

From the journals . . .

AI Magazine

Vol. 21 No. 4

Articles

The Eleventh Innovative Applications of Artificial Intelligence Conference (IAAI-99)

R. Uthrusamy 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

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. McKeivitt, 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. McKeivitt

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. McKeivitt, 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. McKeivitt, 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 repartitioning method

J. Galtier

Comprehending loops in a process functional programming language

J. Kollar

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

- 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. Stuezel 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. Jiang
- 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

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

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

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 $\mathbb{Z}[i]$ 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 $SL_2(11)$

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 $\mathbb{Q}$ 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. Staaß 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

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. Iwadata

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. Halbach

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

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

