.....585
S. Moriguchi (Kyushu Electric Power Co., Inc., Japan), **T. Tanaka, K. Ishikawa** (Toshiba Corp., Japan)
- 24.2 Concurrent Object-Oriented Diagnostic System**591
N. Nishiuchi (Mitsubishi Electric Corp., Japan)
- 24.3 Toward the Expert System for Scheduling Problems**597
K. Satoh, F. Honda, H. Hara, H. Matsumoto (Fujitsu Laboratories, Ltd., Japan)

24.4	Basic Architectural Features of Configuration Expert Systems for Automation Engineering	603
	W. Baginsky, H. Endres, G. Geissing, L. Philipp (Siemens AG, F.R.Germany)	
24.5	A Knowledge-Based Configurer for Embedded Computer Systems Software	
	: Real Life Experience	608
	K. Hakkarainen, A. Karjalainen (Technical Research Centre of Finland, Finland),	
	P. Kemppainen (KONE Corp., Finland)	



Opening Session & Plenary Session

Keynote Speech

Invited Speech

