The Knowledge Engineering Review, Vol. 16:1, 2001, 101–109

From the journals . . .

AI Magazine

Vol. 21 No. 4
Articles
The Eleventh Innovative Applications of Artificial Intelligence Conference (IAAI-99)
R. Uthurusamy and B. Hayes Roth
The road ahead for knowledge management – An AI perspective
R. G. Smith and A. Farquhar
What does the future hold?
H. Shrobe
Last-minute travel application
A. Hubner, M. Lenz, R. Borch and M. Posthoff
Stand-allocation system (SAS) – A constraint-based system developed with software components
A. H. W. Chun, S. H. C. Chan, E. M. F. Tsang and D. W. M. Yeung
Ramp activity expert system for scheduling and coordination at an airport
G. S. Jo, J. J. Jung, J. H. Koo and S. H. Hyun
A new basis for spreadsheet computing – Interval solver for microsoft excel
E. Hyvonen and D. E. S. Pascale
Probabilistic algorithms in robotics
S. Thrun

Applied Artificial Intelligence

Vol. 14 No. 10
Articles
An extended system for conceptual clustering
C. H. Wu, C. J. Yu and S. J. Lee
Online transient behavior prediction in nuclear power plants
F. H. Chou and C. S. Ho

Applied Intelligence

Vol. 13 No. 3
Articles
Two-loop real-coded genetic algorithms with adaptive control of mutation step sizes
F. Herrera and M. Lozano
Neural nets trained by genetic algorithms for collision avoidance
N. Durand, J. M. Alliot and F. Medioni
Feature competitive algorithm for dimension reduction of the self-organizing map input space
H. L. Ye and B. W. N. Lo
Dynamic flexible constraint satisfaction
I. Miguel and Q. Shen
A coevolutionary algorithm for balancing and sequencing in mixed model assembly lines
Y. K. Kim, J. Y. Kim and Y. Kim
Defeasible logic on an embedded microcontroller
M. A. Covington
A symbolic approach to uncertainty management
M. Chachoua and D. Pacholczyk
Probabilistic pattern matching and the evolution of stochastic regular expressions
B. J. Ross

Artificial Intelligence

Vol. 122 Nos. 1–2
Articles
Belief functions and default reasoning
S. Benferhat, A. Saffiotti and P. Smets
Bounded-parameter Markov decision processes
R. Givan, S. Leach and T. Dean
Boolean connection algebras: A new approach to the Region-Connection Calculus
J. G. Stell
A new approach to cyclic ordering of 2D orientations using ternary relation algebras
A. Isli and A. G. Cohn
Constraint propagation techniques for the disjunctive scheduling problem
U. Dorndorf, E. Pesch and P. H. Toan
Computational complexity of planning and approximate planning in the presence of incompleteness
V. Kreinovich and R. Trejo
Vol. 123 Nos. 1–2
Articles
A Lagrangian reconstruction of GENET
K. M. F. Choi, J. H. M. Lee and P. J. Stuckey
Expressing preferences in default logic
J. P. Delgrande and T. Schaub
Understanding dynamic scenes
A. Chella, M. Frixione and S. Gaglio
Decomposable constraints
I. Gent, K. Stergiou and T. Walsh
Feature subset selection by Bayesian network-based optimization
I. Inza, P. Larranaga, R. Etxeberria and B. Sierra
Prioritized logic programming and its application to commonsense reasoning
C. Sakama and K. Inoue
Querying temporal and spatial constraint networks in PME
M. Koubarakis and S. Skiadopoulos
M. Shanahan, Solving the Frame Problem
V. Lifschitz
M. Shanahan, Solving the Frame Problem
J. McCarthy
M. Shanahan, Solving the Frame Problem
E. Sandewall
M. Shanahan, Solving the Frame Problem
M. Shanahan

https://doi.org/10.1017/S0269888901000054 Published online by Cambridge University Press

Vol. 124 No. 1
Articles
An efficient algorithm for searching implicit AND/OR graphs with cycles
P. Jimenez and C. Torras
Alternative foundations for Reiter's default logic
T. Linke and T. Schaub
EXPtime tableaux for ALC
F. M. Donini and F. Massacci
Sketch-based pruning of a solution space within a formal geometric constraint solver
C. Essert Villard, P. Schreck and J. F. Dufourd
Truth from Trash. How learning makes sense by Chris Thornton
J. Hernandez Orallo

Artificial Intelligence in Engineering

Vol. 14 No. 3
Articles
Collaborative and concurrent engineering in the construction industry – Guest editor's introduction
C. J. Moore
CAIRO: a concurrent engineering meeting environment for virtual design teams
F. Pena Mora, K. Hussein, S. Vadhavkar and K. Benjamin
Telepresence in concurrent lifecycle design and construction
C. J. Anumba and A. K. Duke
SEED-Config: a tool for conceptual structural design in a collaborative building design environment
S. J. Fenves, H. Rivard and N. Gomez
Versioning and configuration management in design using CAD and complex wrapped objects
J. C. Miles, W. A. Gray, T. W. Carnduff, I. Santoyridis and A. Faulconbridge
Constraint-based support for negotiation in collaborative design
C. Lottaz, I. F. C. Smith, Y. Robert Nicoud and B. V. Faltings
Vol. 14 No. 4
Articles
Issues in the performance measurement of constraint-satisfaction techniques
J. Tay and C. Quek
Routing in computer networks using artificial neural networks
S. Pierre, H. Said and W. G. Probst
Prediction of the bulking phenomenon in wastewater treatment plants
L. Belanche, J. Valdes, J. Comas, I. R. Roda and M. Poch
A genetic algorithm for generating optimal assembly plans
B. Lazzerini and F. Marcelloni
Debugging VHDL designs using model-based reasoning
F. Wotawa

Artificial Intelligence Review

Vol. 14 Nos. 1–2
Articles
Intelligent help systems for UNIX: Computational models and systems
S. J. Hegner, P. McKevitt, P. Norvig and R. Wilensky
An intelligent human-computer interface for provision of on-line help
J. Jerrams Smith
Virtues and problems of an active help system for UNIX
M. Virvou, J. Jones and M. Millington
The Berkeley UNIX consultant project
R. Wilensky, D. N. Chin, M. Luria, J. Martin, J. Mayfield and D. K. Wu
The OSCON Operating System Consultant
P. McKevitt
USCSH: An active intelligent assistance system
M. Matthews, W. Pharr, G. Biswas and H. Neelakandan
Vol. 14 No. 3
Articles
Intelligent help systems for UNIX: Planning and knowledge representation
S. J. Hegner, P. McKevitt, P. Norvig and R. Wilensky
The SINIX Consultant – Towards a theoretical treatment of plan recognition
M. Hecking
Plan realization for complex command interaction in the UNIX help domain
S. J. Hegner
An assumption-based truth maintenance system in active aid for UNIX users
J. Jones, M. Millington and M. Virvou
What do you know about mail? Knowledge representation in the SINIX Consultant
C. Kemke
Vol. 14 Nos. 4–5
Articles
Editorial intelligent help systems for UNIX: Natural language dialogue
S. J. Hegner, P. McKevitt, P. Norvig and R. Wilensky
Planning intelligent responses in a natural language system
D. N. Chin
Strategies for expressing concise, helpful answers
D. N. Chin
Evaluating plan recognition systems: Three properties of a good explanation
J. Mayfield
Representing UNIX domain metaphors
J. H. Martin
Using justification patterns to advise novice UNIX users
A. Quilici

Computers and Artificial Intelligence

Vol. 19 No. 4
Articles
Some pitfalls of parallel logic programming
S. Prestwich
Generalized royal road functions and their epistasis
B. Naudts, D. Suys and A. Verschoren
On derivatives estimation of smoothed digital curves
J. A. Glas
Load balancing issues in the prepartitioning method
J. Galtier
Comprehending loops in a process functional programming language
J. Kollar

https://doi.org/10.1017/S0269888901000054 Published online by Cambridge University Press

Engineering Applications of Artificial Intelligence

Vol. 13 No. 6
Articles
Genetic adaptive state estimation
J. R. Gremling and K. M. Passino
Solving inverse initial-value, boundary-value problems
C. L. Karr, I. Yakushin and K. Nicolosi
Application of interactive genetic algorithm to fashion design
H. S. Kim and S. B. Cho
Real-time integrated process supervision
C. Quek and A. Wahab
Robust stability of feedback linearised systems modelled with neural networks: dealing with uncertainty
M. A. Botto, B. Wams, T. van den Boom and J. S. da Costa
Intelligent control of precision linear actuators
T. H. Lee, K. K. Tan, S. N. Huang and H. F. Dou
A methodology for building neural networks models from empirical engineering data
Y. Reich and S. V. Barai
Closed-loop fault diagnosis based on a nonlinear process model and automatic fuzzy rule generation
P. Balle and D. Fuessel
Neuro-fuzzy modelling of power plant flue-gas emissions
E. Ikonen, K. Najim and U. Kortela
A fuzzy knowledge-based system for railway traffic control
A. Fay
A new fuzzy decision-making procedure applied to emergency electric power distribution scheduling
S. K. Mohammadi, I. Hassanzadeh, R. M. Mathur and K. V. Patil
Structural analysis in control systems design of hydraulic drives
B. Stein and E. Vier

Expert Systems With Applications

Vol. 19 No. 4
Articles
A case-based reasoning approach to cognitive map-driven tacit knowledge management
J. B. Noh, K. C. Lee, J. K. Kim, J. K. Lee and S. H. Kim
Decision supporting functionality in a virtual enterprise network
H. C. W. Lau, K. S. Chin, K. F. Pun and A. Ning
The development of a decision model for liquidity analysis
S. T. Li, L. Y. Shue and W. Shiue
Intelligent system architecture for process operation support
M. Rao, X. Sun and J. Feng
Reflective knowledge models to support an advanced HCI for decision management
J. Z. Hernandez and J. M. Serrano
An architecture for the deployment of mobile decision support systems
S. Daume and D. Robertson
A tool to discover the main themes in a Spanish or English document
J. F. Martinez Trinidad, B. Beltran Martinez and J. Ruiz Shulcloper

IEEE Transactions on Knowledge and Data Engineering

Vol. 12 No. 6
Articles
Integrating security and real-time requirements using covert channel capacity
S. H. Son, R. Mukkamala and R. David
ASEP: A secure and flexible commit protocol for MLS distributed database systems
I. Ray, L. V. Mancini, S. Jajodia and E. Bertino
Secure databases: Constraints, inference channels, and monitoring disclosures
A. Brodsky, C. Farkas and S. Jajodia
Exploiting spatial indexes for semijoin-based join processing in distributed spatial databases
K. L. Tan, B. C. Ooi and D. J. Abel
Object-based selective materialization for efficient implementation of spatial data cubes
N. Stefanovic, J. W. Han and K. Koperski
Semantic query optimization for query plans of heterogeneous multidatabase systems
C. N. Hsu and C. A. Knoblock
Performance analysis of parallel query processing algorithms for object-oriented databases
S. Y. W. Su, S. Ranka and X. He

IEEE Transactions on Neural Networks

Vol. 11 No. 6
Articles
Anisotropic noise injection for input variables relevance determination
Y. Grandvalet
Synthesis of feedforward networks in supremum error bound
K. Ciesielski, J. P. Sacha and K. J. Cios
Approximating the maximum weight clique using replicator dynamics
I. M. Bomze, M. Pelillo and V. Stix
Local PCA algorithms
A. Weingessel and K. Hornik
A recurrent neural network for nonlinear optimization with a continuously differentiable objective function and bound constraints
X. B. Liang and J. Wang
Building cost functions minimizing to some summary statistics
M. Saerens
On-line learning of dynamical systems in the presence of model mismatch and disturbances
D. Jiang and J. Wang
Convergent on-line algorithms for supervised learning in neural networks
L. Grippo
State-based SHOSLIF for indoor visual navigation
S. Y. Chen and J. Y. Weng
Asynchronous self-organizing maps
M. W. Benson and J. Hu
Fast combinatorial optimization with parallel digital computers
H. Kakeya and Y. Okabe
Generalization of adaptive neuro-fuzzy inference systems
M. F. Azeem, M. Hanmandlu and N. Ahmad
Stable neural controller design for unknown nonlinear systems using backstepping
Y. P. Zhang, P. Y. Peng and Z. P. Jiang

https://doi.org/10.1017/S0269888901000054 Published online by Cambridge University Press

Voronoi networks and their probability of misclassification
K. Krishna, M. A. L. Thathachar and K. R. Ramakrishnan
User adaptive handwriting recognition by self-growing probabilistic decision-based neural networks
H. C. Fu, H. Y. Chang, Y. Y. Xu and H. T. Pao
Morphology and autowave metric on CNN applied to bubble-debris classification
I. Szatmari, A. Schultz, C. Rekeczky, T. Kozek, T. Roska and L. O. Chua
Neural discriminant analysis
M. Tsujitani and T. Koshimizu
A hybrid linear-neural model for time series forecasting
M. C. Medeiros and A. Veiga
Blind extraction of singularly mixed source signals
Y. Q. Li, J. Wang and J. M. Zurada
An iterative inversion approach to blind source separation
S. Cruces Alvarez, A. Cichocki and L. Castedo Ribas
Elementary function generators for neural-network emulators
S. Vassiliadis, M. Zhang and J. G. Delgado Frias
Reinforcement and backpropagation training for an optical neural network using self-lensing effects
A. A. Cruz Cabrera, M. T. Yang, G. Q. Cui, E. C. Behrman, J. E. Steck and S. R. Skinner
Variational Gaussian process classifiers
M. N. Gibbs and D. J. C. MacKay
A robust neural controller for underwater robot manipulators
M. Lee and H. S. Choi
Decentralized sliding mode adaptive controller design based on fuzzy neural networks for interconnected uncertain nonlinear systems
F. P. Da
Global stability for cellular neural networks with time delay
T. L. Liao and F. C. Wang
L-p approximation of Sigma-Pi neural networks
Y. H. Luo and S. Y. Shen
Self-stabilized gradient algorithms for blind source separation with orthogonality constraints
S. C. Douglas
Learning parametric specular reflectance model by radial basis function network
S. Y. Cho and T. W. S. Chow
Heteroassociations of spatio-temporal sequences with the bidirectional associative memory
L. P. Wang
A comment on "On equilibria, stability, and instability of Hopfield neural networks"
X. B. Liang
A comment on "On equilibria, stability, and instability of Hopfield neural networks" – Author's reply
Z. H. Guan, G. R. Chen and Y. Qin

IEEE Transactions on Pattern Analysis and Machine Intelligence

Vol. 22 No. 10
Articles
Geometric camera calibration using circular control points
J. Heikkila
ICA mixture models for unsupervised classification of non-Gaussian classes and automatic context switching in blind signal separation
T. W. Lee, M. S. Lewicki and T. J. Sejnowski
The FERET evaluation methodology for face-recognition algorithms
P. J. Phillips, H. Moon, S. A. Rizvi and P. J. Rauss
Multi-frame estimation of planar motion
L. Zelnik Manor and M. Irani
Completion energies and scale
E. Sharon, A. Brandt and R. Basri
Toward improved ranking metrics
N. Sebe, M. S. Lew and D. P. Huijsmans
Mosaicing on adaptive manifolds
S. Peleg, B. Rousso, A. Ravacha and A. Zomet
How bad may learning curves be?
H. Z. Gu and H. Takahashi
Biometric identification through hand geometry measurements
R. Sanchez Reillo, C. Sanchez Avila and A. Gonzalez Marcos
Nonmetric calibration of wide-angle lenses and polycameras
R. Swaminathan and S. K. Nayar
Self-calibration of a 1D projective camera and its application to the self-calibration of a 2D projective camera
Faugeraso, L. Quan and P. Strum
Shape similarity measure based on correspondence of visual parts
L. J. Latecki and R. Lakamper
Independent motion detection in 3D scenes
H. S. Sawhney, Y. L. Guo and R. Kumar
A case against Kruppa's equations for camera self-calibration
P. Sturm
An orientation reliability matrix for the iterative closest point algorithm
B. U. Lee, C. M. Kim and R. H. Park
Vol. 22 No. 11
Articles
A statistical, nonparametric methodology for document degradation model validation
T. Kanungo, R. Haralick, H. S. Baird, W. Stuezle and D. Madigan
Geometric structure analysis of document images: A knowledge-based approach
K. H. Lee, Y. C. Choy and S. B. Cho
Skeletonization of three-dimensional object using generalized potential field
J. H. Chuang, C. H. Tsai and M. C. Ko
An adaptive contour closure algorithm and its experimental evaluation
X. JiangY
A fingerprint verification system based on triangular matching and dynamic time warping
Z. M. Kovacs Vajna
Hierarchical discriminant regression
W. S. Hwang and J. Weng
On the fitting of surfaces to data with covariances
W. Chojnacki, M. J. Brooks, A. van den Hengel and D. Gawley
Segmentation of single- or multiple-touching handwritten numeral string using background and foreground analysis
Y. K. Chen and J. F. Wang
Mode-finding for mixtures of Gaussian distributions
M. A. Carreira Perpinan
Viewpoint estimation in three-dimensional images taken with perspective range sensors
J. M. Sanchiz and R. B. Fisher
A flexible new technique for camera calibration
Z. Y. Zhang
Performance evaluation of the nearest feature line method in image classification and retrieval
S. Z. Li, K. L. Chan and C. L. Wang
Comments on: "Robust line fitting in a noisy image by the method of moments"
N. Kiryati, A. M. Bruckstein and H. Mizrahi

https://doi.org/10.1017/S0269888901000054 Published online by Cambridge University Press

Vol. 22 No. 12
Articles
A 20th Anniversary Survey: Introduction to "Content-Based Image Retrieval at the End of the Early Years"
K. Bowyer and P. Flynn
Content-based image retrieval at the end of the early years
A. W. M. Smeulders, M. Worring, S. Santini, A. Gupta and R. Jain
Uncertainty propagation and the matching of junctions as feature groupings
X. Q. Shen and P. Palmer
Clustering by scale-space filtering
Y. Leung, J. S. Zhang and Z. B. Xu
Use of the two-dimensional Radon Transform to generate a taxonomy of shape for the characterization of abrasive powder particles
V. F. Leavers
Automatic analysis of facial expressions: The state of the art
M. Pantic and L. J. M. Rothkrantz
Stereo calibration from rigid motions
R. Horaud, G. Csurka and D. Demirdijian
Model-based estimation of 3D human motion
I. Kakadiaris and D. Metaxas
Constraint-based sensor planning for scene modeling
M. K. Reed and P. K. Allen
Validity measures for the fuzzy cluster analysis of orientations
R. E. Hammah and J. H. Curran

IEEE Transactions on Robotics and Automation

Vol. 16 No. 5
Articles
Rolling-based manipulation for multiple objects
K. Harada, M. Kaneko and T. Tsuji
On dynamic control of finger sliding and object motion in manipulation with multifingered hands
X. Z. Zheng, R. Nakashima and T. Yoshikawa
Control of contact via tactile sensing
H. Zhang and N. N. Chen
Haptic discrimination of softness in teleoperation: The role of the contact area spread rate
A. Bicchi, E. P. Scilingo and D. DeRossi
Human-machine cooperative telemanipulation with motion and force scaling using task-oriented virtual tool dynamics
T. Itoh, K. Kosuge and T. Fukuda
Configuration manifolds and their applications to robot dynamic modeling and control
E. Y. L. Gu
A novel stereo camera system by a biprism
D. Lee and I. Kweon
Geometrical matching for mobile robot localization
E. M. Mouaddib and B. Marhic
Discrete-time Markov reward models of automated manufacturing systems with multiple part types and random rewards
R. Mallubhatla and K. R. Pattipati
DT-bottlenecks in serial production lines: Theory and application
S. Y. Chiang, C. T. Kuo and S. M. Meerkov
Transfer line design with uncertain machine performance information
E. M. Feit and S. D. Wu
Part transfer mode selection in a cyclic mixed-model line
S. Karabati
An extension to operational space for kinematically redundant manipulators: Kinematics and dynamics
P. H. Chang, K. C. Park and S. Lee
Identifying single-ended contact formations from force sensor patterns
M. Skubic and R. A. Volz
Minimal realization of an arbitrary spatial stiffness matrix with a parallel connection of simple and complex springs
R. G. Roberts
Adaptive tracking control of a nonholonomic mobile robot
T. Fukao, H. Nakagawa and N. Adachi
New potential functions for mobile robot path planning
S. Ges and Y. J. Cui

International Journal of Computer Vision

Vol. 39 No. 3
Articles
Color constancy using the inter-reflection from a reference nose
M. Abdellatif, Y. Tanaka, A. Gofuku and I. Nagai
Optimal structure from motion: Local ambiguities and global estimates
A. Chiuso, R. Brockett and S. Soatto
Probabilistic modeling and recognition of 3-D objects
J. Hornegger, H. Niemann
Vol. 40 No. 1
Articles
Statistical and computational theories of vision: Modeling, learning, sampling and computing, part i
S. C. Zhu, A. Yuille and D. Mumford
Meaningful alignments
A. Desolneux, L. Moisan and J. M. Morel
Learning low-level vision
W. T. Freeman, E. C. Pasztor and O. T. Carmichael
A parametric texture model based on joint statistics of complex wavelet coefficients
J. Portilla and E. P. Simoncelli
How optimal depth cue integration depends on the task
P. R. Schrater and D. Kersten
Vol. 40 No. 2
Articles
The Earth Mover's Distance as a metric for image retrieval
Y. Rubner, C. Tomasi and L. J. Guibas
Single view metrology
A. Criminisi, I. Reid and A. Zisserman
Probabilistic models of appearance for 3-D object recognition
A. R. Pope and D. G. Lowe
Closed form solution of local shape from shading at critical points
T. Okatani and K. Deguchi

https://doi.org/10.1017/S0269888901000054 Published online by Cambridge University Press

International Journal of Intelligent Systems

Vol. 15 No. 11
Articles
On ordering fuzzy numbers
H. B. Mitchell and P. A. Schaefer
Modeling linguistic qualifiers of uncertainty in a fuzzy database
G. Bordogna and G. Pasi
Granular worlds: Representation and communication problems
W. Pedrycz and E. Vukovich
Penniless propagation in join trees
A. Cano, S. Moral and A. Salmeron
Fuzzy types: A new concept of type for managing vague structures
N. Marin, O. Pons and M. A. Vila
Computational verb systems: Verb predictions and their applications
T. Yang
Vol. 15 No. 12
Articles
Prototyping structural description using an inductive learning program
A. Amin
Generating domain knowledge for requirement analysis based on acquisition ontology
C. Y. I. Lin and C. S. Ho
Adaptive fuzzy learning control for a class of nonlinear dynamic systems
W. G. Seo, B. H. Park and J. S. Lee
Task-based conceptual graphs as a basis for automating software development
J. Lee, L. F. Lai, K. H. Hsu and Y. Y. Fanjiang
Vol. 16 No. 1
Articles
A rough set approach to reasoning about data
J. F. Peters and A. Skowron
Drawing conclusions from data – The rough set way
Z. Pawlak
Induction of decision rules in classification and discovery-oriented perspectives
J. Stefanowski and D. Vanderpooten
Three discretization methods for rule induction
J. W. Grzymala Busse and J. Stefanowski
Refining classifiers with neural networks
M. S. Szczuka
Information granules: Towards foundations of granular computing
A. Skowron and J. Stepaniuk
Information granulation and rough set approximation
Y. Y. Yao
Comparative study of alternative types of knowledge reduction in inconsistent systems
M. Kryszkiewicz
Roughian: Rough information analysis
I. Duntsch and G. Gediga

International Journal of Software Engineering and Knowledge Engineering

Vol. 10 No. 4
Articles
11th International Conference on Software Engineering and Knowledge Engineering (SEKE'99) – Guest editor's introduction
G. Ruhe
Formal specification and prototyping of multimedia applications
T. Arndt, S. K. Chang and A. Guercio
Specifying software architectural connectors in SAM
X. D. He and Y. Deng
Using incremental planning to Foster application framework reuse
A. Ortigosa and M. Campo
UML as domain specific language for the construction of knowledge-based configuration systems
A. Felfernig, G. E. Friedrich and D. Jannach
Object modeling to re-engineer legacy systems
J. Guo and Luqi
Knowledge acquisition and process guidance for building system dynamics simulation models: An experience report from software industry
D. Pfahl and K. Lebsanft
Distributed process planning support with MILOS
S. Goldmann, J. Munch and H. Holz
Issues and models in software product lines
J. L. Diaz Herrera, P. Knauber and G. Succi
From software experience databases to learning organizations
R. Conradi
Issues with meta-knowledge
T. Menzies, K. D. Althoff, Y. Kalfoglou and E. Motta
Vol. 10 No. 5
Multiple views analysis of software designs
B. Belkhouche and C. Lemus Olalde
A metric for the size estimation of object-oriented graphical user interfaces
G. Costagliola, F. Ferrucci, G. Tortora and G. Vitiello
Production and maintenance of goal-oriented software measurement models
G. Cantone and P. Donzelli
A design rationale based environment for cooperative maintenance
G. Canfora, G. Casazza and A. DeLucia

Journal of Intelligent & Robotic Systems

Vol. 29 No. 4
Articles
Neural-fuzzy applications in computer vision
H. O. Nyongesa and P. L. Rosin
An investigation of the effects of variable vigilance within the RePART neuro-fuzzy network
A. Canuto, G. Howells and M. Fairhurst
Computerised auto-scoring system based upon feature extraction and neural network technologies
D. J. Hou, Q. Song and Y. C. Soh
A soft computing approach to road classification
J. Shanahan, B. Thomas, M. Mirmehdi, T. Martin, N. Campbell and J. Baldwin
3D geometry reconstruction from multiple segmented surface descriptions using neuro-fuzzy similarity measures
D. Fischer and P. Kohlhepp
Mapping land cover from remotely sensed data with a softened feedforward neural network classification
G. M. Foody

https://doi.org/10.1017/S0269888901000054 Published online by Cambridge University Press

Journal of Intelligent Manufacturing

Vol. 11 No. 5
Articles
Clustering and selection of multiple criteria alternatives using unsupervised and supervised neural networks
B. Malakooti and V. Raman
Tabu search for scheduling on identical parallel machines to minimize mean tardiness
V. A. Armentano and D. S. Yamashita
A knowledge-based system for reactive scheduling decision-making in FMS
J. F. Okane
A dynamic safety system based on sensor fusion
B. Karlsson, N. Karlsson and P. Wide
A neural network approach for defect identification and classification on leather fabric
C. Kwak, J. A. Ventura and K. Tofang Sazi
Vol. 11 No. 6
Articles
Tool condition monitoring using reflectance of chip surface and neural network
S. H. Yeo, L. P. Khoo and S. S. Neo
Object-oriented CAM design through the internet
J. Larson and H. H. Cheng
Accuracy enhancement of multi-axis CNC machines through on-line neurocompensation
A. El Ouafi, M. Guillot and A. Bedrouni
A neural network model to determine the plate width set-up value in a hot plate mill
D. Y. Lee, H. S. Cho and D. Y. Cho
A three-level knowledge-based system for the generation of live and safe Petri nets for manufacturing systems
L. Castillo, J. Fdez Olivares and A. Gonzalez
Distributed artificial intelligence for FMS scheduling, control and design support
D. Trentesaux, P. Pesin and C. Tahon
Large machine-part family formation utilizing a parallel ART1 neural network
D. Enke, K. Ratanapan and C. Dagli

Journal of Symbolic Computation

Vol. 30 No. 5
Articles
A systematic framework for solving geometric constraints analytically
C. Durand and C. M. Hoffmann
Computing orbits of minimal parabolic k-subgroups acting on symmetric k-varieties
A. G. Helminck
An algorithm for the Quillen-Suslin Theorem for quotients of polynomial rings by monomial ideals
R. Laubenbacher and K. Schlauch
On the practical solution of genus zero diophantine equations
D. Poulakis and E. Voskos
Proper parametrization of real tubular surfaces
J. Schicho
Divisorial extensions and the computation of integral closures
W. V. Vasconcelos
(1 + i)-ary GCD computation in Z[i] as an analogue to the binary GCD algorithm
A. Weilert
The symbolic integration of exact PDEs
T. Wolf
Vol. 30 No. 6
Articles
Special issue on algorithmic methods in Galois theory – Foreword of the guest editors
B. H. Matzat, J. McKay and K. Yokoyama
Using Galois ideals for computing relative resolvents
P. Aubry and A. Valibouze
Galois group computation for rational polynomials
K. Geissler and J. Kluners
Explicit Galois realization of transitive groups of degree up to 15
J. Kluners and G. Malle
Multi-parameter polynomials with given Galois group
G. Malle
A polynomial with Galois group SL2(11)
J. Kluners
Boundary of Hurwitz spaces and explicit patching
J. M. Couveignes
An algorithm of Katz and its application to the inverse Galois problem
M. Dettweiler and S. Reiter
Projective linear groups as Galois groups over Q via modular representations
L. Dieulefait and N. Vila
Explicit solutions of Galois embedding problems by means of generalized Clifford algebras
M. Vela
Generic polynomials with few parameters
G. Kemper and E. Mattig
Generic and explicit realization of small p-groups
A. Ledet
Generic extensions and generic polynomials
A. Ledet

Knowledge-Based Systems

Vol. 13 No. 5
Special Issue
The role of artificial intelligence in knowledge management
E. Tsui, B. J. Garner and S. Staaß
MACS: Multi-Agent COTR System for defense contracting
J. Liebowitz, M. Adya, B. Rubenstein Montano, V. Yoon, J. Buchwalter, M. Imhoff, S. Baek and C. Suen
Smart task support through proactive access to organizational memory
S. Staab and H. P. Schnurr
EULE: A knowledge-based system to support business processes
U. Reimer, A. Margelisch and M. Staudt
Information supply for business processes: coupling workflow with document analysis and information retrieval
A. Abecker, A. Bernardi, H. Maus, M. Sintek and C. Wenzel
An information filtering model on the Web and its application in JobAgent
Y. Li, C. Zhang and J. R. Swan
Knowledge capitalisation through case bases and knowledge engineering for road safety analysis
A. C. Boury Brisset and N. Tourigny
An agent-based approach for integrating user profile into a knowledge management process
S. Pierre, C. Kacan and W. Probst
The role of artificial intelligence technologies in the implementation of People-Finder knowledge management systems
I. Becerra Fernandez

https://doi.org/10.1017/S0269888901000054 Published online by Cambridge University Press

XML, metadata and efficient knowledge discovery
K. Lang and M. Burnett
Vol. 13 No. 6
Articles
Special issue on Strategic Knowledge and Concept Formation
E. A. Edmonds
A computational framework for concept formation for a situated design agent
J. S. Gero and H. Fujii
An ontology of strategic knowledge: key concepts and applications
K. Hori
Hands-on representations in a two-dimensional space for early stages of design
Y. Yamamoto, K. Nakakoji and S. Takada
Supporting design through the strategic use of shape grammars
M. Smyth and E. Edmonds
Making new design ideas more concrete
T. Tuikka and K. Kuutti
Pattern-based refinement schemas for design knowledge transfer
I. Khriss, R. K. Keller and I. A. Hamid
Concept development of consumer goods utilizing strategic knowledge
Y. Ishino, K. Hori and S. Nakasuka
Designing collaborative environments for strategic knowledge in design
T. Kvan and L. Candy

Vol. 13 Nos. 7–8
Special issue on creativity and cognition
L. Candy
Multimodal tool support for creative tasks in the visual arts
J. Sedivy and H. Johnson
Computational support for collective creativity
K. Nakakoji, Y. Yamamoto and M. Ohira
Composition Analyzer: support tool for composition analysis on painting masterpieces
S. Tanaka, J. Kurumizawa, S. Inokuchi and Y. Iwadate
Integrating craft materials and computation
G. Blauvelt, T. Wrensch and M. Eisenberg
Interaction in multimedia art
A. J. Bongers
A framework of general instruments for multimedia art creation
K. Nishimoto and K. Mase
Emotion recognition and its application to computer agents with spontaneous interactive capabilities
R. Nakatsu, J. Nicholson and N. Tosa
Towards understanding and supporting creativity in design: analogies in a constrained cognitive environment
N. Bonnardel
Ontology, esthetics and creativity at the crossroads in Information System design
A. Faro and D. Giordano
Symmetry of ignorance, social creativity, and meta-design
G. Fischer

Kybernetes

Vol. 29 Nos. 9–10
Articles
Millennium volume: cybernetics and systems in the new millennium – III
B. H. Rudall
To the role of decomposition strategy in high parallel algorithms
I. Hanuliak
About the mathematical expression of the observation operators
E. Otlacan
Models of reality and reality of models
G. G. Constandache
Computer-mediated communication use by the deaf and hard-of-hearing
J. M. Bishop, L. Taylor and F. Froy
Adaptive dynamic input-output analysis using neural networks – Japanese industrial structure
Y. Ito
Digital setting for instruction – Didactic communicative technology
A. Nigro
Identification of biological signal sources for circadian and cardiac cycle rhythms using BP neural networks
Y. Cisse, Y. Kinouchi, H. Nagashino and M. Akutagawa
Requisite holism, isolating mechanisms and entrepreneurship
M. Rebernik and M. Mulej
Brain organization and information activity
O. G. Chorayan and G. O. Chorayan
Homeostatics: science of the twenty-first century
Y. M. Gorsky, A. M. Stepanov and A. G. Teslinov
Homeostatics as the basis for forecasting the global ecological catastrophe
Y. M. Gorsky, A. M. Stepanov, A. G. Teslinov, O. V. Kudrevatova and S. V. Pokrovsky
Constructions in swarms – From simple rules to complex structures
A. Adamatzky and C. Melhuish
Sustainable development as a challenge for environmental cybernetics
C. Halbich
Organisations, complexity, and viable knowledge management
M. Yolles
Uncertainty information and uncertainty systems
W. Q. Yin, R. Biao and F. L. Wang
Continuous logic I. Basic concepts
V. I. Levin
Continuous logic II. Main generalizations
V. I. Levin
On the effects of random time in dynamical systems
G. Jumarie
Optimisation of two variables function with linear inequalities constraints – Contraction of the feasible region
H. Ammar and Y. Cherruault
Monte Carlo tests of cointegration with structural breaks
R. Ostermark and R. Hoglund
Convergence of Adomian's method applied to algebraic equations
R. Z. Ouedraogo, Y. Cherruault and K. Abbaoui
Adaptation of linguistic laws to ecological models
P. Sastr, E. Vazquez, J. L. Uso Domenech and J. Mateu
Adaptation of linguistic laws to ecological models – Internet commentary
A. M. Andrew
Framsticks
A. Adamatzky, M. Komosinski and S. Ulatowski

https://doi.org/10.1017/S0269888901000054 Published online by Cambridge University Press

Machine Learning

Vol. 41 No. 3
Articles
Bottom-up induction of feature terms
E. Armengol and E. Plaza
Enlarging the margins in perceptron decision trees
K. P. Bennett, N. Cristianini, J. Shaw, E. Taylor and D. H. Wu
Cascade generalization
J. Gama and P. Brazdil
Markov processes on curves
L. K. Saul and M. G. Rahim
Vol. 42 Nos. 1–2
Articles
Untitled – Introduction
D. Fisher
An experimental comparison of model-based clustering methods
M. Meila and D. Heckerman
SPADE: An efficient algorithm for mining frequent sequences
M. J. Zaki
Confirmation-guided discovery of first-order rules with Tertius
P. A. Flach and N. Lachiche
Supervised versus unsupervised binary-learning by feedforward neural networks
N. Japkowicz
Linear concepts and hidden variables
A. J. Grove and D. Roth
Concept decompositions for large sparse text data using clustering
I. S. Dhillon and D. S. Modha
Unsupervised learning by probabilistic latent semantic analysis
T. Hofmann

https://doi.org/10.1017/S0269888901000054 Published online by Cambridge University Press