9. IEA/AIE 1996: Fukuoka, Japan


http://dblp.uni-trier.de/rec/bibtex/conf/ieaaie/1996.xml
http://dblp.uni-trier.de/db/conf/ieaaie/ieaaie1996.html

9. IEA/AIE 1996: Fukuoka, Japan

Invited Papers

- Naomasa Nakajima: Micromachines as Unconventional Artifacts. 3-8

- Setsuo Ohsuga: Multi-Strata Modeling to Automate Problem Solving Including Human Activity. 9-24

- Drew V. McDermott: The Current State of AI Planning Research. 25-34

- Takushi Tanaka: DCSG: A Logic Grammar for Knowledge Representation of Hierarchically Organized Objects. 35-42

- Takeshi Yamakawa, Tsutomu Miki, Masayoshi Shimono: Pattern Separation by Chaotic Networks Employing Chaotic Itinerancy. 43-46

Automated Reasoning

- Hiroshi G. Okuno, Osamu Shimokuni, Hidehiko Tanaka: Design and Implementation of Multiple-Context Truth Maintenance System with Binary Decision Diagram. 47-56
Shohei Kato, Chiemi Kamakura, Hirohisa Seki, Hidenori Itoh: PARCAR: Parallel Cost-Based Abductive Reasoning System. 57-64

CAD/CAM

Makoto Hirahara, Natsuki Oka, Kunio Yoshida: Automatic Placement Using Static and Dynamic Groupings. 65-70

Masaaki Hashimoto, Toyohiko Hirota, Isao Nagasawa, Keiichi Katamine, Yoshiaki Tegoshi: A Domain-Specific Conceptual Model in Building Design. 71-76

Masanobu Umeda, Isao Nagasawa, Tatsuji Higuchi: The Elements of Programming Style in Design Calculations. 77-88

Case-Based Reasoning

Shigenori Tanaka, Ichizou Mikami, Hidenori Maeda, Atsushi Kobayashi: Knowledge-Based Expert System Combining Case-Based Reasoning and Rule-Based Reasoning to Select Repair and Retrofitting Methods for Fatigue Damage on Steel Bridge. 89-94

S. S. Lim, B. H. Lee, E. N. Lim, K. A. Ngoi: Multiple Domain Feature Mapping Utilizing Case-based Reasoning and Blackboard Technology. 95-102

Yoshio Nakatani, Makoto Tsukiyama, Tomo-omi Wake: Plant Fault Diagnosis by Integrating Fault Cases and Rules. 103-110

Database
Shyue-Liang Wang: Characteristics of Query Responses on Fuzzy Object-Oriented Databases. 111-116

Harumi Maeda, Kazuto Koujitan, Toyoaki Nishida: A Knowledge Media Approach Using Associative Representation for Constructing Information Bases. 117-126

Kouzou Ohara, Noboru Babauchi, Tadahiro Kitahashi: A Query Procedure for Allowing Exceptions in Advanced Logical Database. 127-134

Decision Support

Zongxue Xu, Akira Kawamura, Kenji Jinno, Kazumasa Ito: Decision Support System for Water-Supply Risk Management. 135-140

Ronggui Ding, Wenxiu Han: Suggestions on Developing "Creative Decision Stimulation Systems (CDSS)". 141-148

Diagnosis

Koichi Yamada, Mitsuhiro Honda: A Method of Diagnosis Using Possibility Theory. 149-154

Markus Stumptner, Franz Wotawa: Model-Based Program Debugging and Repair. 155-160
Philip A. Collier, M. G. Casey: An Object-Oriented Method for Control Loop Diagnosis and Monitoring. 161-166

Yi Lu: A Self-Learning Fuzzy System for Automotive Fault Diagnosis. 167-174

**Distributed AI**

Lifeng He, Hirohisa Seki, Hidenori Itoh: An Automated Reasoning System for Multi-Agent Cooperation. 175-180

Motoyuki Takaai, Hideaki Takeda, Toyoaki Nishida: GUARDNET: A Distributed and Concurrent Programming Environment for Multi-Agent Systems. 181-188

**Fuzzy Logic and Control**

Mehdi R. Zargham, Leishi Hu: Assigning Weights to Rules of an Expert System Based on Fuzzy Logic. 189-194


Tzung-Pei Hong, Tzung-Nan Chuang: Fuzzy Johnson’s Algorithm for Two-machine Flow Shop. 201-206

Hiroyuki Tanaka, Yuji Naka: Prediction of Properties of Mixture by Integration of Pattern Recognition and Logic Procedure by Using Fuzzy Clustering. 207-212
Sameh H. Ghwanmeh, K. O. Jones, D. Williams: Self-Learning Fuzzy Logic Control of Non-Linear Processes. 213-222

Ralph W. L. Ip, Felix T. S. Chan: Using Fuzzy Logic in Feedrate Control for Free-Form Surface Machining. 223-234

Genetic Algorithm


Mehrdad Salami, Greg Cain: Genetic Algorithm Processor for the Frequency Assignment Problem. 241-246


Intelligent Tutoring

Roger Nkambou, Marie-Claude Frasson, Claude Frasson: Generating Courses in an Intelligent Tutoring System. 261-266
Knowledge Acquisition

- Yoshinori Satoh, Akira Maeda: A Data Mining Technique for Time Series Data. 275-282


- Michiaki Iwazume, Hideaki Takeda, Toyoaki Nishida: Ontology-Based Information Gathering and Categorization from the Internet. 305-316

Knowledge-based Systems


- Rym Nouira, Jean-Marc Fouet: A Knowledge Based Tool for Checking Large Knowledge Bases. 327-332
Kunhuang Huarng, Ming-Cheng Chen: OKCFTR: Translators for Knowledge Reuse. 333-338

Yong H. Lee, Suk I. Yoo: Integration of Forward and Backward Inferences Using Extended Rete Networks. 339-344

Heribert Schimpe, Martin Staudt: VAREX: An Environment for Validating and Refining Rule Bases. 345-356

Knowledge Representation

Nadim Obeid: A Formalism for Defeasible Inheritance. 357-362

Yasuo Namioka, Toshikazu Tanaka: Knowledge Compilation for Interactive Design of Sequence Control Programs. 363-368

José C. Damski, John S. Gero: Shape Reasoning in CAD Systems. 369-376

Logic Programming

Hiroshi Sakai, Akimichi Okuma: Applications of Logic Programs with Functor Set to Automated Problem Solving Under Uncertainty. 377-382
Neng-Fa Zhou: Channel Routing with Constraint Logic Programming and Delay. 383-388

Keiko Shimazu, Koichi Furukawa: Design of Database Interface to ILP for Building Knowledge Base. 389-394

Duong Tuan Anh, Kanchana Kanchanasut: An Incremental Solver for Constraint Hierarchies over Real Intervals. 395-402

Machine Learning

Paul Davidsson: Coin Classification Using a Novel Technique for Learning Characteristic Decision Trees by Controlling the Degree of Generalization. 403-412

TuBao Ho, TrongDung Nguyen: Evaluation of Attribute Selection Measures in Decision Tree Induction. 413-418

Huan Liu, Rudy Setiono: Feature Selection and Classification - A Probabilistic Wrapper Approach. 419-424

Chie Morita, Hiroshi Tsukimoto: Knowledge Discovery from Numerical Data. 425-430

Megumi Ishii, Hussein Almuallim, Shigeo Kaneda: A Knowledge Revision Learner Using Artificially Generated Examples. 431-438
Bozena Stewart: Learning Probabilistic Networks from Data. 439-448

Gou Masuda, Norihiro Sakamoto, Kazuo Ushijima: A Practical Object-Oriented Concept Learning System in Clinical Medicine. 449-454

Atsuhiro Takasu, Tatsuya Akutsu, Moonis Ali: Sampling Effectiveness in Discovering Functional Relationships in Databases. 455-460

Bogdan Filipic, Iztok Zun, Matjaz Perpar: Signal Interpretation in Two-Phase Fluid Dynamics Through Machine Learning and Evolutionary Computing. 461-468

Manufacturing

László Monostori, Csaba Egresits, Botond Kádár: Hybrid AI Solutions and Their Application in Manufacturing. 469-478

S. Cavalieri: Performance Optimization of Flexible Manufacturing Systems using Artificial Neural Networks. 479-486


Monitoring
Kai H. Chang, Mark Rogers, Richard McElvee: An Expert System for The Monitoring and Simulation of The AXAF. 503-510

Wolfram Burgard, Armin B. Cremers, Dieter Fox, Martin Heidelbach, Angelica Maria Kappel, Stefan Lüttringhaus-Kappel: Knowledge-Enhanced CO-monitoring in Coal-Mines. 511-520

Kevin Kennedy, Michael Mckinney, Yi Lu: Medi-View - An Intelligent ICU Monitoring System. 521-530

**Neural Network**

Daniel Nikovski, Mehdi Zargham: Comparison of Two Learning Networks for Time Series Prediction. 531-536

Tim Hendtlass: An Evolutionary Algorithm for The Generation of Unsupervised Self Organizing Neural Nets. 537-542

Chung-Yao Wen: Exploiting Don't-care Information in Neural Network Learning. 543-546

Sook Lim, Sung Chun Kim: Extended Tree based Regression Neural Networks for Multifeature Split. 547-552

Eric Fimbell: Mixing Stochastic Exploration and Propagation for Pruning Neural Networks. 553-558
Yoshihiko Hamamoto, Toshinori Hase, Yoshihiro Mitani, Shingo Tomita: A Note on the Generalization Error in Neural Networks. 559-562

Kaori Yoshida, Masahiro Nagamatsu, Torao Yanaru: A Proposal of Emotional Processing Model. 563-568

B. T. Tien, Gerrit van Straten: Recursive Prediction Error Algorithm for the NUFZY System to Identify Nonlinear Systems. 569-574

Yoshiaki Tsukamoto, Akira Namatame: Reflective Learning of Neural Networks. 575-584

**Neural Network Applications**

Nicolas Durand, Jean-Marc Alliot: Collision Avoidance Using Neural Networks Learned by Genetic Algorithms. 585-592

Phil D. Picton, Adrian A. Hopgood, Nicholas St. J. Braithwaite, Heather J. Phillips: Identifying Chemical Species in a Plasma Using a Neural Network. 593-598


Jan Wilk, Eva Wilk, Bodo Morgenstern: A New Second-Order Adaptation Rule and Its Application to Electrical Model Synthesis. 605-610
Alfred Taudes, Martin Natter, Michael Trcka: Real Option Valuation with Neural Networks. 611-620

Natural Language

An Qin, Wing Shing Wong: Automatic Segmentation and Tagging of Hanzi Text Using a Hybrid Algorithm. 621-626

Hisao Mase, Hiroshi Tsuji, Hiroshi Kinukawa: Computer-aided News Article Summarization. 627-632


Toshiyuki Matsuo, Toyoaki Nishida: Intelligent Support for Construction and Exploration of Advanced Technological Information Space. 639-646

Planning and Scheduling

Taketsushi Yoshida, Masahiro Hori: Adaptation of a Production Scheduling Framework to Distributed Work Environment. 647-652

Masuhiro Ishitobi: Application of Genetic Algorithm to Alloy Casting Process Scheduling. 653-658
Shu-Chu Liu: Design and Development of An Integrated Intelligent Process Planning System Taking CAD Data Files as Input. 659-664

Marco Baioletti, Stefano Marcugini, Alfredo Milani: Encapsulation of Actions and Plans in Conditional Planning Systems. 665-672

Yacine Atif, Babak Hamidzadeh: On-line Optimization Techniques for Dynamic Scheduling of Real-Time Tasks. 673-680

Practical Applications

Andreas Böhm, Stefan Uellner: Application-Specific Configuration of Telecommunication Systems. 681-686

Takenao Ohkawa, Kaname Kakihara, Norihisa Komoda: Character Design Based on Concept Space Formation. 687-692

Martin Hitz, Thomas A. Möck: Customizing A* Heuristics for Network Routing. 693-698

Robert Williams, Yi Lu: Feature Selection in Automatic Transmission Shift Quality Classification. 699-704

Shigeo Kaneda, Katsuyuki Nakano, Daizi Nanba, Hisazumi Tsuchida, Megumi Ishii, Fumio Hattori: KOA: General Affairs Expert System with Easy Customization. 705-710
F. Toledo, S. Moreno, Enrique Bonet, G. Martin: Using Constraint Technology for Predictive Control of Urban Traffic Based on Qualitative and Temporal Reasoning. 711-718

Robotics


Enrique Cervera, Angel P. Del Pobil: Learning and Classification of Contact States in Robotic Assembly Tasks. 725-730


Vision


Begona Martinez, Angel P. Del Pobil: A Hierarchy of Detail for Representing Non-Convex Curved Objects. 751-760

Pedro J. Sanz, José Manuel Iñesta Quereda, Angel P. Del Pobil: Towards an Automatic Determination of Grasping Points Through a Machine Vision Approach. 767-774

Poster Abstracts

Case-Based Reasoning


Decision Making


Diagnosis

Mansour Esmaili, Reihaneh Safavi-Naini, Josef Pieprzyk: Computer Intrusion Detection and Incomplete Information. 778

Carlos Alonso González, Belarmino Pulido Junquera, G. Acosta Lazo: TURBOLID: Time Use In A Rule Based On Line Industrial Diagnoser. 779
Distributed AI

- Takayuki Itoh, Toramatsu Shintani: An Approach to a Multi-agent Based Scheduling System Using a Coalition Formation. 780

- Agostino Poggi, Giovanni Adorni, Paola Turci: Integrating Agent and Object-Oriented Programming Paradigms for Multi-Agent Systems Development. 781

- Akira Namatame, Yoshiaki Tsukamoto: Necessary Knowledge Sharing for Cooperative Learning among Agents. 782

Genetic Algorithm

- Toshihiko Ono, Gen Watanabe: Optimal Selection of Cutting Length of Bars by Genetic Algorithms. 783

Intelligent Tutoring

- Tsuruko Egi, Kazuoki Osada: A Descriptive Model of Student Program Generation Based on a Protocol Analysis. 784

- Lidia L. Hardy, Jose M. Yanez Prieto: An Intelligent Tutoring System for the Teaching of The Industry Equipment and Its Student Modeling. 785

Interactive System
Knowledge Based System

- [Image]

T. Rajkumar, H. Mohanty: K-Tree: An Efficient Structure for Verification and Inference in Rule-Based Systems. 787

Yasushi Shinohara: Software Fault Reduction Methodology for Reliable Knowledge Bases. 788

Knowledge Representation

- [Image]

John W. Gudenas, C. Robert Carlson: Macro Scale Object Complexity Measurement and Its Relation to A Semantic Model. 789

Logic Programming

- [Image]


Machine Learning

- [Image]

David Philpot, Tim Hendtlass: A Cascade of Neural Networks for Complex Classification. 791

Ken Satoh: PAC-Learning of Weights in Multiobjective Function by Pairwise Comparison. 792

Natural Language
Sivasundaram Suharnan, Hiroshi Karasawa: A Machine Translating Approach from Japanese to Tamil. 793

Neural Network

Jung H. Kim, Eui H. Park, Celestine A. Ntuen: Annealed Hopfield Network Approach for Boundary-Based Object Recognition. 794

Howard Copeland, Tim Hendtlass: Better Neurons for Biological Simulations. 795

N. Selvanathan, Mashkuri Hj. Yaacob: Canonical Form of Recurrent Neural Network Architecture. 796


Guiqing He, Puying Tang: A Nonlinear Optimization Neural Network for Optimum Multiuser Detectors. 798

Iren Valova, Yukio Kosugi: Parallel Computer Implementation for Feature Extraction via Answer-in-Weights Neural Network. 799

Ryuji Hamabe, Ho Chun Kuo: Serial and Parallel Neural Networks for Image Compression. 800
Planning and Scheduling

Felix T. S. Chan, Ralph W. L. Ip: Explore the Operational Problems of FMSs through Analytical Hierarchy Process and Simulation Approach. 801

Practical Application

Ryuto Fujie, Hiroyuki Fujie, Kunie Takeuchi, Oskar Bartenstein, Kosaku ShirotA: Spectacle Designing and Advice Computer Graphics System Using Artificial Intelligence. 802

Hisaji Fukuda: Study of a Consultation System for Railway Safety Countermeasure. 803

Robotics

Masaru Ishii, Hironori Saita: A Step Toward Human-Robot Cooperative System. 804
**Publication properties**

<table>
<thead>
<tr>
<th>Title:</th>
<th>Object-Oriented Model of Knowledge for The Intelligent Tutoring Shell.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rating:</td>
<td><img src="https://www.pubzone.org/images/rating_notRated.png" alt="Not rated yet" /></td>
</tr>
<tr>
<td>Discussion:</td>
<td>0 comments</td>
</tr>
<tr>
<td>Date:</td>
<td>1996</td>
</tr>
<tr>
<td>Publication type:</td>
<td>Conference paper</td>
</tr>
<tr>
<td>Authors:</td>
<td>No.</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**BibTeX:**

```
@inproceedings{conf/ieaaie/JerinicD96,
  author = {Ljubomir Jerinic and Vladan Devedzic},
  title = {Object-Oriented Model of Knowledge for The Intelligent Tutoring Shell},
  booktitle = {IEA/AIE},
  publisher = {Springer},
  pages = {103-112},
  year = {1996},
  isbn = {3-540-61057-7}
}"
```

**DBLP:**

`db/conf/ieaaie/ieaaie1996.html#JerinicD96`

**Bookmark:**

The following keywords have been assigned to this publication so far. If you have logged in, you can tag this publication with additional keywords.

**Keywords**

No keywords have been assigned to this publication yet.

If you **log in** you can tag this publication with additional keywords

A publication can refer to another publication (outgoing references) or it can be referred to by other publications (incoming references).

**Incoming References**
No incoming references have been assigned to this publication yet.

Outgoing References

No outgoing references have been assigned to this publication yet.

If you log in you can add references to other publications

A publication can be assigned to a conference, a journal or a school.

<table>
<thead>
<tr>
<th>Conference</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
<td>Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, Proceedings of the Ninth International Conference, Fukuoka, Japan, June 4-7, 1996 1996</td>
</tr>
<tr>
<td>DBLP:</td>
<td><a href="db/conf/ieaaie/ieaaie1996.html">db/conf/ieaaie/ieaaie1996.html</a></td>
</tr>
</tbody>
</table>