

From the journals . . .

AI Magazine

Vol. 24 No. 1

Articles

Charles Abraham Rosen – Scientist and visionary:
1917–2002

PE Hart and NJ Nilsson

Norman Russell Nielsen: 1941–2002

R Perrault

Saul Amarel: 1928–2002

T Mitchell and CA Kulikowski

In memoriam: Raymond Reiter June 12, 1939–September
16, 2002

J Minker

Intelligent control of a water-recovery system – Three
years in the trenches

P Bonasso, D Kortenkamp and C Thronesbery

TAC-03 – A supply-chain trading competition

*N Sadeh, R Arunachalam, J Eriksson, N Finne and S
Janson*

Applied Artificial Intelligence

Vol. 17 No. 3

Articles

Concept lattice-based theory, methods and tools for
knowledge discovery in databases: Applications –
Introduction

EM Nguifo, V Duquenne and M Liquiere

Multi-level knowledge discovery from rule bases

D Richards and U Malik

The Cube lattice model and its applications

L Chaudron, N Maille and M Boyer

Structuration of phenotypes and genotypes through Galois
lattices and implications

V Duquenne, C Chabert, A Cherfouh, AL Doyen, JM

Delabar and D Pickering

Document retrieval for e-mail search and discovery using
Formal Concept Analysis

R Cole, P Eklund and G Stumme

Conceptual knowledge discovery – A human-centered
approach

JH Correia, G Stumme, R Wille and U Wille

Vol. 17 No. 4

Articles

Automatically constructing multi-relationship fuzzy
concept networks for document retrieval

Horng YJ, SM Chen and CH Lee

Prediction and modeling of the rainfall-runoff
transformation of a typical urban basin using ANN and GP

*J Dorado, JR Rabunal, A Pazos, D Rivero, A Santos and
J Puertas*

Neural network based biomass and growth rate estimation
aimed to control of a chemostat microbial cultivation

S Popova, P Koprinkova and T Patarinska

Neural networks in production scheduling: Intelligent
solutions and future promises

K Metaxiotis and J Psarras

Applied Intelligence

Vol. 18 No. 3

Articles

Guest editorial: Text and web mining

AH Tan and PS Yu

Genetic mining of HTML structures for effective Web-
document retrieval

S Kim and BT Zhang

Text retrieval from document images based on word shape
analysis

CL Tan, WH Huang, SY Sung, ZH Yu and Y Xu

Text mining in the SOMLib Digital Library System: The
representation of topics and genres

A Rauber and D Merkl

A multilingual text mining approach based on self-
organizing maps

CH Lee and HC Yang

On machine learning methods for Chinese document
categorization

J He, AH Tan and CL Tan

Text mining techniques to automatically enrich a domain
ontology

M Missikoff, P Velardi and P Fabriani

Extracting logical schema from the web

V Carchiolo, A Longheu and M Malgeri

Knowledge discovery in texts for constructing decision
support systems

S Loh, JPM De Oliveira and MA Gameiro

Artificial Intelligence

Vol. 143 No. 2

Articles

Algorithms for propagating resource constraints in AI
planning and scheduling: Existing approaches and new
results

P Laborie

Problem difficulty for tabu search in job-shop scheduling

JP Watson, JC Beck, AE Howe and LD Whitley

Complexity results for standard benchmark domains in
planning

M Helmert

Vol. 144 Nos. 1–2

Articles

Knowledge, action, and the frame problem

RB Scherl and HJ Levesque

Lessons from a failure: Generating tailored smoking cessation letters
E Reiter, R Robertson and LM Osman

A relevance restriction strategy for automated deduction
DA Plaisted and A Yahya

Qualitative simulation of temporal concurrent processes using Time Interval Petri Nets
V Bulitko and DC Wilkins

On market-inspired approaches to propositional satisfiability
WE Walsh, M Yokoo, K Hirayama and MP Wellman

A logic programming approach to knowledge-state planning, II: The DLVK system
T Eiter, W Faber, N Leone, G Pfeifer and A Polleres

Robustness of regional matching scheme over global matching scheme
L Chen and N Tokuda

Evaluating the effect of semi-normality on the expressiveness of defaults
T Janhunen

Developing reproducible and comprehensible computational models
PCR Lane and F Gobet

Vol. 145 Nos. 1–2
Articles

Multiobjective heuristic state-space planning
I Refanidis and I Vlahavas

BOB: Improved winner determination in combinatorial auctions and generalizations
T Sandholm and S Suri

Towards an analytic framework for analysing the computation time of evolutionary algorithms
J He and X Yao

Backjumping for Quantified Boolean Logic satisfiability
E Giunchiglia, M Narizzano and A Tacchella

Region Connection Calculus: Its models and composition table
SJ Li and MS Ying

Multiple agent-based autonomy for satellite constellations
T Schetter, M Campbell and D Surka

Diagram processing: Computing with diagrams
M Anderson and R McCartney

Establishing motion correspondence using extended temporal scope
CJ Veenman, MJT Reinders and E Backer

Artificial Intelligence Review

Vol. 19 No. 1
Articles

Agent-based simulation in the study of social dilemmas
NM Gotts, JG Polhill and ANR Law

Maximum consistency of incomplete data via non-invasive imputation
G Gediga and I Duntsch

Vol. 19 No. 2
Articles

Sexual selection for genetic algorithms
KS Goh, A Lim and B Rodrigues

Knowledge discovery from decision tables by the use of multiple-valued logic
KJ Adams, DA Bell, LP Maguire and J McGregor

Application of an expert system on the fracture mechanics of concrete
A Kazaz

Vol. 19 No. 3
Articles

Information compression by multiple alignment, unification and search as a unifying principle in computing and cognition
JG Wolff

A tabu-based exploratory evolutionary algorithm for multiobjective optimization
KC Tan, EF Khor, TH Lee and YJ Yang

Vol. 19 No. 4
Articles

Interactive visual user interfaces: A survey
F Murtagh, T Taskaya, P Contreras, J Mothe and K Englmeier

A taxonomy of recommender agents on the Internet
M Montaner, B Lopez and JL de la Rosa

Engineering Applications of Artificial Intelligence

Vol. 15 No. 5
Articles

A fuzzy model for an anaerobic digester, comparison with experimental results
M Polit, M Estabén and P Labat

Intelligent control of exit temperature in a gas-fuel can-type combustor
CA Hsuan and RS Chen

Fuzzy control of robot manipulators: some issues on design and rule base size reduction
H Bezine, N Derbel and AM Alimi

Genetic algorithms optimized fuzzy controller for the indoor environmental management in buildings implemented using PLC and local operating networks
D Kolokotsa, GS Stavrakakis, K Kalaitzakis and D Agoris

Parameter estimation of three-winding transformers using genetic algorithm
SH Thilagar and GS Rao

Application of genetic algorithms to conceptual design of a

micro-air vehicle
TTH Ng and GSB Leng

A hybrid genetic algorithm approach on multi-objective of assembly planning problem
RS Chen, KY Lu and SC Yu

A short-term temperature forecaster based on a state space neural network
PAG Lanza and JMZ Cosme

Implementation of an intelligent digital switchboard system
JH Lee and SB Lee

Robust position control of a transportation carriage directly driven by linear motor using wavelet neural
NC Shieh, CT Chang, CL Lin and HY Jan

A simulated evolution approach to task matching and scheduling in heterogeneous computing environments
H Barada, SM Sait and N Baig

Case-functional-based diagnostic system (CFDS)
AH Mohamed, FA Mohamed, AM Nassar and MH El-Fouly

Expert Systems With Applications

Vol. 24 No. 2

Articles

Preface – Intelligent electronic commerce

GS Jo and YM Chae

Ontology-based description of functional design knowledge and its use in a functional way server

Y Kitamura and R Mizoguchi

Analysis of healthcare quality indicator using data mining and decision support system

YM Chae, HS Kim, KC Tark, HJ Park and SH Ho

Reuse in KBS: a components approach

M Oussalah

MoCAAS: auction agent system using a collaborative mobile agent in electronic commerce

KY Lee, JS Yun and GS Jo

Automated extraction of hierarchical decision rules from clinical databases using rough set model

S Tsumoto

What makes expert systems survive over 10 years – empirical evaluation of several engineering applications

JK Nurminen, O Karonen and K Hatonen

XDSearch: an efficient search engine for XML document schemata

EJL Lu and YM Jung

Design of an intelligent supplier relationship management system: a hybrid case based neural network approach

KL Choy, WB Lee and V Lo

A knowledge-based system to improve the quality and efficiency of titanium melting

EW Stein, MC Pauster and D May

Vol. 24 No. 3

Articles

TIREDDX: an integrated intelligent defects diagnostic system for tire production and service

MG Abou-Ali and M Khamis

Ore-age: a hybrid system for assisting and teaching mining method selection

C Guray, N Celebi, V Atalay and AG Pasamehmetoglu

Computer systems to facilitating organizational learning: IT and organizational context

SW Chou

BESTCOMP: expert system for Sri Lankan solid waste composting

LC Jayawardhana, A Manipura, A Do-Alwis, M Ranasinghe, S Pilapitiya and I Abeygunawardena

Exploring artificial intelligence-based data fusion for conjoint analysis

S Cho, S Baek and JS Kim

Knowledge strategy planning: methodology and case

YG Kim, SH Yu and JH Lee

Vol. 24 No. 4

Articles

An intelligent system for the detection and interpretation of sleep apneas

M Cabrero-Canosa, M Castro-Pereiro, M Grana-Ramos, E Hernandez-Pereira, V Moret-Bonillo, M Martin-Egana and H Vereza-Hernando

Empirical comparison of fast partitioning-based clustering algorithms for large data sets

CP Wei, YH Lee and CM Hsu

An interactive agent-based system for concept-based web search

WP Lee and TC Tsai

Meta web service: building web-based open decision support system based on web services

OB Kwon

Using situation calculus for -e-business agents

CC Albrecht, DD Dean and JV Hansen

A recommendation mechanism for contextualized mobile advertising

ST Yuan and YW Tsao

Expert tutoring system for teaching mechanical engineering

R Tucho, JM Sierra, JE Fernandez, R Vijande and G Moris

An expert system for real-time fault diagnosis of complex chemical processes

Y Qian, XX Li, YR Jiang and YQ Wen

Credit scoring and rejected instances reassigning through evolutionary computation techniques

MC Chen and SH Huang

Development of a knowledge-based self-assessment system for measuring organisational performance

KS Chin, KF Pun and H Lau

A multi-perspective knowledge-based system for customer service management

CF Cheung, WB Lee, WM Wang, KF Chu and S To

A cognitive map simulation approach to adjusting the design factors of the electronic commerce web sites

KC Lee and S Lee

IEEE Transactions on Knowledge and Data Engineering

Vol. 15 No. 2

Articles

Termination and confluence by rule prioritization

S Comai and L Tanca

Uniform techniques for deriving similarities of objects and subschemes in heterogeneous databases

L Palopoli, D Sacca, G Terracina and D Ursino

Object-based directional query processing in spatial databases

X Liu, S Shekhar and S Chawla

Toward an accurate analysis of range queries on spatial data

N An, J Jin and A Sivasubramaniam

Mining optimized gain rules for numeric attributes

S Brin, R Rastogi and K Shim

A new temporal pattern identification method for characterization and prediction of complex time series events

RJ Pavinelli and X Feng

Synthesizing high-frequency rules from different data sources

XD Wu and SC Zhang

Binding propagation techniques for the optimization of bound disjunctive queries

S Greco

Static analysis of logical languages with deferred update semantics

B Catania and E Bertino

Model and algorithm for efficient verification of high-assurance properties of real-time systems

JJP Tsai, EYT Juan and A Sahay

Detecting and representing relevant Web deltas in WHOWEDA

SS Bhowmick, SK Madria and WK Ng

Determining semantic similarity among entity classes from different ontologies

MA Rodriguez and MJ Egenhofer

Fuzzy rule base systems verification using high-level Petri nets

SJH Yang, JJP Tsai and CC Chen

Performance analysis of location-dependent cache invalidation schemes for mobile environments

JL Xu, XY Tang and DL Lee

Symbolic user-defined periodicity in temporal relational databases
P Terenziani

Converting a fuzzy data model to an object-oriented design for managing GIS data files
G Vert, A Morris and M Stock

IEEE Transactions on Neural Networks

Vol. 14 No. 1

Articles

- A novel training scheme for multilayered perceptrons to realize proper generalization and incremental learning
D Chakraborty and NR Pal
- A self-organizing HCMAC neural-network classifier
HM Lee, CM Chen and YF Lu
- A neural-network packet switch controller: Scalability, performance, and network optimization
KJ Symington, AJ Waddie, MR Taghizadeh and JE Snowdon
- Absolute exponential stability of a class of continuous-time recurrent neural networks
SQ Hu and J Wang
- An unsupervised probabilistic net for health inequalities analysis
ZR Yang and RG Harrison
- The self-trapping attractor neural network – Part I: Analysis of a simple 1-D model
R Pavloski and M Karimi
- A reinforcement discrete neuro-adaptive control for unknown piezoelectric actuator systems with dominant hysteresis
CL Hwang and C Jan
- Tuning of the structure and parameters of a neural network using an improved genetic algorithm
FHF Leung, HK Lam, SH Ling and PKS Tam
- Soft learning vector quantization and clustering algorithms based on non-Euclidean norms: Multinorm algorithms
NB Karayiannis and MM Randolph-Gips
- Robust output feedback control of nonlinear stochastic systems using neural networks
S Battilotti and A De Santis
- Face recognition using kernel direct discriminant analysis algorithms
JW Lu, KN Plataniotis and AN Venetsanopoulos
- Fast minimization of structural risk by nearest neighbor rule
B Karacali and H Krim
- A neural-network appearance-based 3-D object recognition using independent component analysis
HS Sahambi and K Khorasani
- An adaptable neural-network model for recursive nonlinear traffic prediction, and modeling of MPEG video sources
AD Doulamis, ND Doulamis and SD Kollias
- Neural networks for blind-source separation of Stromboli explosion quakes.
F Acernese, A Ciaramella, S De Martino, R De Rosa, M Falanga and R Tagliaferri
- Implementation issues of neuro-fuzzy hardware: Going toward HW/SW codesign
LM Reyneri
- Face recognition using LDA-based algorithms
JW Lu, KN Plataniotis and AN Venetsanopoulos
- Stability analysis of neural-network interconnected systems
HD Hwang and FH Hsiao
- Content-based audio classification and retrieval by support vector machines
GD Guo and SZ Li
- A new approach to perceptron training
C Eitzinger and H Plach
- Asymptotic stability criteria for a two-neuron network with different time delays
XF Liao, KW Wong and ZF Wu
- Nonlinear blind source separation using kernels
D Martinez and A Bray

A new digital pulse-mode neuron with adjustable activation function

H Hikawa

Computing with phase locked loops: Choosing gains and delays

JRC Piqueira, FM Orsatti and LHA Monteiro

Vol. 14 No. 2

Articles

- Backpropagation of pseudoerrors: Neural networks that are adaptive to heterogeneous noise
ADA Ding and XL He
- A new class of quasi-Newtonian methods for optimal learning in MLP-networks
A Bortoletti, C Di Fiore, S Fanelli and P Zellini
- Learning capability and storage capacity of two-hidden-layer feedforward networks
GB Huang
- Lattice algebra approach to single-neuron computation
GX Ritter and G Urcid
- Empirical risk minimization for support vector classifiers
F Perez-Cruz, A Navia-Vazquez, AR Figueiras-Vidal and A Artes-Rodriguez
- A recurrent log-linearized Gaussian mixture network
T Tsuji, N Bu, O Fukuda and M Kaneko
- Oscillatory neural networks for robotic yo-yo control
HL Jin and M Zacksenhouse
- Training integrate-and-fire neurons with the Informax principle II
JF Feng, YL Sun, H Buxton and G Wei
- Learning polynomial feedforward neural networks by genetic programming and backpropagation
NY Nikolaev and H Iba
- Neural-network hybrid control for antilock braking systems
CM Lin and CF Hsu
- Adaptive inverse control of linear and nonlinear systems using dynamic neural networks
GL Plett
- Neural-network predictive control for nonlinear dynamic systems with time delay
JQ Huang and FL Lewis
- Soft nearest prototype classification
S Seo, M Bode and K Obermayer
- Blind signal processing by complex domain adaptive spline neural networks
A Uncini and F Piazza
- An extended ASLD trading system to enhance portfolio management
KK Hung, YM Cheung and L Xu
- Exponential stability of globally projected dynamic systems
XB Gao
- A parameter optimization method for radial basis function type models
H Peng, T Ozaki, V Haggan-Ozaki and Y Toyoda
- Temporal album
E Vasilaki, JF Feng and H Buxton
- Learning exponential state-growth languages by hill climbing
W Tabor
- A support vector machine formulation to PCA analysis and its kernel version
JAK Suykens, T Van Gestel, J Vandewalle and B De Moor
- On the capability of accommodating new classes within probabilistic neural networks
T Hoya

A robust nonlinear identification algorithm using PRESS
statistic and forward regression
X Hong, PM Sharkey and K Warwick

Predicting drug dissolution profiles with an ensemble of
boosted neural networks: A time series approach
WY Goh, CP Lim and KK Peh

IEEE Transactions on Pattern Analysis and Machine Intelligence

Vol. 25 No. 2

Articles

- Camera calibration from surfaces of revolution
KYK Wong, PRS Mendonca and R Cipolla
- Bayesian grid matching
K Hartelius and JM Carstensen
- A coarse-to-fine deformable contour optimization
framework
YS Akgul and C Kambhamettu
- A global solution to sparse correspondence problems
J Maciel and JP Costeira
- Visual identification by signature tracking
ME Munich and P Perona
- Lambertian reflectance and linear subspaces
R Basri and DW Jacobs
- Moment forms invariant to rotation and blur in arbitrary
number of dimensions
J Flusser, J Boldys and B Zitova
- Incorporating illumination constraints in deformable
models for shape from shading and light direction
estimation
D Samaras and D Metaxas
- A linear time algorithm for computing exact Euclidean
distance transforms of binary images in arbitrary
dimensions
CR Maurer, RS Qi and V Raghavan
- Feature transfer and matching in disparate stereo views
through the use of plane homographies
*MIA Lourakis, SV Tzurbakis, AA Argyros and SC
Orphanoudakis*
- Handwritten Chinese radical recognition using nonlinear
active shape models
D Shi, SR Gunn and RI Dampier
- An algorithm for data-driven bandwidth selection
D Comaniciu

Vol. 25 No. 3

Articles

- Editorial – State of the transactions
R Chellappa and DJ Kriegman
- Illumination from shadows
I Sato, Y Sato and K Ikeuchi
- Outlier modeling in image matching
D Hasler, L Sbaiz, S Susstrunk and M Vetterli
- Graphical Gaussian shape models and their application to
image segmentation
A Neumann
- Watersnakes: Energy-driven watershed segmentation
HT Nguyen, M Worring and R van den Boomgaard
- A morphologically optimal strategy for classifier
combination: Multiple expert fusion as a tomographic
process
D Windridge and J Kittler
- IMPSAC: Synthesis of importance sampling and random
sample consensus
PHS Torr and C Davidson
- Reconstruction of partially damaged face images based on
a morphable face model
BW Hwang and SW Lee
- Unsupervised feature selection applied to content-based
retrieval of lung images
JG Dy, CE Brodley, A Kak, LS Broderick and AM Aisen
- Frame-rate spatial referencing based on invariant indexing
and alignment with application to online retinal image
registration
*H Shen, CV Stewart, B Roysam, G Lin and HL
Tanenbaum*

Vol. 25 No. 4

Articles

- Guest editors' introduction to the special section on
perceptual organization in computer vision
DW Jacobs and M Lindenbaum
- Sketches with curvature: The curve indicator random field
and Markov processes
J August and SW Zucker
- The perceptual organization of texture flow: A contextual
inference approach
O Ben Shohar and SW Zucker
- Noncombinatorial detection of regular repetitions under
perspective skew
T Tuytelaars, A Turina and L Van Gool
- Segmentation of multiple salient closed contours from real
images
S Mahamud, LR Williams, KK Thornber and KL Xu
- Design considerations for generic grouping in vision
EA Engbers and AWM Smeulders
- A common set of perceptual observables for grouping,
figure-ground discrimination, and texture classification
A Hoogs, R Collins, R Kaucic and J Mundy
- Finding perceptually closed paths in sketches and drawings
E Saund
- Layered 4D representation and voting for grouping from
motion
M Nicolescu and G Medioni
- Vanishing point detection without any a priori information
A Almansa, A Desolneux and S Vamech
- A grouping principle and four applications
A Desolneux, L Moisan and JM Morel
- Path-based clustering for grouping of smooth curves and
texture segmentation
B Fischer and JM Buhmann
- Hidden tree Markov models for document image
classification
M Diligenti, P Frasconi and M Gori
- A pattern reordering approach based on ambiguity
detection for online category learning
E Granger, Y Savaria and P Lavoie

Vol. 25 No. 5

Articles

- Properties of embedding methods for similarity searching
in metric spaces
GR Hjaltason and H Samet
- A general discrete contour model in two, three, and four
dimensions for topology-adaptive multichannel
segmentation
J Bredno, TM Lehmann and K Spitzer
- Kernel-based object tracking
D Comaniciu, V Ramesh and P Meer
- Linear pose estimation from points or lines
A Ansar and K Daniilidis
- Log-polar wavelet energy signatures for rotation and scale
invariant texture classification
CM Pun and MC Lee
- Effective tracking through tree-search
D Freedman
- Fingerprint indexing based on novel features of minutiae
triplets
B Bhanu and XJ Tan
- Constructing descriptive and discriminative nonlinear
features: Rayleigh coefficients in kernel feature spaces
*S Mika, G Ratsch, J Weston, B Scholkopf, A Smola and
KR Muller*

Automatic textual document categorization based on generalized instance sets and a metamodel
W Lam and YQ Han

Pairwise Markov chains
W Pieczynski

IEEE Transactions on Robotics and Automation

Vol. 19 No. 1

Articles

On the role of process models in autonomous land vehicle navigation systems

SJ Julier and HF Durrant-Whyte

Autonomous vehicle positioning with GPS in urban canyon environments

YJ Cui and SZS Ge

Polyhedral contact formation modeling and identification for autonomous compliant motion

T Lefebvre, H Bruyninckx and J De Schutter

Jerk-bounded manipulator trajectory planning: Design for real-time applications

S Macfarlane and EA Croft

Nonholonomic navigation and control of cooperating mobile manipulators

HG Tanner, SG Loizou and KJ Kyriakopoulos

Numerical optimization on the Euclidean group with applications to camera calibration

S Gwak, J Kim and FC Park

An assembly-oriented product family representation for integrated design

P De-Lit, J Danloy, A Delchambre and JM Henrioud

Resequencing and feature assignment on an automated assembly line

M Lahmar, H Ergan and S Benjaafar

Stabilization of multi-inventory systems with uncertain demand and setups

F Blanchini, S Miani, R Pesenti and F Rinaldi

Partner selection and synchronized planning in dynamic manufacturing networks

N Viswanadham and RS Gaonkar

A control switching theory for supervisory control of discrete event systems

H Darabi, MA Jafari and AL Buczak

Design of a live and maximally permissive Petri net controller using the theory of regions

GhaffariA, N Rezg and XL Xie

Stable fault adaptation in distributed control of heterarchical manufacturing job shops

VV Prabhu

Optimization of cyclic production systems: A heuristic approach

F Chauvet, JW Herrmann and JM Proth

On computing three-finger force-closure grasps of 2-D and 3-D objects

JW Li, H Liu and HG Cai

A new on-line algorithm for inverse kinematics of robot manipulators ensuring path tracking capability under joint limits

G Antonelli, S Chiaverini and G Fusco

Obstacle avoidance of manipulator's with rate constraints

T Sugie, K Fujimoto and Y Kito

Robust adaptive motion/force tracking control of uncertain

nonholonomic mechanical systems

M Oya, CY Su and R Katoh

Vol. 19 No. 2

Articles

Independent finger and independent joint-based compliance control of multifingered robot hands

BH Kim, BJ Yi, SR Oh and IH Suh

A comparison study of two 3-DOF parallel manipulators: One with three and the other with four supporting legs

S Joshi and LW Tsai

A human-assisting manipulator teleoperated by EMG signals and arm motions

O Fukuda, T Tsuji, M Kaneko and A Otsuka

Motion planning of multiple mobile robots for cooperative manipulation and transportation

A Yamashita, T Arai, J Ota and H Asama

Simultaneous localization and map building for a team of cooperating robots: A set membership approach

M Di Marco, A Garulli, A Giannitrapani and A Vicino

Path planning with uncalibrated stereo rig for image-based visual servoing under large pose discrepancy

JS Park and MJ Chung

Automatic recalibration of an active structured light vision system

YF Li and SY Chen

Magnetometer and differential carrier phase GPS-aided INS for advanced vehicle control

YC Yang and JA Farrell

Self-adaptive recurrent neuro-fuzzy control of an autonomous underwater vehicle

JS Wang and CSG Lee

State space modeling of dimensional variation propagation in multistage machining process using differential motion vectors

SY Zhou, Q Huang and JJ Shi

Diagnosis of repeated/intermittent failures in discrete event systems

SB Jiang, R Kumar and HE Garcia

An integrated approach for product family and assembly system design

P De Lit, A Delchambre and JM Henrioud

Price-based approach for activity coordination in a supply network

PB Luh, M Ni, HX Chen and LS Thakur

Cobot implementation of virtual paths and 3-D virtual surfaces

CA Moore, MA Peshkin and JE Colgate

Robust scene reconstruction from an omnidirectional vision system

R Bunschoten and B Krose

Forward model for sonar maps produced with the polaroid ranging module

R Kuc

Time-scaling control for an underactuated biped robot

C Chevallereau

International Journal of Computer Vision

Vol. 52 Nos. 2-3

Special issue on scale-space and morphology

Editorial

M Kerckhove

Feature-based image analysis

M Lillholm, M Nielsen and LD Griffin

A distance measure and a feature likelihood map concept for scale-invariant model matching

I Laptev and T Lindeberg

Algebraic and PDE approaches for lattice scale-spaces with global constraints

P Maragos

Adjunctions in pyramids, curve evolution and scale-spaces

R Keshet and HJAM Heijmans

A note on two classical enhancement filters and their associated PDE's

F Guichard and JM Morel

The Vector Distance Functions
J Gomes and O Faugeras
 Selection of optimal stopping time for nonlinear diffusion filtering
P Mrazek and M Navara
Vol. 53 No. 1
Articles
 Modeling visual patterns by integrating descriptive and generative methods
CE Guo, SC Zhu and YN Wu

Stereoscopic segmentation
A Yezzi and S Soatto
 DREAM(2)S: Deformable Regions driven by an Eulerian Accurate Minimization Method for image and video Segmentation
S Jehan-Besson, M Barlaud and G Aubert
 Constructing facial identity surfaces for recognition
YM Li, SG Gong and H Liddell
 Calibrated, registered images of an extended urban area
S Teller, M Antone, Z Bodnar, M Bosse, S Coorg, M Jethwa and N Master

International Journal of Intelligent Systems

Vol. 18 No. 2
Articles
 Probabilistic graphical models
JA Gamez and A Salmeron
 Triangulation of Bayesian networks by retriangulation
MJ Flores and JA Gamez
 Efficient computation for the noisy MAX
FJ Diez and SF Galan
 Modularizing inference in large causal probabilistic networks
KG Olesen, S Andreassen and M Suojanen
 Novel strategies to approximate probability trees in penniless propagation
A Cano, S Moral and A Salmeron
 Learning Bayesian networks in the space of structures by estimation of distribution algorithms
R Blanco, I Inza and P Larranga
 An iterated local search algorithm for learning Bayesian networks with restarts based on conditional independence tests
LM de Campos, JM Fernandez-Luna and JM Puerta
 Qualitative combination of Bayesian networks
J del Sagrado and S Moral
 An information retrieval model based on simple Bayesian networks
S Acid, LM de Campos, JM Fernandez-Luna and JF Huete
 Complexity of decision-theoretic troubleshooting
M Vomlelova

Vol. 18 No. 3
Articles
 Cooperative management of a net of intelligent surveillance agent sensors
JMM Lopez, JG Herrero, FJJ Rodriguez and JRC Corredera
 A taxonomy for the crossover operator for real-coded genetic algorithms: An experimental study
F Herrera, M Lozano and AM Sanchez
 Emergence of self-learning fuzzy systems by a new virus DNA-based evolutionary algorithm
LH Ren, YS Ding, H Ying and SH Shao
 Representation of the subjective evaluation of the fabric hand using fuzzy techniques
XY Zeng and L Koehl
Vol. 18 No. 4
Articles
 A logical foundation for the case-based reasoning cycle
G Finnie and ZH Sun
 From information to probability: An-axiomatic approach-inference is information processing
W Rodder and G Kern-Isberner
 Clustering with artificial neural networks and traditional techniques
G Tambouratzis, T Tambouratzis and D Tambouratzis
 Toward a comprehensive treatment of temporal constraints about periodic events
P Terenziani
 Majority additive-ordered weighting averaging: A new neat ordered weighting averaging operator based on the majority process
JI Pelaez and JM Dona

International Journal of Software Engineering and Knowledge Engineering

Vol. 12 No. 6
Special issue: Best papers from SEKE 2001
 Guest editors' introduction
O Dieste and AM Moreno
 Supporting agent-oriented modelling with UML
F Bergenti and A Poggi
 A methodology for modeling interactions in cooperative information systems using coloured petri nets
F Ramos-Quintana, J Frausto-Solis and F Camargo-Santacruz
 Defect detection for executable specifications – An

experiment
F Houdek, T Schwinn and D Ernst
 What information is relevant when selecting software testing techniques?
S Vegas, N Juristo and V Basili
 Bayesian-learning based guidelines to determine equivalent mutants
AMR Vincenzi, EY Nakagawaa, JC Maldonado, ME Delamaro and RAF Romero
 Automatic test data generation for program paths using genetic algorithms
PMS Bueno and M Jino

Journal of Intelligent & Robotic Systems

Vol. 36 No. 2
Articles
 Analytic path planning algorithms for bipedal robots without a trunk
A Albert and W Gerth

Self-adaptive output tracking with applications to active binocular tracking
S Kumarawadu, K Watanabe, K Kiguchi and K Izumi

Destination driven motion planning via obstacle motion prediction and multi-state path repair

HM Yu and T Su

An assembly process modeling and analysis for robotic multiple peg-in-hole

YQ Fei and XF Zhao

Robotic welding systems with vision-sensing and self-learning neuron control of arc welding dynamic process

SB Chen, Y Zhang, T Qiu and T Lin

A fuzzy inference network model for search strategy using neural logic network

MR Lee and JW Lee

A learning control for a class of linear time varying systems using double differential of error

M Arif, T Ishihara and H Inooka

Vol. 36 No. 3

Articles

A modular scheme for controller design and performance

evaluation in 3D visual servoing

M Bachiller, JA Cerrada and C Cerrada

A robust control law with estimated perturbation compensation for robot manipulators

SP Chan

Open-loop velocity control of concrete floor finishing robots

DH Shin and DH Han

Variable structure control of a differentially steered wheeled mobile robot

YL Zhang, JH Chung and SA Velinsky

Application of joint error mutual compensation for robot end-effector pose accuracy improvement

Y Veryha and J Kurek

Model-reference fuzzy adaptive control as a framework for nonlinear system control

I Skrjanc, S Blazic and D Matko

Journal of Intelligent Manufacturing

Vol. 14 No. 1

Articles

Editorial

Z Banaszak and MB Zaremba

Modeling and reconfiguring intelligent holonic manufacturing systems with Internet-based mobile agents

M Fletcher, RW Brennan and DH Norrie

Integration and control of intelligence in distributed manufacturing

MB Zaremba and G Morel

Benchmarking the performance of manufacturing control systems: design principles for a web-based simulated testbed

S Cavaliere, M Macchi and P Valckenaers

From remote maintenance to MAS-based e-maintenance of an industrial process

B Lung

Computer-aided prototyping of production flows for a virtual enterprise

Z Banaszak, B Skolud and MB Zaremba

Minimizing cycle time and group scheduling, using Petri nets a study of heuristic methods

I Kattan, B Mikolajczak, K Kattan and B Alqassar

Verification of distributed control systems in intelligent manufacturing

V Vyatkin and HM Hanisch

Deadlock avoidance in flexible flow shops with loops

P Valckenaers and H Van Brussel

Vol. 14 No. 2

Articles

Untitled

TW Liao and E Triantaphyllou

Interactive evolutionary solution synthesis in fuzzy set-based preliminary engineering design

JC Wang and J Terpenny

Development of a fuzzy decision model for manufacturability evaluation

BC Jiang and CH Hsu

Fuzzy neural networks for intelligent design retrieval using associative manufacturing features

CY Tsai and CA Chang

A Tabu-enhanced genetic algorithm approach for assembly process planning

JR Li, LP Khoo and SB Tor

A genetic algorithm approach for the cutting stock problem

GC Onwubolu and M Mutingi

Estimation of shrinkage for near net-shape using a neural network approach

A Konak, S Kulturel-Konak, AE Smith and I Nettlehip

Optimizing the IC wire bonding process using a neural networks/genetic algorithms approach

CT Su and TL Chiang

Intelligent remote monitoring and diagnosis of manufacturing processes using an integrated approach of neural networks and rough sets

TH Hou, WL Liu and L Lin

Intelligent adaptive control of bioreactors

R Babuska, MR Damen, C Hellinga and H Maarleveld

Journal of Symbolic Computation

Vol. 35 No. 1

Articles

Computing characteristic classes of projective schemes

P Aluffi

Deciding the guarded fragments by resolution

H de Nivelle, M de Rijke

Computation and homotopical applications of induced crossed modules

R Brown and CD Wensley

Vol. 35 No. 2

Articles

Effective use of Boolean satisfiability procedures in the formal verification of superscalar and VLIW microprocessors

MN Velev and RE Bryant

Computing left Kan extensions

MR Bush, M Leeming and RE Walters

A database of categories

M Fleming, R Gunther and R Rosebrugh

Implementing finite structures in Mathematica via a skeletal topos of finite sets

SB Niefield

The term orderings which are compatible with composition II

JW Liu, ZJ Liu and MS Wang

A result on braids via the investigation of a rewriting system

S Burckel

On the Grobner bases of some symmetric systems and their application to coding theory

T Mora and M Sala

Constructive recognition of classical groups in their natural representation

PA Brooksbank

Vol. 35 No. 3**Articles**

Automorphism group computation and isomorphism testing in finite groups

JJ Cannon and DF Holt

An algorithm to compute the set of characteristics of a system of polynomial equations over the integers

R Baines and P Vamos

An elementary approach to subresultants theory

M El-Kahoui

A new elementary algorithm for proving q-hypergeometric identities

BY Zhang

Distributed Maple: parallel computer algebra in networked environments

W Schreiner, C Mittermaier and K Bosa

qMultiSum – a package for proving q-hypergeometric multiple summation identities

A Riese

Knowledge-Based Systems**Vol. 16 No. 3****Articles**

Combining symbolic classifiers from multiple inducers

JA Baranauskas and MC Monard

Discovering fuzzy association rules using fuzzy partition methods

YC Hu, RS Chen and GH Tzeng

Knowledge-based process management – an approach to handling adaptive workflow

PWH Chung, L Cheung, J Stader, P Jarvis, J Moore and A Macintosh

An intelligent system for tuning magnetic field of a cathode ray tube deflection yoke

A Verikas, M Bacauskiene, A Dosinas, V Bartkevicius, A Gelzinis, M Vaitkunas and A Lipnickas

Knowledge base management systems-tools for creating verified intelligent systems

RC Hicks

An advanced integrated expert system for wastewater treatment plants control: an addendum (vol 16, pg 173, 2003)

PA Paraskevas, IS Pantelakis and TD Lekkas

Kybernetes**Vol. 32 Nos. 1–2****Special issue: Artificial life**

Editorial

BH Rudall

Artificial life software

A Adamatzky

StarLogo under the hood and in the classroom

E Klopfer and A Begel

Exploring self organized emergence in an agent-based synthetic warfare lab

A Ilachinski

Discrete dynamics lab: tools for investigating cellular automata and discrete dynamical networks

A Wuensche

Exploring cellular automata with MCell

M Wojtowicz

On wonder land betrayal: creating artificial life software to meet aesthetic goals

A Dorin

Aesthetic selection of morphogenetic art forms

D Thomas

The Framsticks system: versatile simulator of 3D agents and their evolution

M Komosinski

Nerve garden: germinating biological metaphors in net-based virtual worlds

B Damer, K Marcelo and F Revi

Evolving sonic ecosystems

J McCormack

Simulated breeding – a framework of breeding artifacts on the computer

T Unemi

