

From the journals...

AI Magazine

Vol. 29, No. 1

Introduction to the special issue on innovative applications of artificial intelligence 7
W. Cheetham and M. H. Goker

Articles

Coordinating hundreds of cooperative, autonomous vehicles in warehouses 9

P. R. Wurman, R. D'Andrea and M. Mountz

Fish inspection system using a parallel neural network chip and the image knowledge builder application 21

A. Menendez and G. Paillet

Intelligent content discovery on the mobile Internet: experiences and lessons learned 29

B. Smyth, P. Cotter and S. Oman

Custom DU: a Web-based business user-driven automated underwriting system 41

S. Krovvidy

An AI framework for the automatic assessment of e-government forms 52

A. H. W. Chun

Enabling scientific research using an interdisciplinary virtual observatory: the virtual solar-terrestrial observatory example 65

D. L. McGuinness, P. Fox, L. Cinquini, P. West, J. Garcia, J. L. Benedict and D. Middleton

A Web-based agent challenges human experts on crosswords 77

M. Ernandes, G. Angelini and M. Gori

The AAAI video archive 91

B. G. Buchanan, R. G. Smith and J. Glick

Report on the Eighteenth International Workshop on Principles of Diagnosis (DX-07) 95

G. Biswas and X. Koutsoukos

Report on the 2007 Workshop on Modeling and Reasoning in Context 97

A. Kofod-Petersen, J. Cassens, D. B. Leake and S. Schulz

AAAI Fall Symposium Reports 99

J. Ball, C. Arney, S. G. Collins, M. Marcus,

S. Nirenburg, A. Chella, K. Goebel, J. H. Li,

M. Lyell, B. Magerko, R. Manzotti, C. T. Morrison,

T. Oates, M. Riedl, G. P. Trajkovski, W. Truszkowski and S. Uckun

Vol. 29, No. 2

Articles

AI magazine poster: the AI landscape 3

D. B. Leake and J. Gary

Advancing AI research and applications by learning from what went wrong and why 9

D. G. Shapiro and M. H. Göker

The voice of the turtle: whatever happened to AI? 11

D. B. Lenat

You recommended what? 20

J. Riedl

Electric elves: what went wrong and why 23

M. Tambe

Moving walls 28

M. Schoppers

Beyond the elves: making intelligent agents intelligent 33

C. A. Knoblock, J. L. Ambite, M. J. Carman,

M. Michelson, P. Szekely and R. Tuchinda

Three anecdotes from the DARPA autonomous land vehicle project 40

D. G. Shapiro

Simplicity rather than knowledge 41

W. Bricken

Putting intelligent characters to work 43

B. Hayes-Roth

How inappropriately heavyweight AI solutions dragged down a startup (and made me realize that industrial salaries are high for a good reason) 49

M. Wooldridge

Lessons learned delivering optimized supply chain planning to the business world 51

J. M. Crawford

Often, it's not about the AI 54

N. Jacobstein

Reconstructing true wrong inductions 57

J.-G. G. Ganascia

Learning from noise 62

M. E. Mueller

A self-help guide for autonomous systems 67

M. L. Anderson, S. Fuhs, D. P. Josyula, T. Oates,

D. Perlis, S. Wilson and D. Wright

A too-clever ranking method 74

T. Oates

The Third International Conference on Human–Robot Interaction 77

T. Fong, K. Dautenhahn, M. Scheutz and

Y. Demiris

Vol. 29, No. 3

Introduction to the special issue on AI and networks 11

M. des Jardins, M. E. Gaston and D. R. Radev

Articles

Networks and natural language processing 16

D. R. Radev and R. Mihalcea

The fractal nature of the Semantic Web 29

T. Berners-Lee and L. Kagal

Intelligent peer networks for collaborative Web search 35

F. Menczer, L.-S. Wu and R. Akavipat

Solving multiagent networks using distributed constraint optimization 47

J. P. Pearce, M. Tambe and R. Maheswaran

The age of analog networks 63

C. Mattiussi, D. Marbach, P. Dürr and D. Floreano

The information ecology of social media and online communities 77

T. Finin, A. Joshi, P. Kolari, A. Java, A. Kale and

A. Karandikar

Collective classification in network data 93

P. Sen, G. Namata, M. Bilgic, L. Getoor, B. Galligher

and T. Eliassi-Rad

AAAI 2008 Spring Symposia Reports 107

M. Balduccini, C. Baral, B. Brodaric, S. Colton,

P. Fox, D. Gutelius, K. Hinkelmann, I. Horswill,

B. Huberman, E. Hudlicka, K. Lerman, C. Lisetti,

D. L. McGuinness, M. L. Maher, M. A. Musen,

M. Sahami, D. Sleeman, B. Thönssen, J. D. Velasquez

and D. Ventura

The Seventeenth International Conference on Automated Planning and Scheduling (ICAPS-07)

M. Boddy, M. Fox and S. Thiébaux

Annals of Mathematics and Artificial Intelligence

Vol. 52, No. 1

Articles

Recognition of interval Boolean functions 1–24

O. Cepek, D. Kronus and P. Kucera

Comparing the notions of optimality in CP-nets, strategic games and soft constraints 25–54

K. R. Apt, F. Rossi and K. B. Venable

On the complexity of binary samples 55–65

J. Ratsaby

Convergence analysis of convex incremental neural networks 67–80

L. Chen and H. K. Pung

Set based logic programming 81–105

H. A. Blair, V. W. Marek and J. B. Remmel

Vol. 52, Nos. 2–4

Special issue on multi-robot coverage, search, and exploration

Editorial: Annals of mathematics and artificial intelligence 107–108

G. A. Kaminka and A. Shapiro

Articles

Efficient boustrophedon multi-robot coverage: an algorithmic approach 109–142

I. M. Rekleitis, A. P. New, E. S. Rankin and H. Choset

The giving tree: constructing trees for efficient offline and online multi-robot coverage 143–168

N. Agmon, N. Hazon and G. A. Kaminka

Classifying the multi robot path finding problem into a quadratic competitive complexity class 169–203

S. Sarid and A. Shapiro

Efficient exploration of unknown indoor environments using a team of mobile robots 205–227

C. Stachniss, Ó. M. Mozos and W. Burgard

Distributed multirobot exploration, mapping, and task allocation 229–255

R. Vincent, D. Fox, J. Ko, K. Konolige, B. Linkeikai, B. Morisset, C. Ortiz, D. Schulz and B. Stewart

A geometric approach to deploying robot swarms 257–280

G. Lee and N. Y. Chong

A framework for multi-robot node coverage in sensor networks 281–305

A. Gasparri, B. Krishnamachari and G. S. Sukhatme

Distributed boundary coverage with a team of networked miniature robots using a robust market-based algorithm 307–333

P. Amstutz, N. Correll and A. Martinoli

Multiple UAV exploration of an unknown region 335–366

P. B. Sujit and R. Beard

Vol. 53, Nos. 1–4

Logic in AI: A special issue dedicated to Victor W. Marek on the occasion of his 65th birthday

Preface 1–3

M. Kaminski and M. Truszczyński

Articles

My work with Victor Marek: a mathematician looks at answer set programming 5–16

J. B. Remmel

My six encounters with Victor Marek: a personal account 17–20

M. Truszczyński

Default logic generalized and simplified 21–49

A. Bochman

Reasoning about temporal properties of rational play 51–114

N. Bulling, W. Jamroga and J. Dix

Exploiting conjunctive queries in description logic programs 115–152

T. Eiter, G. Ianni, T. Krennwallner and R. Schindlauer

Justification logics, logics of knowledge, and conservativity 153–167

M. Fitting

On the relation among answer set solvers 169–204

E. Giunchiglia, N. Leone and M. Maratea

A non-preferential semantics of non-monotonic modal logic 205–223

M. Kaminski

From Hilbert's program to a logic tool box 225–250

J. A. Makowsky

Integrating answer set programming and constraint logic programming 251–287

V. S. Mellarkod, M. Gelfond and Y. Zhang

Consistency properties and set based logic programming 289–311

A. Nerode and J. B. Remmel

Stable models and difference logic 313–329

I. Niemelä

Hyperequivalence of logic programs with respect to supported models 331–365

M. Truszczyński and S. Woltran

Applied Artificial Intelligence

Vol. 22, Nos. 1–2

Introduction to the special issue on applications of grammatical inference 1–3

C. de la Higuera, T. Oates and M. van Zaanen

Articles

On the statistical estimation of stochastic finite-state transducers in machine translation 4–20

J. Andrés-Ferrer, F. Casacuberta and A. Juan-Císcar

Wrapper inference for ambiguous Web pages 21–52

V. Crescenzi and P. Merialdo

Two grammatical inference applications in music processing 53–76

P. P. Cruz-Alcázar and E. Vidal

The QSM algorithm and its application to software behavior model induction 77–115

P. Dupont, B. Lambeau, C. Damas and A. van Lamsweerde

Modeling Web navigation using grammatical inference 116–138

G. Korfiatis and G. Paliouras

Using grammatical inference techniques to learn ontologies that describe the structure of domain instances 139–167

A. L. Martins, H. S. Pinto and A. L. Oliveira

Vol. 22, No. 3

Articles

DECA: the doping-driven evolutionary control algorithm 169–197

P. Spronck, I. G. Sprinkhuizen-Kuyper and E. O. Postma

Comparing ANNs and genetic programming for voice quality assessment post-treatment 198–207

T. Ritchings, C. Berry and W. Sheta

Toward a more global and coherent segmentation of texts 208–234

S. Lamprier, T. Amghar, B. Levrat and F. Saubion

Neural network software sensors design for lysine fermentation process 235–253

P. D. Koprinkova-Hristova and T. D. Patarinska

Learning random numbers: a MATLAB anomaly 254–265

P. Savický and M. Robník-Sikonja

Machine learning techniques for acquiring new knowledge in image tracking 266–282

B. Rodríguez, O. Pérez, J. García and J. M. Molina

Vol. 22, No. 4

Articles

A KST-based system for student tutoring 283–308

G. Pilato, R. Pirrone and R. Rizzo

Unsupervised anomaly detection in large databases using Bayesian networks 309–330

A. Cansado and A. Soto

Collaborative Web agent based on friend network 331–351

B. M. Kim, Q. Li, A. E. Howe and Y. P. Chen

Dynamic modeling of groundwater pollutants with Bayesian networks 352–376

K. Shihab

Vol. 22, No. 5

Articles

A complex case-based advisor 377–406

M. Lourdes Borrajo, R. Laza and J. M. Corchado

Induction from multi-label examples in information retrieval systems: a case study 407–432

K. Sarinnapakorn and M. Kubat

Effectiveness of support vector machine for crime hot-spots prediction 433–458

K. Kianmehr and R. Alhaji

Crawling the construction Web—a machine-learning approach without negative examples 459–482

M. Kovacevic and C. H. Davidson

Urban crime analysis through areal categorized multivariate associations mining 483–499

I. Lee and P. Phillips

Vol. 22, No. 6

Articles

Stereo image processing procedure for vision rehabilitation 501–522

G. Balakrishnan and G. Sainarayanan

Ensemble artificial neural networks for prediction of dew point temperature 523–542

D. B. Shank, R. W. McClendon, J. Paz and G. Hoogenboom

Adaptive machine learning in delayed feedback domains by selective relearning 543–557

M.-C. Ludl, A. Lewandowski and G. Dorffner

Sentiment assessment of text by analyzing linguistic features and contextual valence assignment 558–601

S. M. Al Masum, H. Prendinger and M. Ishizuka

Case-based reasoning for predicting multiperiod financial performances of technology-based SMEs 602–615

T. H. Moon and S. Y. Sohn

Vol. 22, Nos. 7–8

Preface 617–618

F. Emmert-Streib, H. R. Arabnia and M. Qu Yang

Articles

Structural similarities of complex networks: a computational model by example of wiki graphs 619–683

A. Mehler

Information-theoretic concepts for the analysis of complex networks 684–706

M. Dehmer

An unsupervised incremental learning algorithm for domain-specific language development 707–729

F. Javed, M. Mernik, B. R. Bryant and A. P. Sprague

A population Monte Carlo method for generating random matrices with known characteristics 730–748

R. Y. Webb and P. J. Smith

Algorithmic challenges in learning path metrics from observed choices 749–760

A. Faragó

Reinforcement learning for POMDP using state classification 761–779

Le Tien Dung, T. Komeda and M. Takagi

Consensus-based ensembles of soft clusterings 780–810

K. Punera and J. Ghosh

Multi-layer corrective cascade architecture for on-line predictive echo state networks 811–823

R. Y. Webb

A statistical model for expected cycle time of SP-as/RS: an application of Monte Carlo simulation 824–840

M. R. Vasili, S. H. Tang, S. M. Homayouni and N. Ismail

Vol. 22, No. 9

Articles

The construction of a pun generator for language skills development 841–869

R. Manurung, G. Ritchie, H. Pain, A. Waller, D. O'Mara and R. Black

Studying the impact of policy reforms on industrial development in india using self-organizing maps 870–895

S. Mitra

SABIO: a biologically plausible connectionist approach to automatic text summarization 896–920

T. Orrú, J. L. G. Rosa and M. L. De Andrade Netto

Designing road networks for transport planning using evolutionary computation 921–936

M. Pimminghoff, R. Contreras and J. Atkinson

Vol. 22, No. 10

Articles

A replanning algorithm for decision theoretic hierarchical planning: principles and empirical evaluation 937–963

G. Boella and R. Damiano

A personalized tourist trip design algorithm for mobile tourist guides 964–985

W. Souffriau, P. Vansteenwegen, J. Vertommen, G. Vanden Berghe and D. Van Oudheusden

Applied Intelligence

Vol. 28, No. 1

Articles

Asynchronous action-reward learning for nonstationary serial supply chain inventory control 1–16

C. O. Kim, I.-H. Kwon and J.-G. Baek

Automated case creation and management for diagnostic CBR systems 17–28

C. Yang, B. Farley and R. Orchard

An incremental neural learning framework and its application to vehicle diagnostics 29–49

Y. L. Murphey, Z. H. Chen and L. A. Feldkamp

Analysis of quantization effects on high-order function neural networks 51–67

M. Jiang and G. G. E. Gielen

Feature subset selection based on fuzzy entropy measures for handling classification problems 69–82

J.-D. Shie and S.-M. Chen

Learning-enhanced simulated annealing: method, evaluation, and application to lung nodule registration 83–99

S. Sun, F. Zhuge, J. Rosenberg, R. M. Steiner, G. D. Rubin and S. Napel

Vol. 28, No. 2

Articles

A hybrid case adaptation approach for case-based reasoning 101–119

C. A. Policastro, A. C. P. L. F. de Carvalho and A. C. B. Delbem

Behaviour based on decision matrices for a coordination between agents in a urban traffic simulation 121–138

R. Mandiau, A. Champion, J.-M. Auberlet, S. Espié and C. Kolski

- Achieving self-healing in service delivery software systems by means of case-based reasoning 139–152
S. Montani and C. Anglano
- Learning implicit user interest hierarchy for context in personalization 153–166
H. Kim and P. K. Chan
- Approximation-based feature selection and application for algae population estimation 167–181
Q. Shen and R. Jensen
- Evaluating students' answerscripts using vague values 183–193
H.-Y. Wang and S.-M. Chen
- Statistical properties analysis of real world tournament selection in genetic algorithms 195–205
S. Lee, S. Soak, K. Kim, H. Park and M. Jeon
- Vol. 28, No. 3**
Special issue on case-based reasoning in the health sciences 207–209
I. Bichindaritz, S. Montani and L. Portinale
- Articles**
A case-based approach for characterization and analysis of subgroup patterns 210–221
M. Atzmüller and F. Puppe
- Prototypical case mining from biomedical literature for bootstrapping a case base 222–237
I. Bichindaritz
- Prototype-based classification 238–246
P. Perner
- Concise case indexing of time series in health care by means of key sequence discovery 247–260
N. Xiong and P. Funk
- Modeling adaptation of breast cancer treatment decision protocols in the Kasimir project 261–274
J. Lieber, M. d'Aquin, F. Badra and A. Napoli
- Exploring new roles for case-based reasoning in heterogeneous AI systems for medical decision support 275–285
S. Montani
- Vol. 29, No. 1**
Articles
A generalized model for financial time series representation and prediction 1–11
D. Bao
- A generalized model for financial time series representation and prediction 12
D. Bao
- Online mining of fuzzy multidimensional weighted association rules 13–34
M. Kaya and R. Alhajj
- Cancer classification from serial analysis of gene expression with event models 35–46
X. Jin, A. Xu and R. Bie
- A robust learning algorithm based on support vector regression and robust fuzzy cerebellar model articulation controller 47–55
Z.-J. Lee
- Experiences with planning techniques for assisting software design activities 56–78
J. A. Díaz Pace and M. R. Campo
- Supersonic, variable-throat, blow-down wind tunnel control using genetic algorithms, neural networks, and gain scheduled PID 79–89
C. Nott, S. M. Ölgmen, D. R. Lewis and K. Williams
- Planning in highly dynamic environments: an anytime approach for planning under time constraints 90–109
O. Sapena and E. Onaindia
- Vol. 29, No. 2**
Special Issue on Soft Computing Techniques Applied to Finance
Guest Editors: P. Isasi and A. Mochon
Articles
Soft computing techniques applied to finance 111–115
A. Mochón, D. Quintana, Y. Sáez and P. Isasi
- Maximizing winning trades using a novel RSPOP fuzzy neural network intelligent stock trading system 116–128
A. Tan, C. Quek and K. C. Yow
- Knowledge discovery in corporate events by neural network rule extraction 129–137
M. Dong and X.-S. Zhou
- A novel recurrent neural network-based prediction system for option trading and hedging 138–151
C. Quek, M. Pasquier and N. Kumar
- Kernel price pattern trading 152–156
A. Cañete, J. Constanzo and L. Salinas
- Early bankruptcy prediction using ENPC 157–161
D. Quintana, Y. Sáez, A. Mochón and P. Isasi
- Evolving cooperative bidding strategies in a power market 162–173
D. Srinivasan and D. Woo
- GPPE: a method to generate ad-hoc feature extractors for prediction in financial domains 174–185
C. Estébanez, J. M. Valls and R. Aler
- Vol. 29, No. 3**
Articles
Estimation of individual prediction reliability using the local sensitivity analysis 187–203
Z. Bosnic and I. Kononenko
- Classification performance evaluation of single-layer perceptron with Choquet integral-based TOPSIS 204–215
Y.-C. Hu
- A cognitive scheme for gateway protection in wireless sensor network 216–227
W. A. Youssef and M. F. Younis
- Population size reduction for the differential evolution algorithm 228–247
J. Brest and M. S. Maucec
- Motion detection and object tracking with discrete leaky integrate-and-fire neurons 248–262
L. Risinger and K. Kaikhah
- Explaining inferences in Bayesian networks 263–278
G.-E. Yap, A.-H. Tan and H. H. Pang
- A personalized counseling system using case-based reasoning with neural symbolic feature weighting 279–288
S. Ha
- A personalized counseling system using case-based reasoning with neural symbolic feature weighting 289
K. H. Im and S. H. Ha
- PID control of MIMO process based on rank niching genetic algorithm 290–305
L. V. R. Arruda, M. C. S. Swiech, M. R. B. Delgado and F. Neves Jr
- Updating generalized association rules with evolving taxonomies 306–320
M.-C. Tseng, W.-Y. Lin and R. Jeng

Artificial Intelligence

- Vol. 172, No. 1**
Articles
Resolving crises through automated bilateral negotiations 1–18
S. Kraus, P. Hoz-Weiss, J. Wilkenfeld, D. R. Andersen and A. Pate
- An experimental evaluation of simplicity in rule learning 19–28
U. Rückert and L. De Raedt
- Theoretical analysis of singleton arc consistency and its extensions 29–41
C. Bessiere and R. Debruyne

- Conditional independence and chain event graphs
42–68
J. Q. Smith and P. E. Anderson
- Vol. 172, Nos. 2–3**
- Articles**
- Multi-agent human–machine dialogue: issues in dialogue management and referring expression semantics 69–102
A. Knott and P. Vlugter
- State-set branching: leveraging BDDs for heuristic search 103–139
R. M. Jensen, M. M. Veloso and R. E. Bryant
- MEBN: a language for first-order Bayesian knowledge bases 140–178
K. B. Laskey
- Phase transition in a random NK landscape model 179–203
S.-S. Choi, K. Jung and J. H. Kim
- A logical approach to efficient Max-SAT solving 204–233
J. Larrosa, F. Heras and S. de Givry
- Conjunctive and disjunctive combination of belief functions induced by nondistinct bodies of evidence 234–264
T. Denoeux
- Redundancy in logic II: 2CNF and Horn propositional formulae 265–299
P. Liberatore
- Automatic scoring of short handwritten essays in reading comprehension tests 300–324
S. N. Srihari, J. Collins, R. K. Srihari, H. Srinivasan, S. Shetty and J. Brutt-Griffler
- Graphically structured value-function compilation 325–349
R. I. Brafman and C. Domshlak
- Vol. 172, Nos. 4–5**
- Articles**
- Representation of occurrences for road vehicle traffic 351–391
R. Gerber and H.-H. Nagel
- Learning how to combine sensory-motor functions into a robust behavior 392–412
B. Morisset and M. Ghallab
- Speculative plan execution for information gathering 413–453
G. Barish and C. A. Knoblock
- Restricted gradient-descent algorithm for value-function approximation in reinforcement learning 454–482
A. da Motta Salles Barreto and C. W. Anderson
- Quantifying the uncertainty of a belief net response: Bayesian error-bars for belief net inference 483–513
T. Van Allen, A. Singh, R. Greiner and P. Hooper
- Duality in permutation state spaces and the dual search algorithm 514–540
U. Zahavi, A. Felner, R. C. Holte and J. Schaeffer
- Managing parallel inquiries in agents' two-sided search 541–569
D. Sarne and S. Kraus
- On the notion of concept I 570–590
M. Freund
- The model evolution calculus as a first-order DPLL method 591–632
P. Baumgartner and C. Tinelli
- Vol. 172, Nos. 6–7**
- Articles**
- A study of mechanisms for improving robotic group performance 633–655
A. Rosenfeld, G. A. Kaminka, S. Kraus and O. Shehry
- Proof planning with multiple strategies 656–684
E. Melis, A. Meier and J. H. Siekmann
- Sequential Monte Carlo in reachability heuristics for probabilistic planning 685–715
D. Bryce, S. Kambhampati and D. E. Smith
- Teachable robots: understanding human teaching behavior to build more effective robot learners 716–737
A. L. Thomaz and C. Breazeal
- Solving quantified constraint satisfaction problems 738–771
I. P. Gent, P. Nightingale, A. G. D. Rowley and K. Stergiou
- On probabilistic inference by weighted model counting 772–799
M. Chavira and A. Darwiche
- Domain filtering consistencies for non-binary constraints 800–822
C. Bessiere, K. Stergiou and T. Walsh
- Negotiating with bounded rational agents in environments with incomplete information using an automated agent 823–851
R. Lin, S. Kraus, J. Wilkenfeld and J. Barry
- Expressive probabilistic description logics 852–883
T. Lukasiewicz
- Robust artificial life via artificial programmed death 884–898
M. M. Olsen, N. Siegelmann-Danieli and H. T. Siegelmann
- Vol. 172, Nos. 8–9**
- Articles**
- An approach to efficient planning with numerical fluents and multi-criteria plan quality 899–944
A. Gerevini, A. Saetti and I. Serina
- Reachability analysis of uncertain systems using bounded-parameter Markov decision processes 945–954
D. Wu and X. D. Koutsoukos
- Understanding the role of noise in stochastic local search: analysis and experiments 955–990
O. J. Mengshoel
- On propositional definability 991–1017
J. Lang and P. Marquis
- Complexity results and algorithms for possibilistic influence diagrams 1018–1044
L. Garcia and R. Sabbadin
- Active logic semantics for a single agent in a static world 1045–1063
M. L. Anderson, W. E. Gooma, J. Grant and D. Perlis
- Analysing inconsistent first-order knowledgebases 1064–1093
J. Grant and A. Hunter
- Domain permutation reduction for constraint satisfaction problems 1094–1118
M. J. Green and D. A. Cohen
- Alternating-offers bargaining with one-sided uncertain deadlines: an efficient algorithm 1119–1157
N. Gatti, F. Di Giunta and S. Marino
- Temporal reasoning about fuzzy intervals 1158–1193
S. Schockaert and M. De Cock
- Vol. 172, No. 10**
- Articles**
- The measurement of ranks and the laws of iterated contraction 1195–1218
M. Hild and W. Spohn
- Fully generated scripted dialogue for embodied agents 1219–1244
K. van Deemter, B. Krenn, P. Piwek, M. Klesen, M. Schröder and S. Baumann
- What makes propositional abduction tractable 1245–1284
G. Nordh and B. Zanuttini
- Natural language directed inference from ontologies 1285–1315
C. Mellish and J. Z. Pan
- Vol. 172, No. 11**
- Articles**
- Redundancy in logic III: non-monotonic reasoning 1317–1359
P. Liberatore

Semiring induced valuation algebras: exact and approximate local computation algorithms 1360–1399

J. Kohlas and N. Wilson

Imprecise probability trees: bridging two theories of imprecise probability 1400–1427

G. de Cooman and F. Hermans

Vol. 172, Nos. 12–13

Articles

Maintenance goals of agents in a dynamic environment: formulation and policy construction 1429–1469

C. Baral, T. Eiter, M. Bjäreland and M. Nakamura

Enhanced qualitative probabilistic networks for resolving trade-offs 1470–1494

S. Renooij and L. C. van der Gaag

Combining answer set programming with description logics for the Semantic Web 1495–1539

T. Eiter, G. Ianni, T. Lukasiewicz, R. Schindlauer and H. Tompits

Pouring liquids: a study in commonsense physical reasoning 1540–1578

E. Davis

Heuristics for planning with penalties and rewards formulated in logic and computed through circuits 1579–1604

B. Bonet and H. Geffner

Properties of tree convex constraints 1605–1612

Y. Zhang and E. C. Freuder

Vol. 172, No. 14

Articles

Anytime search in dynamic graphs 1613–1643

M. Likhachev, D. Ferguson, G. J. Gordon, A. Stentz and S. Thrun

Semantic forgetting in answer set programming 1644–1672

T. Eiter and K. Wang

A linear approximation method for the Shapley value 1673–1699

S. S. Fatima, M. Wooldridge and N. R. Jennings

Strategic bidding in continuous double auctions 1700–1729

P. Vytelingum, D. Cliff and N. R. Jennings

Vol. 172, No. 15

Articles

The combination of multiple classifiers using an evidential reasoning approach 1731–1751

Y. Bi, J. Guan and D. Bell

Modelling and solving temporal reasoning as propositional satisfiability 1752–1782

D. N. Pham, J. Thornton and A. Sattar

Fault tolerant mechanism design 1783–1799

R. Porter, A. Ronen, Y. Shoham and M. Tennenholtz

A note on the correctness of the causal ordering algorithm 1800–1808

D. Dash and M. J. Druzdzel

A new approach to estimating the expected first hitting time of evolutionary algorithms 1809–1832

Y. Yu and Z.-H. Zhou

Erratum

Erratum to “Reasoning with infinite stable models” [Artificial Intelligence 156 (1) 75–111] 1833–1835

P. A. Bonatti

Vol. 172, Nos. 16–17

Articles

Outlier detection using default reasoning 1837–1872

F. Angiulli, R. Ben-Eliyahu-Zohary and L. Palopoli

On the completeness of orientation rules for causal discovery in the presence of latent confounders and selection bias 1873–1896

J. Zhang

Label ranking by learning pairwise preferences 1897–1916

E. Hüllermeier, J. Fürnkranz, W. Cheng and K. Brinker

Mechanisms for information elicitation 1917–1939

A. Zohar and J. S. Rosenschein

Vol. 172, No. 18

Editorial 1943

D. Perlis and M.-A. Williams

Articles

Odd man out: reply to reviewers 1944–1964

M. A. Boden

A review of the handbook of knowledge representation 1965–1966

E. Sandewall

Robotics: state of the art and future challenges, 1967–1972

C. Stanton and M.-A. Williams

Generalised arc consistency for the AllDifferent constraint: an empirical survey 1973–2000

I. P. Gent, I. Miguel and P. Nightingale

The well-designed child 2003–2014

J. McCarthy

The well-designed young mathematician 2015–2034

A. Sloman

Artificial Life

Vol. 14, No. 1

Articles

Systems biology and artificial life: towards predictive modeling of biological systems 1–2

J. T. Kim and R. Eils

Construction of a biological tissue model based on a single-cell model: a computer simulation of metabolic heterogeneity in the liver lobule 3–28

H. Ohno, Y. Naito, H. Nakajima and M. Tomita

Comparative study of circadian oscillatory network models of *Drosophila* 29–48

Y. Ogawa, K. Arakawa, K. Kaizu, F. Miyoshi,

Y. Nakayama and M. Tomita

Exploring the operational characteristics of inference algorithms for transcriptional networks by means of synthetic data 49–63

K. Van Leemput, T. Van den Bulcke, T. Dhollander,

B. De Moor, K. Marchal and P. van Remortel

Constructing gene networks using variational bayesian variable selection 65–79

I. M. Tienda-Luna, Y. Yin, Y. Huang, D. P. Ruiz

Padillo, M. C. Carrion Perez and Y. Wang

Algebraic method for the analysis of signaling crosstalk 81–94

Y. Matsubara, S. Kikuchi, M. Sugimoto, K. Oka and M. Tomita

A model of the quorum sensing system in *Vibrio fischeri* using P systems 95–109

F. J. Romero-Campero and M. J. Pérez-Jiménez

Phase transitions and bistability in honeybee foraging dynamics 111–120

A. Loengarov and V. Tereshko

Bio-logic: gene expression and the laws of combinatorial logic 121–133

M. J. Schilstra and C. L. Nehaniv

Genetic regulatory network models of biological clocks: evolutionary history matters 135–148

J. F. Knabe, C. L. Nehaniv and

M. J. Schilstra

The topology of the protein network influences the dynamics of gene order: from systems biology to a systemic understanding of evolution 149–156

C. Knibbe, J.-M. Fayard and G. Beslon

Vol. 14, No. 2**Articles**

Evolving homogeneous neurocontrollers for a group of heterogeneous robots: coordinated motion, cooperation, and acoustic communication 157–178

E. Tuci, C. Ampatzis, F. Vicentini and M. Dorigo

V-like formations in flocks of artificial birds 179–188

A. Nathan and V. C. Barbosa

Metabolic photofragmentation kinetics for a minimal protocell: rate-limiting factors, efficiency, and implications for evolution 189–201

C. Knutson, G. Benkő, T. Rocheleau, F. Mouffouk, J. Masekko, L. Chen, A. P. Shreve and S. Rasmussen

Towards unconventional computing through simulated evolution: control of non-linear media by a learning classifier system 203–222

L. Bull, A. Budd, C. Stone, I. S. Uroukov, B. de Lacy Costello and A. Adamatzky

Book Reviews

Evolution and Culture. S. C. Levinson and P. Jaisson (eds) (2006, MIT Press. xvii+296 pages) 223–225

B. de Boer

Probabilistic Robotics. S. Thrun, W. Burgard and D. Fox (2005, MIT Press. 647 pages) 227–229

J. C. Bongard

Biological Emergences: Evolution by Natural Experiment. R. G. B. Reid (2007, Cambridge, MA: MIT Press. 517 pages) 231–233

S. N. Salthe

Conceptual Issues in Evolutionary Biology (3rd edn). E. Sober (ed.) (2006, Cambridge MA: MIT Press. 640 pages) 235–238

A. Etxeberria and J. Umerez

Self-Organization and Emergence in Life Sciences. B. Feltz, M. Crommelinck and P. Goujon (eds) (2006, Synthese Library Volume 331, Springer. 360 pages) 239–240

C. Gershenson

Vol. 14, No. 3**Articles**

Evolution of complexity 241–243

C. Gershenson and T. Lenaerts

Hierarchical self-organization in the finitary process soup 245–254

O. Görnerup and J. P. Crutchfield

On the gradual evolution of complexity and the sudden emergence of complex features 255–263

C. Ofria, W. Huang and E. Torng

The emergence of overlapping scale-free genetic architecture in digital organisms 265–275

P. Gerlee and T. Lundh

LinMap: visualizing complexity gradients in evolutionary landscapes 277–297

N. Geard and J. Wiles

Hierarchical coordinate systems for understanding complexity and its evolution, with applications to genetic regulatory networks 299–312

A. Egri-Nagy and C. L. Nehaniv

Criteria for conceptual and operational notions of complexity 313–323

D. Chu

Evolution and complexity: the double-edged sword 325–344

T. Miconi

Natural or internal selection? The case of canalization in complex evolutionary systems 345–362

A. Riegler

Natural selection in relation to complexity 363–374

S. N. Salthe

Full body: the importance of the phenotype in evolution 375–386

G. Kampis and L. Gulyás

Vol. 14, No. 4**Articles**

The embodiment of cockroach aggregation behavior in a group of micro-robots 387–408

S. Garnier, C. Jost, J. Gautrais, M. Asadpour,

G. Caprari, R. Jeanson, A. Grimal and G. Theraulaz

Self-organization of intertidal snails facilitates evolution of aggregation behavior 409–423

R. Stafford, M. S. Davies and G. A. Williams

The numerical measure of symmetry for 3D stick creatures 425–443

W. Jaskowski and M. Komosinski

The nature of words in human protolanguages: it's not a holophrastic–atomic meanings dichotomy 445–465

M. Dowman

Book Reviews

The Principles of Life. T. Ganti (2003, Oxford University Press. 220 pages) 467–470

C. Fernando

Origin and Early Evolution of Life. T. Fenchel (2002, Oxford University Press. 171 pages, 7 color plates) 471–472

D. Deamer

Autonomous Robots**Vol. 24, No. 1****Articles**

A unifying framework for robot control with redundant DOFs 1–12

J. Peters, M. Mistry, F. E. Udvardia, J. Nakanishi and S. Schaal

A line feature based SLAM with low grade range sensors using geometric constraints and active exploration for mobile robot 13–27

Y.-H. Choi, T.-K. Lee and S.-Y. Oh

Extending obstacle avoidance methods through multiple parameter-space transformations 29–48

J.-L. Blanco, J. Gonzalez and J.-A. Fernandez-Madrigal

Fault detection in autonomous robots based on fault injection and learning 49–67

A. L. Christensen, R. O'Grady, M. Birattari and M. Dorigo

Learning traversability models for autonomous mobile vehicles 69–86

M. Shneier, T. Chang, T. Hong, W. P. Shackleford, R. Bostelman and J. S. Albus

Model-based control architecture for attentive robots in rescue scenarios 87–120

A. Carbone, A. Finzi, A. Orlandini and F. Pirri

Vol. 24, No. 2

Guest editorial: special issue on socially assistive robotics 121–122

A. Tapus and M. J. Mataric

Articles

Controller design for human-robot interaction 123–134

E. Meisner, V. Isler and J. Trinkle

Human friendship estimation model for communication robots 135–145

T. Kanda, S. Nabe, K. Hiraki, H. Ishiguro and N. Hagita

Exploring the use of a mobile robot as an imitation agent with children with low-functioning autism 147–157

A. Duquette, F. Michaud and H. Mercier

Avoiding the uncanny valley: robot appearance, personality and consistency of behavior in an attention-seeking home scenario for a robot companion 159–178

M. L. Walters, D. S. Syrdal, K. Dautenhahn, I. René, J. A. te Boekhorst and K. L. Koay

- Mobile manipulators for assisted living in residential settings 179–192
P. Deegan, R. A. Grupen, A. R. Hanson, E. Horrell, S. Ou, E. M. Riseman, S. Sen, B. J. Thibodeau, A. Williams and D. Xie
- User-adapted plan recognition and user-adapted shared control: a Bayesian approach to semi-autonomous wheelchair driving 193–211
E. Demeester, A. Hüntemann, D. Vanhooydonck, G. Vanacker, H. Van Brussel and M. Nuttin
- Vol. 24, No. 3**
- Articles**
- Dealing with internal and external perturbations on walking robots 213–227
E. Garcia, P. G. de Santos and F. Matia
- Appearance-based mapping using minimalistic sensor models 229–246
P. E. Rybski, S. I. Roumeliotis, M. L. Gini and N. P. Papanikopoulos
- Design and evaluation of a reactive and deliberative collision avoidance and escape architecture for autonomous robots 247–266
J. Evans, P. Patrón, B. Smith and D. M. Lane
- Uncertainty and imprecision modeling for the mobile robot localization problem 267–283
A. Clerentin, M. Delafosse, L. Delahoche, B. Marhic and A.-M. Jolly-Desodt
- Scanning and tracking with independent cameras—a biologically motivated approach based on model predictive control 285–302
O. Avni, F. Borrelli, G. Katzir, E. Rivlin and H. Rotstein
- Top-down vs bottom-up methodologies in multi-agent system design 303–313
V. Crespi, A. Galstyan and K. Lerman
- A practical approach for EKF-SLAM in an indoor environment: fusing ultrasonic sensors and stereo camera 315–335
S. Ahn, J. Choi, N. L. Doh and W. K. Chung
- Vol. 24, No. 4**
- Articles**
- Frequency response method for terrain classification in autonomous ground vehicles 337–347
E. M. DuPont, C. A. Moore, E. G. Collins Jr and E. Coyle
- A bacterial colony growth algorithm for mobile robot localization 349–364
A. Gasparri and M. C. F. Prospero
- An efficient system for combined route traversal and collision avoidance 365–385
B. Hamner, S. Singh, S. Roth and T. Takahashi
- Dynamic space reconfiguration for Bayesian search and tracking with moving targets 387–399
B. Lavis, T. Furukawa and H. F. Durrant-Whyte
- Active audition using the parameter-less self-organising map 401–417
E. Berglund, J. Sitte and G. Wyeth
- Development of a compliance controller to reduce energy consumption for bipedal robots 419–434
B. Vanderborght, B. Verrelst, R. Van Ham, M. Van Damme, P. Beyl and D. Lefeber
- Systems, control models, and codec for collaborative observation of remote environments with an autonomous networked robotic camera 435–449
D. Song, N. Qin and K. Y. Goldberg
- Vol. 25, Nos. 1–2**
- Articles**
- Bio-inspired sensory-motor coordination 1–2
C. Laschi and R. S. Johansson
- Controlling swimming and crawling in a fish robot using a central pattern generator 3–13
A. Crespi, D. Lachat, A. Pasquier and A. J. Ijspeert
- Walking up and down hill with a biologically-inspired postural reflex in a quadrupedal robot 15–24
X. Zhang and H. Zheng
- On the nonholonomic nature of human locomotion 25–35
G. Arechavaleta, J.-P. Laumond, H. Hicheur and A. Berthoz
- Bioinspired velocity control of fast gaze shifts on a robotic anthropomorphic head 37–58
E. S. Maini, L. Manfredi, C. Laschi and P. Dario
- Biologically-inspired 3D grasp synthesis based on visual exploration 59–70
G. Recatalá, E. Chinellato, A. P. Del Pobil, Y. Mezouar and P. Martinet
- Reaching with multi-referential dynamical systems 71–83
M. Hersch and A. Billard
- A bio-inspired predictive sensory-motor coordination scheme for robot reaching and preshaping 85–101
C. Laschi, G. Asuni, E. Guglielmelli, G. Teti, R. S. Johansson, H. Konosu, Z. Wasik, M. C. Carrozza and P. Dario
- A vision-based autopilot for a miniature air vehicle: joint speed control and lateral obstacle avoidance 103–122
J. Serres, D. Dray, F. Ruffier and N. H. Franceschini
- Reactive navigation through multiscroll systems: from theory to real-time implementation 123–146
P. Arena, S. De Fiore, L. Fortuna, M. Frasca, L. Patané and G. Vagliasindi
- Biologically-inspired robot spatial cognition based on rat neurophysiological studies 147–169
A. Barrera and A. Weitzenfeld
- Trophallaxis within a robotic swarm: bio-inspired communication among robots in a swarm 171–188
T. Schmickl and K. Crailsheim
- Vol. 25, No. 3**
- Articles**
- Design and control of a heavy material handling manipulator for agricultural robots 189–204
S. Sakai, M. Iida, K. Osuka and M. Umeda
- RoadCompass: following rural roads with vision+ladar using vanishing point tracking 205–229
C. Rasmussen
- Modeling dynamic scenarios for local sensor-based motion planning 231–251
L. Montesano, J. Minguez and L. Montano
- Indoor navigation of a non-holonomic mobile robot using a visual memory 253–266
J. Courbon, Y. Mezouar and P. Martinet
- Visual-model-based, real-time 3D pose tracking for autonomous navigation: methodology and experiments 267–286
H. de Ruiter and B. Benhabib
- Geodesic Gaussian kernels for value function approximation 287–304
M. Sugiyama, H. Hachiya, C. Towell and S. Vijayakumar
- Fast and accurate map merging for multi-robot systems 305–316
S. Carpin
- Vol. 25, No. 4**
- Articles**
- Design and control of a planar bipedal robot ERNIE with parallel knee compliance 317–330
T. Yang, E. R. Westervelt, J. P. Schmiedeler and R. A. Bockbrader
- Self-organized adaptive legged locomotion in a compliant quadruped robot 331–347
J. Buchli and A. J. Ijspeert
- Basic navigation, guidance and control of an unmanned surface vehicle 349–365
M. Caccia, M. Bibuli, R. Bono and G. Bruzzone

An autonomous educational mobile robot mediator
367–382

R. Mitnik, M. Nussbaum and A. Soto

A multimode navigation system for an assistive robotics
project 383–404

*A. Cherubini, G. Oriolo, F. Macri, F. Aloise,
F. Cincotti and D. Mattia*

A pragmatic approach to dimensional analysis for
mobile robotic programming 405–419

G. Biggs and B. A. MacDonald

Appearance-based mapping using minimalistic sensor
models 421

*P. E. Rybski, S. I. Roumeliotis, M. L. Gini and
N. P. Papanikopoulos*

Data Mining and Knowledge Discovery

Vol. 16, No. 1

Guest editorial: special issue on temporal data mining:
theory, algorithms and applications 1–3

T. Li, C.-S. Perng and S. Ma

Articles

Mining spatio-temporal patterns in object mobility
databases 5–38

F. Verhein and S. Chawla

Web usage mining: extracting unexpected periods from
Web logs 39–65

*F. Masegla, P. Poncelet, M. Teisseire and
A. Marascu*

A dynamic bibliometric model for identifying online
communities 67–107

X. Wang and A. Kabán

Correlating burst events on streaming stock market
data 109–133

*M. Vlachos, K.-L. Wu, S.-K. Chen and
P. S. Yu*

Vol. 16, No. 2

Articles

Collusion set detection using graph clustering
135–164

G. K. Palshikar and M. M. Apte

A recursive search algorithm for statistical disclosure
assessment 165–196

A. M. Manning, D. J. Haglin and J. A. Keane

Mining functional dependencies from data 197–219

H. Yao and H. J. Hamilton

Effective elimination of redundant association rules
221–249

J. Cheng, Y. Ke and W. Ng

Vol. 16, No. 3

Articles

A framework for condensation-based anonymization of
string data 251–275

C. C. Aggarwal and P. S. Yu

Bipartite isoperimetric graph partitioning for data
co-clustering 276–312

M. Rege, M. Dong and F. Fotouhi

Using association rules to mine for strong approximate
dependencies 313–348

*D. Sánchez, J.-M. Serrano, I. Blanco, M. J. Martín-
Bautista and M. A. V. Miranda*

Fast mining of distance-based outliers in high-
dimensional datasets 349–364

A. Ghoting, S. Parthasarathy and M. E. Otey

Vol. 17, No. 1

**Special issue: Selected Papers from ECML
PKDD 2008**

Guest editors' introduction to the special issue 1–2

W. Daelemans, B. Goethals and K. Morik

Articles

Finding reliable subgraphs from large probabilistic
graphs 3–23

P. Hintsanen and H. Toivonen

A space efficient solution to the frequent string mining
problem for many databases 24–38

A. Kügel and E. Ohlebusch

The Boolean column and column-row matrix
decompositions 39–56

P. Miettinen

SkyGraph: an algorithm for important subgraph
discovery in relational graphs 57–76

*A. N. Papadopoulos, A. Lyritsis and
Y. Manolopoulos*

Mining conjunctive sequential patterns 77–93

C. Raïssi, T. Calders and P. Poncelet

Adequate condensed representations of patterns
94–110

A. Soulet and B. Crémilleux

Two heads better than one: pattern discovery in
time-evolving multi-aspect data 111–128

*J. Sun, C. E. Tsourakakis, E. Hoke, C. Faloutsos and
T. Eliassi-Rad*

Vol. 17, No. 2

Special Issue on Utility-Based Data Mining

**Guest Editors: Gary M. Weiss, Maytal Saar-Tsechansky
and Bianca Zadrozny**

Guest editorial on the special issue 129–135

G. M. Weiss, B. Zadrozny and M. Saar-Tsechansky

Articles

Cost-sensitive learning with conditional Markov
networks 136–163

P. Sen and L. Getoor

Quantifying counts and costs via classification
164–206

G. Forman

PRIE: a system for generating rulelists to maximize
ROC performance 207–224

T. Fawcett

Automatically countering imbalance and its empirical
relationship to cost 225–252

*N. V. Chawla, D. A. Cieslak, L. O. Hall and
A. Joshi*

Maximizing classifier utility when there are data
acquisition and modeling costs 253–282

G. M. Weiss and Y. Tian

Pessimistic cost-sensitive active learning of decision
trees for profit maximizing targeting campaigns
283–316

L. Rokach, L. Naamani and A. Shmilovici

Classification trees and decision-analytic feedforward
control: a case study from the video game industry
317–342

M. Brydon and A. Gemino

Vol. 17, No. 3

Articles

Efficiently finding unusual shapes in large image
databases 343–376

L. Wei, E. J. Keogh, X. Xi and M. Yoder

Efficient algorithms for segmentation of item-set time
series 377–401

P. Chundi and D. J. Rosenkrantz

Learning to hash: forgiving hash functions and
applications 402–430

S. Baluja and M. Covell

Parallel interacting MCMC for learning of topologies
of graphical models 431–456

J. Corander, M. Ekdahl and T. Koski

An integrated, generic approach to pattern mining:
data mining template library 457–495

*V. Chaoji, M. Al Hasan, S. Salem and
M. J. Zaki*

Electronic Commerce Research

Vol. 8, Nos. 1–2

Articles

Evaluating product search and recommender systems for E-commerce environments 1–27

P. Pu, L. Chen and P. Kumar

Browsing databases with constraint hierarchies 29–56

L. V. Orman

Protocol completion incentive problems in cryptographic Vickrey auctions 57–77

P. G. Bradford, S. Park, M. H. Rothkopf and H. Park

The concept of decentralized and secure electronic marketplace 79–101

C. Serban, Y. Chen, W. Zhang and N. H. Minsky

Inter-brand comparison of online auction markets 103–114

J. K. Ho

Vol. 8, No. 3

Articles

Designing a secure e-tender submission protocol 115–142

R. Du, E. Foo and C. Boyd

Sensation seeking and e-shoppers 143–154

J. M. López-Bonilla and L. M. López-Bonilla

Profit sharing and firm performance in the manufacturer-retailer dual-channel supply chain 155–172

R. Yan

A descriptive reference framework for the personalisation of e-business applications 173–192

P. Koutsabasis, M. Stavarakis, N. Viorres, J. S. Darzentas, T. Spyrou and J. Darzentas

Expert Systems With Applications

Vol. 34, No. 1

Articles

Hybrid multi-agent architecture as a real-time problem-solving model 2–17

C. Carrascosa, J. Bajo, V. Julián, J. M. Corchado and V. J. Botti

A co-evolving decision tree classification method 18–25

M. J. Aitkenhead

Bowel-sound pattern analysis using wavelets and neural networks with application to long-term, unsupervised, gastrointestinal motility monitoring 26–41

C. Dimoulas, G. Kalliris, G. Papanikolaou, V. Petridis and A. Kalampakas

Knock-on accident prevention in a chemical cluster 42–49

G. L. L. Reniers and W. Dullaert

Mining product maps for new product development 50–62

S.-H. Liao, C.-L. Hsieh and S.-P. Huang

Structural equation model for effective CRM of digital content industry 63–71

Y. G. Joo and S. Y. Sohn

Standardized course generation process using dynamic fuzzy petri nets 72–86

Y.-M. Huang, J.-N. Chen, T.-C. Huang, Y.-L. Jeng and Y.-H. Kuo

Local interaction and non-local coordination in agent social law diffusion 87–95

Y. Jiang and T. Ishida

A fuzzy AHP and BSC approach for evaluating performance of IT department in the manufacturing industry in Taiwan 96–107

A. H. I. Lee, W.-C. Chen and C.-J. Chang

The feasibility of constructing a predictive outcome model for breast cancer using the tools of data mining 108–118

T. Jonsdottir, E. T. Hvannberg, H. Sigurdsson and S. Sigurdsson

Using customer knowledge in designing electronic catalog 119–127

C. Lin and C. Hong

Characterizing viability of small manufacturing enterprises (SME) in the market 128–134

K. S. Kim, T. L. Knotts and S. C. Jones

A TSK type fuzzy rule based system for stock price prediction 135–144

P.-C. Chang and C.-H. Liu

A fuzzy optimization method for multicriteria decision making: an application to reservoir flood control operation 145–149

G. Fu

Utility-based double auction mechanism using genetic algorithms 150–158

J. H. Choi, H. Ahn and I. Han

Conflict-sensitivity contexture learning algorithm for mining interesting patterns using neuro-fuzzy network with decision rules 159–172

C.-M. Hung and Y.-M. Huang

Design of a replenishment system for a stochastic dynamic production/forecast lot-sizing problem under bullwhip effect 173–180

C.-T. Su and J.-T. Wong

A knowledge management system for series-parallel availability optimization and design 181–193

Y.-S. Juang, S.-S. Lin and H.-P. Kao

Soliciting customer requirements for product redesign based on picture sorts and ART2 neural network 194–204

M.-D. Shieh, W. Yan and C.-H. Chen

A causal analytical method for group decision-making under fuzzy environment 205–213

C.-J. Lin and W.-W. Wu

Principles component analysis, fuzzy weighting pre-processing and artificial immune recognition system based diagnostic system for diagnosis of lung cancer 214–221

K. Polat and S. Günes

Expert system for remnant life prediction of defected components under fatigue and creep-fatigue loadings 222–230

X. Liu, F.-Z. Xuan, J. Si and S.-T. Tu

A hybrid classification method using error pattern modeling 231–241

J. Hur and J. W. Kim

ESTDD: expert system for thyroid diseases diagnosis 242–246

A. Keles and A. Keles

Diagnosis for monitoring system of municipal solid waste incineration plant 247–255

J.-C. Chen and K.-Y. Lin

A smart access control using an efficient license plate location and recognition approach 256–265

S. M. Youssef and S. B. AbdelRahman

Image semantics discovery from Web pages for semantic-based image retrieval using self-organizing maps 266–279

H.-C. Yang and C.-H. Lee

Data mining to improve personnel selection and enhance human capital: a case study in high-technology industry 280–290

C.-F. Chien and L.-F. Chen

Expert system development for vibration analysis in machine condition monitoring 291–299

S. Ebersbach and Z. Peng

- A user-oriented contents recommendation system in peer-to-peer architecture 300–312
J. K. Kim, H. K. Kim and Y. H. Cho
- Churn prediction in subscription services: an application of support vector machines while comparing two parameter-selection techniques 313–327
K. Coussement and D. Van den Poel
- Temperature prediction and TAIFEX forecasting based on high-order fuzzy logical relationships and genetic simulated annealing techniques 328–336
L.-W. Lee, L.-H. Wang and S.-M. Chen
- Pattern differentiation of glandular cancerous cells and normal cells with cellular automata and evolutionary learning 337–346
J.-C. Chen, C.-M. Yeh and J.-E. Tzeng
- Intelligent spider for information retrieval to support mining-based price prediction for online auctioning 347–356
C.-C. H. Chan
- A study of the contribution made by evolutionary learning on dynamic load-balancing problems in distributed computing systems 357–365
J.-C. Chen, G.-X. Liao, J.-S. Hsie and C.-H. Liao
- Comparing performances of logistic regression, classification and regression tree, and neural networks for predicting coronary artery disease 366–374
I. Kurt, M. Ture and A. T. Kurum
- Two-stage classification methods for microarray data 375–383
T.-T. Wong and C.-H. Hsu
- A novel hybrid algorithm for function approximation 384–390
Z.-J. Lee
- A non-parametric learning algorithm for small manufacturing data sets 391–398
D.-C. Li and C.-W. Yeh
- Evaluating students' learning achievement using fuzzy membership functions and fuzzy rules 399–410
S.-M. Bai and S.-M. Chen
- Extracting classification rule of software diagnosis using modified MEPA 411–418
J.-S. Chen and C.-H. Cheng
- Economic design of variable sampling intervals EWMA charts with sampling at fixed times using genetic algorithms 419–426
C.-Y. Chou, J.-C. Cheng and W.-T. Lai
- Using neural networks and immune algorithms to find the optimal parameters for an IC wire bonding process 427–436
T.-H. (Tony) Hou, C.-H. Su and H.-Z. Chang
- A location-aware recommender system for mobile shopping environments 437–445
W.-S. Yang, H.-C. Cheng and J.-B. Dia
- An intelligent human-expert forum system based on fuzzy information retrieval technique 446–458
Y.-M. Huang, J.-N. Chen, Y.-H. Kuo and Y.-L. Jeng
- Multi-level fuzzy mining with multiple minimum supports 459–468
Y.-C. Lee, T.-P. Hong and T.-C. Wang
- An agent-based model for consumer-to-business electronic commerce 469–481
D.-N. Chen, B. Jeng, W.-P. Lee and C.-H. Chuang
- A cascade learning system for classification of diabetes disease: generalized discriminant analysis and least square support vector machine 482–487
K. Polat, S. Günes and A. Arslan
- Using recursive ART network to construction domain ontology based on term frequency and inverse document frequency 488–501
R. C. Chen, J.-Y. Liang and R.-H. Pan
- Variable selection in clustering for marketing segmentation using genetic algorithms 502–510
H.-H. Liu and C.-S. Ong
- Online fault diagnosis and prevention expert system for dredgers 511–521
J.-Z. Tang and Q.-F. Wang
- An association rule mining method for estimating the impact of project management policies on software quality, development time and effort 522–529
M. N. M. García, I. R. Román, F. J. G. Peñalvo and M. T. Bonilla
- A fuzzy CBR technique for generating product ideas 530–540
M.-C. Wu, Y.-F. Lo and S. H. Hsu
- Multi-perspective ontologies: resolving common ontology development problems 541–550
J. Kingston
- An expert system for dynamic re-coordination of distributed workflows 551–563
W. L. Kuechler Jr and V. K. Vaishnavi
- Approximate modeling for high order non-linear functions using small sample sets 564–569
T.-I. Tsai and D.-C. Li
- A hybrid genetic algorithm for the re-entrant flow-shop scheduling problem 570–577
J.-S. Chen, J. C.-H. Pan and C.-M. Lin
- Prediction model building and feature selection with support vector machines in breast cancer diagnosis 578–587
C.-L. Huang, H.-C. Liao and M.-C. Chen
- Combining radial basis function neural network and genetic algorithm to improve HDD driver IC chip scale package assembly yield 588–595
M. L. Huang and Y. H. Hung
- Course planning of extension education to meet market demand by using data mining techniques—an example of Chinkuo technology university in Taiwan 596–602
T.-C. Hsia, A.-J. Shie and L.-C. Chen
- Web service quality control based on text mining using support vector machine 603–610
S. Lo
- A unified framework for image compression and segmentation by using an incremental neural network 611–619
Z. Dokur
- Intelligent stock trading system by turning point confirming and probabilistic reasoning 620–627
D. Bao and Z. Yang
- Visualization and analysis of classifiers performance in multi-class medical data 628–634
B. Diri and S. Albayrak
- Computer-aided identification of mechanical system's technical state with the aid of case-based reasoning 635–642
O. A. Nikolaychuk and A. Y. Yurin
- Automatic tropical cyclone eye fix using genetic algorithm 643–656
K. Y. Wong, C. L. Yip and P. W. Li
- A neuro-fuzzy controller for speed control of a permanent magnet synchronous motor drive 657–664
C. Elmas, O. Ustun and H. H. Sayan
- Predicting service request in support centers based on nonlinear dynamics, ARMA modeling and neural networks 665–672
E. Balaguer, A. Palomares, E. Soria-Olivas and J. D. Martín-Guerrero
- Hierarchical classifier with overlapping class groups 673–682
I. T. Podolak
- A personalized English learning recommender system for ESL students 683–688
M.-H. Hsu
- Evidential reasoning approach for bridge condition assessment 689–699
Y.-M. Wang and T. M. S. Elhag

- Knowledge maps for composite e-services: a mining-based system platform coupling with recommendations 700–716
D.-R. Liu, C.-K. Ke, J.-Y. Lee and C.-F. Lee
- Model construction and parameter effect for TFT-LCD process based on yield analysis by using ANNs and stepwise regression 717–724
K.-L. Hsieh and Y.-S. Lu
- Investigation of the application of KMS for diseases classifications: a study in a Taiwanese hospital 725–733
H.-G. Hwang, I.-C. Chang, F.-J. Chen and S.-Y. Wu
- Knowledge management system performance measure index 734–745
S.-M. Tseng
- Enhancement of time-frequency properties of ECG for detecting micropotentials by wavelet transform based method 746–753
H. Tirtom, M. Engin and E. Z. Engin
- Feature selection for the SVM: an application to hypertension diagnosis 754–763
C.-T. Su and C.-H. Yang
- HYDES: a Web-based hydro turbine fault diagnosis system 764–772
G. Song, Y. He, F. Chu and Y. Gu
- Computer aided medical diagnosis system based on principal component analysis and artificial immune recognition system classifier algorithm 773–779
K. Polat and S. Günes
- Market segmentation based on hierarchical self-organizing map for markets of multimedia on demand 780–787
C. Hung and C.-F. Tsai
- Grouping of TRIZ inventive principles to facilitate automatic patent classification 788–795
H. Cong and L. H. Tong
- Java fuzzy kit (JFK): a shell to build fuzzy inference systems according to the generalized principle of extension 796–804
O. López-Ortega
- Vol. 34, No. 2**
- Articles**
- The exploration of consumers' behavior in choosing hospital by the application of neural network 806–816
W.-I. Lee, B.-Y. Shih and Y.-S. Chung
- A hybrid knowledge and model approach for reviewer assignment 817–824
Y.-H. Sun, J. Ma, Z.-P. Fan and J. Wang
- Comparison of classification accuracy using Cohen's weighted kappa 825–832
A. Ben-David
- Dynamic EMCUD for knowledge acquisition 833–844
S.-C. Lin, S.-S. Tseng and C.-W. Teng
- Hand geometry identification without feature extraction by general regression neural network 845–849
Ö. Polat and T. Yildirim
- Using GHSOM to construct legal maps for Taiwan's securities and futures markets 850–858
J.-Y. Shih, Y.-J. Chang and W.-H. Chen
- Classification method using fuzzy level set subgrouping 859–865
P. Kukkurainen and P. Luukka
- Neighborhood classifiers 866–876
Q. Hu, D. Yu and Z. Xie
- Toward supporting real-time mining for data residing on enterprise systems 877–888
Y.-C. Liu and P.-Y. Hsu
- KBSLUA: a knowledge-based system applied in river land use assessment 889–899
T.-Z. Lee, C.-H. Wu and H.-H. Wei
- Broadcast scheduling in wireless sensor networks using fuzzy Hopfield neural network 900–907
Y.-J. Shen and M.-S. Wang
- Software maintenance project delays prediction using Bayesian networks 908–919
A. C. V. de Melo and A. J. Sanchez
- An EP algorithm for stability analysis of interval neutral delay-differential systems 920–924
J.-J. Yan, M.-L. Hung and T.-L. Liao
- Forecast approach using neural network adaptation to support vector regression grey model and generalized auto-regressive conditional heteroscedasticity 925–934
B. R. Chang and H. F. Tsai
- Knowledge discovery in financial investment for forecasting and trading strategy through wavelet-based SOM networks 935–951
S.-T. Li and S.-C. Kuo
- The application of clustering analysis for the critical areas on TFT-LCD panel 952–957
K.-L. Hsieh
- The reevaluate statistical results of quality of life in patients with cerebrovascular disease using adaptive network-based fuzzy inference system 958–963
M. Tokmakçi, D. Ünalın, F. Soyuer and A. Öztürk
- Application of AI techniques for locating mobile terminals in mobile wireless cellular networks: a novel paging scheme 964–976
M. Maitra and A. Chatterjee
- Investigation on the model of consumers' perceived risk—integrated viewpoint 977–988
W.-B. Lin
- FCMAC-EWS: a bank failure early warning system based on a novel localized pattern learning and semantically associative fuzzy neural network 989–1003
G. S. Ng, C. Quek and H. Jiang
- Intelligent technical analysis based equivolume charting for stock trading using neural networks 1004–1017
T. Chavarnakul and D. Enke
- Aggressive or conservative, general or specific? A study of organizations adopting different learning strategies in an artificial world 1018–1027
T.-T. Lu, J.-C. Chen and G.-X. Liao
- An orthogonally filtered tree classifier based on non-linear kernel-based optimal representation of data 1028–1037
H.-W. Cho
- Prediction of wastewater treatment plant performance based on wavelet packet decomposition and neural networks 1038–1043
D. Hanbay, I. Türkoglu and Y. Demir
- Comparison of neuro-fuzzy systems for classification of transcranial Doppler signals with their chaotic invariant measures 1044–1055
A. Öztürk, A. Arslan and F. Hardalaç
- Comparison of envelope extraction algorithms for cardiac sound signal segmentation 1056–1069
S. Choi and Z. Jiang
- Searching customer patterns of mobile service using clustering and quantitative association rule 1070–1077
S. Y. Sohn and Y. Kim
- Rule-based intelligent adaptation in mobile information systems 1078–1092
S.-Y. Wu, C.-S. Chang, S.-H. Ho and H.-S. Chao
- Mining the data from a hyperheuristic approach using associative classification 1093–1101
F. A. Thabtah and P. I. Cowling
- Response modeling with support vector regression 1102–1108
D. Kim, H. Lee and S. Cho
- Implication of network size and structure on organizations' knowledge transfer 1109–1114
F. Tang, J. Mu and D. L. MacLachlan
- Back-propagation neural network based importance-performance analysis for determining critical service attributes 1115–1125
W.-J. Deng, W.-C. Chen and W. Pei

- Fuzzy time-series based on adaptive expectation model for TAIEX forecasting 1126–1132
C.-H. Cheng, T.-L. Chen, H. J. Teoh and C.-H. Chiang
- Proportionate flexible flow shop scheduling via a hybrid constructive genetic algorithm 1133–1143
D.-F. Shiau, S.-C. Cheng and Y.-M. Huang
- The inventory management system for automobile spare parts in a central warehouse 1144–1153
S. G. Li and X. Kuo
- Designing strategy for multi-agent system based large structural health monitoring 1154–1168
X. Zhao, S. Yuan, Z. Yu, W. Ye and J. Cao
- EP-based PID control design for chaotic synchronization with application in secure communication 1169–1177
H.-C. Chen, J.-F. Chang, J.-J. Yan and T.-L. Liao
- Discovering during-temporal patterns (DTPs) in large temporal databases 1178–1189
L. Zhang, G. Chen, T. Brijs and X. Zhang
- Estimation of bladder muscle invasion in transitional cell carcinoma by using artificial neural networks: a study based on prebiopsy imaging findings 1190–1193
M. Tokmakçi, N. Erdogan, N. Sahin, H. Akgun and O. Ekmekcioglu
- A particle swarm optimization approach to nonlinear rational filter modeling 1194–1199
Y.-L. Lin, W.-D. Chang and J.-G. Hsieh
- A recommender system using GA K-means clustering in an online shopping market 1200–1209
K.-J. Kim and H. Ahn
- Improved kernel principal component analysis for fault detection 1210–1219
P. Cui, J. Li and G. Wang
- Input data for decision trees 1220–1226
S. Piramuthu
- Comparison of the decision tree, artificial neural network, and linear regression methods based on the number and types of independent variables and sample size 1227–1234
Y. S. Kim
- Multi-attribute fuzzy time series method based on fuzzy clustering 1235–1242
C.-H. Cheng, G.-W. Cheng and J.-W. Wang
- IMM fuzzy probabilistic data association algorithm for tracking maneuvering target 1243–1249
I. Turkmen
- Value-added treatment inference model for rule-based certainty knowledge 1250–1265
M.-Y. Cheng and C.-J. Huang
- Predicting opponent's moves in electronic negotiations using neural networks 1266–1273
R. Carbonneau, G. E. Kersten and R. M. Vahidov
- Clustering people according to their preference criteria 1274–1284
J. Díez, J. J. del Coz, O. Luaces and A. Bahamonde
- A hierarchical genetic algorithm for segmentation of multi-spectral human-brain MRI 1285–1295
J.-Y. Yeh and J. C. Fu
- Introducing a decision tree-based indoor positioning technique 1296–1302
J. Yim
- A hybrid approach to supplier selection for the maintenance of a competitive supply chain 1303–1311
S. H. Ha and R. Krishnan
- Detection of traumatic brain injuries using fuzzy logic algorithm 1312–1317
I. Güler, A. Tunca and E. Gülbandır
- SAMAP: an user-oriented adaptive system for planning tourist visits 1318–1332
L. A. Castillo, E. Armengol, E. Onaindia, L. Sebastia, J. González-Boticario, A. Rodríguez, S. Fernández, J. D. Arias and D. Borrajo
- Support vector machine-based multi-source multi-attribute information integration for situation assessment 1333–1340
J. Lu, X. Yang and G. Zhang
- A hybrid cooperative-comprehensive learning based PSO algorithm for image segmentation using multilevel thresholding 1341–1350
M. Maitra and A. Chatterjee
- Ontologies and agents for a bus fleet management system 1351–1365
M.-V. Belmonte, J.-L. Pérez-de-la-Cruz and F. T. Ruiz
- A two-level approach to choose the cost parameter in support vector machines 1366–1370
Y. Dong, Z. Xia and Z. Xia
- A better estimate to the contribution rate of education on economic growth in China from 1999 to 2003 1371–1383
K. Zhu, H. Guo, F. Diao and S. Xu
- Classifier design with feature selection and feature extraction using layered genetic programming 1384–1393
J.-Y. Lin, H.-R. Ke, B.-C. Chien and W.-P. Yang
- Dynamic stereoscopic selective visual attention (DSSVA): integrating motion and shape with depth in video segmentation 1394–1402
A. Fernández-Caballero, M. T. López and S. Saiz-Valverde
- Probabilistic based recursive model for adaptive processing of data structures 1403–1422
S.-Y. Cho
- Integrating intra-firm and inter-firm knowledge diffusion into the knowledge diffusion model 1423–1433
C.-M. Tsai
- Credit risk assessment with a multistage neural network ensemble learning approach 1434–1444
L. Yu, S. Wang and K. K. Lai
- Automatic expert identification using a text categorization technique in knowledge management systems 1445–1455
K.-W. Yang and S.-Y. Huh
- A threshold varying bisection method for cost sensitive learning in neural networks 1456–1464
P. C. Pendharkar
- The application of extension neuro-network on computer-assisted lip-reading recognition for hearing impaired 1465–1473
Y. L. Lay, C.-H. Tsai, H.-J. Yang, C.-S. Lin and C.-Z. Lai
- TextOntoEx: automatic ontology construction from natural English text 1474–1480
M. Y. Dahab, H. A. Hassan and A. A. Rafea
- Post-pruning in regression tree induction: an integrated approach 1481–1490
K.-M. Osei-Bryson
- A simulated-annealing-based approach for simultaneous parameter optimization and feature selection of back-propagation networks 1491–1499
S.-W. Lin, T.-Y. Tseng, S.-Y. Chou and S.-C. Chen
- A formal modeling platform for composing Web services 1500–1507
Y.-L. Chi and H.-M. Lee
- The effect of knowledge sharing model 1508–1521
W.-B. Lin
- On decision making support in blood bank information systems 1522–1532
B. N. Li, M.-C. Dong and S. Chao
- Fast blocking of undesirable Web pages on client PC by discriminating URL using neural networks 1533–1540
H. Ma
- Configuration change assessment: genetic optimization approach with fuzzy multiple criteria for part supplier selection decisions 1541–1555
H. S. Wang

- Development of a drowsiness warning system based on the fuzzy logic images analysis 1556–1561
J.-D. Wu and T.-R. Chen
- A novel method for shelf life prediction of a packaged moisture sensitive snack using multilayer perceptron neural network 1562–1567
U. Stripatrawan and P. Jantawat
- Increasing the discriminatory power of DEA in the presence of the sample heterogeneity with cluster analysis and decision trees 1568–1581
S. Samoilenko and K.-M. Osei-Bryson
- Erratum to “Temperature prediction and TAIFEX forecasting based on high-order fuzzy logical relationships and genetic simulated annealing techniques” [Expert Systems with Applications 34 (1), 2008: 328–336] 1582
L.-W. Lee, L.-H. Wang and S.-M. Chen
- Erratum to “Utility-based double auction mechanism using genetic algorithms” [Expert Systems with Applications 34 (1), 2008: 150–158] 1583
J. H. Choi, H. Ahn and I. Han
- Vol. 34, No. 3**
- Articles**
- Automated design system for drawing dies 1586–1598
B.-T. Lin and S.-H. Hsu
- An incremental cluster-based approach to spam filtering 1599–1608
W.-F. Hsiao and T.-M. Chang
- A simulated annealing algorithm for manufacturing cell formation problems 1609–1617
T.-H. Wu, C.-C. Chang and S.-H. Chung
- Developing an intelligent Web information system for minimizing information gap in government agencies and public institutions 1618–1629
T.-H. Kim, G. H. Hong and S.-C. Park
- Optimizing back-propagation networks via a calibrated heuristic algorithm with an orthogonal array 1630–1641
T.-Y. Wang and C.-Y. Huang
- Applying associative theory to need awareness for personalized reminder system 1642–1650
O. Kwon and S. Choi
- A novel method for measuring semantic similarity for XML schema matching 1651–1658
B. Jeong, D. Lee, H. Cho and J. Lee
- DDoS attack detection method using cluster analysis 1659–1665
K. Lee, J. Kim, K. H. Kwon, Y. Han and S. Kim
- Recommending trusted online auction sellers using social network analysis 1666–1679
J.-C. Wang and C.-C. Chiu
- A fuzzy agent-based model for reduction of bullwhip effect in supply chain systems 1680–1691
M. H. F. Zarandi, M. Pourakbar and I. B. Türksen
- A self tuning model for risk estimation 1692–1697
R. J. Elliott and A. Filinkov
- Learning cross-level certain and possible rules by rough sets 1698–1706
T.-P. Hong, C.-E. Lin, J.-H. Lin and S.-L. Wang
- Seeding the survey and analysis of research literature with text mining 1707–1720
D. Delen and M. D. Crossland
- Random forests for multiclass classification: random multinomial logit 1721–1732
A. Prinzie and D. Van den Poel
- An impulsive noise reduction agent for rigid body motion data using B-spline wavelets 1733–1741
C.-C. Hsieh and P.-L. Kuo
- An expert system to derive carryover effect for pharmaceutical sales detailing optimization 1742–1753
J. C. Yi
- A hybridized approach to data clustering 1754–1762
Y.-T. Kao, E. Zahara and I.-W. Kao
- Mining customer knowledge for product line and brand extension in retailing 1763–1776
S.-H. Liao, C.-M. Chen and C.-H. Wu
- A three-stage integrated approach for assembly sequence planning using neural networks 1777–1786
W.-C. Chen, P.-H. Tai, W.-J. Deng and L.-F. Hsieh
- Computer-aided machine-tool selection based on a Fuzzy-AHP approach 1787–1794
O. Duran and J. Aguilo
- Design of a knowledge-based performance evaluation system: a case of high-tech state-owned enterprises in an emerging economy 1795–1803
W.-K. Wang, H.-C. Huang and M.-C. Lai
- Visualization of patent analysis for emerging technology 1804–1812
Y. G. Kim, J. H. Suh and S.-C. Park
- A fuzzy logic approach to forecast energy consumption change in a manufacturing system 1813–1824
H. C. W. Lau, E. N. M. Cheng, C. K. M. Lee and G. T. S. Ho
- An application of rule-based tool in attributive logic for business rules modeling 1825–1836
A. Maciol
- Applying FMCDM to evaluate financial performance of domestic airlines in Taiwan 1837–1845
Y.-J. Wang
- Evaluation of ANN and SVM classifiers as predictors to the diagnosis of students with learning disabilities 1846–1856
T.-K. Wu, S.-C. Huang and Y.-R. Meng
- Using ontology network analysis for research document recommendation 1857–1869
S.-S. Weng and H.-L. Chang
- A fuzzy goal programming approach with priority for channel allocation problem in steel industry 1870–1876
K.-M. Tsai, S.-Y. You, Y.-H. Lin and C.-H. Tsai
- Supervisory expert control for ball mill grinding circuits 1877–1885
X. Chen, Q. Li and S. Fei
- Evolutionary selection of model for time constrained decision problems: a GA approach 1886–1892
C.-C. Lee and S.-H. Doong
- Web usage mining with intentional browsing data 1893–1904
Y.-H. Tao, T.-P. Hong and Y.-M. Su
- Use of chaotic sequences in a biologically inspired algorithm for engineering design optimization 1905–1913
L. dos Santos Coelho and V. C. Mariani
- Recognition of semiconductor defect patterns using spatial filtering and spectral clustering 1914–1923
C.-H. Wang
- Hybrid tabu search for re-entrant permutation flow-shop scheduling problem 1924–1930
J.-S. Chen, J. C.-H. Pan and C.-K. Wu
- An intelligent assistant for designing distribution transformers 1931–1937
C. Hernandez and M. A. Arjona
- Partial discharge pattern classification using composite versions of probabilistic neural network inference engine 1938–1947
B. Karthikeyan, S. Gopal and S. Venkatesh
- Multilabel text categorization based on a new linear classifier learning method and a category-sensitive refinement method 1948–1953
Y.-C. Chang, S.-M. Chen and C.-J. Liao
- Wavelet/mixture of experts network structure for EEG signals classification 1954–1962
E. D. Übeyli
- Intelligent physician segmentation and management based on KDD approach 1963–1973
C. Lin, C.-M. Lin, S.-T. Li and S.-C. Kuo
- Decision support in construction equipment management using a nonparametric outlier mining algorithm 1974–1982
H. Fan, H. Kim, S. M. AbouRizk and S. Heon Han

- A case study: the prediction of Taiwan's export of polyester fiber using small-data-set learning methods 1983–1994
D.-C. Li, C.-W. Yeh and Z.-Y. Li
- Swarm intelligence applied in synthesis of hunting strategies in a three-dimensional environment 1995–2003
E. G. Castro and M. S. G. Tsuzuki
- Extracting social laws from unilateral binary constraint relation topologies in multiagent systems 2004–2012
Y. Jiang
- An algorithm to cluster data for efficient classification of support vector machines 2013–2018
D.-C. Li and Y.-H. Fang
- Apply ontology and agent technology to construct virtual observatory 2019–2028
R.-S. Chen and D.-K. Chen
- Discovering cohesive subgroups from social networks for targeted advertising 2029–2038
W.-S. Yang and J.-B. Dia
- Artificial immune recognition system with fuzzy resource allocation mechanism classifier, principal component analysis and FFT method based new hybrid automated identification system for classification of EEG signals 2039–2048
K. Polat and S. Günes
- A fuzzy case-based reasoning model for sales forecasting in print circuit board industries 2049–2058
P.-C. Chang, C.-H. Liu and K. R. Lai
- Optimization of a passive harmonic filter based on the neural-genetic algorithm with fuzzy logic for a steel manufacturing plant 2059–2070
Y.-P. Chang and C. Low
- Multiprocessor system scheduling with precedence and resource constraints using an enhanced ant colony system 2071–2081
S.-T. Lo, R.-M. Chen, Y.-M. Huang and C.-L. Wu
- A group recommendation system with consideration of interactions among group members 2082–2090
Y.-L. Chen, L.-C. Cheng and C.-N. Chuang
- Regression via classification applied on software defect estimation 2091–2101
S. Bibi, G. Tsoumakas, I. Stamelos and I. P. Vlahavas
- Proposing an ESL recommender teaching and learning system 2102–2110
M.-H. Hsu
- Takagi-Sugeno neural fuzzy modeling approach to fluid dispensing for electronic packaging 2111–2119
C. K. Kwong, K. Y. Chan and H. Wong
- Wavelet transform and adaptive neuro-fuzzy inference system for color texture classification 2120–2128
A. Sengür
- Modelling of colour perception of different age groups using artificial neural networks 2129–2139
E. Kose
- A novel approach for digital radio signal classification: wavelet packet energy-multiclass support vector machine (WPE-MSVM) 2140–2147
E. Avcı and D. Avcı
- The study of applying ANP model to assess dispatching rules for wafer fabrication 2148–2163
Y.-H. Lin, C.-C. Chiu and C.-H. Tsai
- A MCDM-based expert system for climate-change impact assessment and adaptation planning—a case study for the Georgia Basin, Canada 2164–2179
X. S. Qin, G. H. Huang, A. Chakma, X. H. Nie and Q. G. Lin
- Expert system for operation optimization and control of cutter suction dredger 2180–2192
J.-Z. Tang, Q.-F. Wang and Z.-Y. Bi
- A two-level relevance feedback mechanism for image retrieval 2193–2200
P.-C. Cheng, B.-C. Chien, H.-R. Ke and W.-P. Yang
- Adaptive neuro-fuzzy inference system employing wavelet coefficients for detection of ophthalmic arterial disorders 2201–2209
E. D. Übeyli
- Using expert technology to select unstable slicing machine to control wafer slicing quality via fuzzy AHP 2210–2220
C.-W. Chang, C.-R. Wu and H.-C. Chen
- A DS-AHP approach for multi-attribute decision making problem with incomplete information 2221–2227
Z. Hua, B. Gong and X. Xu
- Corrigendum to “MM-DSS: integrating multimedia and decision-making knowledge in decision support systems” [Expert Systems with Applications 32 (2), 2007: 441–457] 2228
O. Kwon, K.-Y. Kim and K. C. Lee
- Corrigendum to “MACE-SCM: a multi-agent and case-based reasoning collaboration mechanisms for supply chain management under supply and demand uncertainties” [Expert Systems with Applications 33 (3), 2007: 690–705] 2229
O. Kwon, G. P. Im and K. C. Lee
- Vol. 34, No. 4**
Articles
- Expert systems and evolutionary computing for financial investing: a review 2232–2240
R. Rada
- A decision support system for supplier selection based on a strategy-aligned fuzzy SMART approach 2241–2253
S.-Y. Chou and Y.-H. Chang
- A JESS-enabled context elicitation system for providing context-aware Web services 2254–2266
S. J. H. Yang, J. Zhang and I. Y. L. Chen
- DADICC: intelligent system for anomaly detection in a combined cycle gas turbine plant 2267–2277
A. L. A. Matia, A. Cruz, M. A. Sanz-Bobi, P. Ruiz and J. Coutiño
- An expert system based on wavelet decomposition and neural network for modeling Chua's circuit 2278–2283
D. Hanbay, I. Türkoglu and Y. Demir
- Grey prediction on indoor comfort temperature for HVAC systems 2284–2289
T. Leephakpreeda
- Structure clustering for Chinese patent documents 2290–2297
S.-H. Huang, H.-R. Ke and W.-P. Yang
- Personalized Web-based tutoring system based on fuzzy item response theory 2298–2315
C.-M. Chen and L.-J. Duh
- Applications of wavelet data reduction in a recommender system 2316–2325
S. Russell and V. Y. Yoon
- Detecting attack signatures in the real network traffic with ANNIDA 2326–2333
L. de Sá Silva, A. C. F. dos Santos, T. D. Mancilha, J. D. S. da Silva and A. Montes
- Novel yield model for integrated circuits with clustered defects 2334–2341
L.-I. Tong and L.-C. Chao
- An empirical study of the effects of knowledge sharing and learning behaviors on firm performance 2342–2349
C. C. H. Law and E. W. T. Ngai
- A novel approach for discovering retail knowledge with price information from transaction databases 2350–2359
Y.-L. Chen, T. C. K. Huang and S.-K. Chang
- Prediction of vehicle reliability performance using artificial neural networks 2360–2369
S. Lolas and O. A. Olatunbosun
- A dynamic and automatic traffic light control expert system for solving the road congestion problem 2370–2381
W. Wen

- Retrieval of movie scenes by semantic matrix and automatic feature weight update 2382–2395
H.-W. Yoo
- A novel collaborative filtering approach for recommending ranked items 2396–2405
Y.-L. Chen and L.-C. Cheng
- Compact fuzzy association rule-based classifier 2406–2416
F. P. Pach, A. Gyenesei and J. Abonyi
- Design of BOM configuration for reducing spare parts logistic costs 2417–2423
M.-C. Wu and Y.-K. Hsu
- Incrementally fast updated frequent pattern trees 2424–2435
T.-P. Hong, C.-W. Lin and Y.-L. Wu
- Applicability of feed-forward and recurrent neural networks to Boolean function complexity modeling 2436–2443
A. Beg, P. W. C. Prasad and A. Beg
- Genetic optimization of GRNN for pattern recognition without feature extraction 2444–2448
Ö. Polat and T. Yildirim
- Using a style-based ant colony system for adaptive learning 2449–2464
T.-I. Wang, K.-T. Wang and Y.-M. Huang
- AptaCDSS-E: a classifier ensemble-based clinical decision support system for cardiovascular disease level prediction 2465–2479
J.-H. Eom, S.-C. Kim and B.-T. Zhang
- Multi-criteria human resource allocation for solving multistage combinatorial optimization problems using multiobjective hybrid genetic algorithm 2480–2490
C.-M. Lin and M. Gen
- Neural network based method for image halftoning and inverse halftoning 2491–2501
W.-B. Huang, A. W.-Y. Su and Y.-H. Kuo
- Using multi-population intelligent genetic algorithm to find the pareto-optimal parameters for a nano-particle milling process 2502–2510
C.-H. Su and T.-H. (Tony) Hou
- Automated end-user behaviour assessment tool for remote product and system testing 2511–2523
B. Dolunay and A. Akgunduz
- Modular design to support green life-cycle engineering 2524–2537
H.-E. Tseng, C.-C. Chang and J.-D. Li
- Recurrent neural networks employing Lyapunov exponents for analysis of Doppler ultrasound signals 2538–2544
E. D. Übeyli
- A new approach on search for similar documents with multiple categories using fuzzy clustering 2545–2554
R. Saraçoğlu, K. Tütüncü and N. Allahverdi
- An in-process customer utility prediction system for product conceptualisation 2555–2567
C.-H. Chen and W. Yan
- Forecasting the number of outpatient visits using a new fuzzy time series based on weighted-transitional matrix 2568–2575
C.-H. Cheng, J.-W. Wang and C.-H. Li
- A nature inspired Ying-Yang approach for intelligent decision support in bank solvency analysis 2576–2587
M. N. Nguyen, D. Shi and C. Quek
- A weighted string pattern matching-based passage ranking algorithm for video question answering 2588–2600
Y.-C. Wu, J.-C. Yang and Y.-S. Lee
- Adaptive wavelet network for multiple cardiac arrhythmias recognition 2601–2611
C.-H. Lin, Y.-C. Du and T. Chen
- Diversity of quantum optimizations for training adaptive support vector regression and its prediction applications 2612–2621
B. R. Chang, H. F. Tsai and C.-P. Young
- An empirical study of sentiment analysis for Chinese documents 2622–2629
S. Tan and J. Zhang
- A fuzzy logic approach for dealing with qualitative quality characteristics of a process 2630–2638
K. Tahera, R. N. Ibrahim and P. B. Lochert
- Using neural network ensembles for bankruptcy prediction and credit scoring 2639–2649
C.-F. Tsai and J.-W. Wu
- Determination of optimal hierarchical fuzzy controller parameters according to loading condition with ANN 2650–2655
M. Caner, N. Umrkan, S. Tokat and S. V. Üstün
- Timing of resources exploration in the behavior of firm—Innovative approach and empirical simulation 2656–2663
H. F. Tsai and B. R. Chang
- ENIGMA—Enhanced interactive general movement assessment 2664–2672
P. R. Berge, L. Adde, G. Espinosa and Ø. Stavdahl
- Intra-sentence segmentation based on support vector machines in English–Korean machine translation systems 2673–2682
Y. Kim and Y.-J. Oh
- On-demand e-supply chain integration: a multi-agent constraint-based approach 2683–2692
M. Wang, J. Liu, H. Wang, W. K. Cheung and X.-F. Xie
- A systematic methodology for the creation of Six Sigma projects: a case study of semiconductor foundry 2693–2703
C.-T. Su and C.-J. Chou
- An expert system for fault diagnosis in internal combustion engines using probability neural network 2704–2713
J.-D. Wu, P.-H. Chiang, Y.-W. Chang and Y.-J. Shiao
- Optimal tuning of PI coefficients by using fuzzy-genetic for V/f controlled induction motor 2714–2720
S. V. Ustun and M. Demirtas
- Taxonomy alignment for interoperability between heterogeneous virtual organizations 2721–2731
J. J. Jung
- Constructing and applying an improved fuzzy time series model: taking the tourism industry for example 2732–2738
C.-H. Wang and L.-C. Hsu
- Tissue segmentation in ultrasound images by using genetic algorithms 2739–2746
Z. Dokur and T. Ölmez
- A frequency assessment expert system of piezoelectric transducers in paucity of data 2747–2753
F. M. Chang and Y.-C. Chen
- Intelligent value-based customer segmentation method for campaign management: a case study of automobile retailer 2754–2762
C.-C. (Henry) Chan
- Fuzzy risk analysis based on fuzzy numbers with different shapes and different deviations 2763–2771
L.-W. Lee and S.-M. Chen
- Assisting novice software designers by an expert designer agent 2772–2782
L. Berdún, J. A. Díaz Pace, A. Amandi and M. Campo
- Rule effectiveness in rule-based systems: a credit scoring case study 2783–2788
A. Ben-David
- Adaptive output feedback tracking control of robot manipulators using position measurements only 2789–2798
S. Purwar, I. N. Kar and A. N. Jha
- Detection of heart valve diseases by using fuzzy discrete hidden Markov model 2799–2811
H. Uguz, A. Arslan, R. Saraçoğlu and I. Türkoglu
- SIKey: a tool to generate secondary identification keys for targeted diagnosis 2812–2818
X.-B. Zhang, X.-X. Chen and J.-A. Cheng

- Online option price forecasting by using unscented Kalman filters and support vector machines 2819–2825
S.-C. Huang
- A Delphi-based approach to developing expert systems with the cooperation of multiple experts 2826–2840
H.-C. Chu and G.-J. Hwang
- Integration of independent component analysis and neural networks for ECG beat classification 2841–2846
S.-N. Yu and K.-T. Chou
- Knowledge representation for diagnosis of care problems through an expert system: model of the auto-care deficit situations 2847–2857
M. L. Jiménez, J. M. Santamaría, R. Barchino, L. Laita, L. M. Laita, L. A. González and A. Asenjo
- An efficient bit-based feature selection method 2858–2869
W.-C. Chen, S.-S. Tseng and T.-P. Hong
- Application of wrapper approach and composite classifier to the stock trend prediction 2870–2878
C.-J. Huang, D.-X. Yang and Y.-T. Chuang
- Automatic feature-queried bird identification system based on entropy and fuzzy similarity 2879–2884
X. Wang, T. Schnier and X. Yao
- An iterative approach to enhanced traffic signal optimization 2885–2890
Y. K. Wong and W. L. Woon
- Search spaces representation in optimization problems 2891–2895
P. Pareja-Tobes, D. A. Pelta, A. Sancho-Royo and J. L. Verdegay
- Data differentiation and parameter analysis on the weight changes of premature babies with an artificial neuromolecular system 2896–2904
J.-C. Chen and G.-X. Liao
- An improved fuzzy neural network based on T-S model 2905–2920
M. Han, Y. Sun and Y. Fan
- A computing coordination based fuzzy group decision-making (CC-FGDM) for Web service oriented architecture 2921–2936
M.-J. Tsai and C.-S. Wang
- Energy and entropy-based feature extraction for locating fault on transmission lines by using neural network and wavelet packet decomposition 2937–2944
S. Ekici, S. Yildirim and M. Poyraz
- A bivariate fuzzy time series model to forecast the TAIEX 2945–2952
T. H.-K. Yu and K.-H. Huarng
- A new approach to exploratory analysis of system dynamics using SOM applications to industrial processes 2953–2965
I. Díaz, M. Domínguez, A. A. Cuadrado Vega and J. J. Fuertes-Martínez
- LACO: a location-aware cooperative query system for securely personalized services 2966–2975
O. Kwon and M. K. Shin
- Hand image recognition by the techniques of hand shape scaling and image weight scaling 2976–2987
C.-L. Su
- Web mining based on growing hierarchical self-organizing maps: analysis of a real citizen Web portal 2988–2994
A. Soriano-Asensi, J. D. Martín-Guerrero, E. Soria-Olivas, A. Palomares, J. R. M. Benedito and A. J. Serrano-López
- Collaborative recommender systems: combining effectiveness and efficiency 2995–3013
P. Symeonidis, A. Nanopoulos, A. N. Papadopoulos and Y. Manolopoulos
- Flexible patient rule induction method for optimizing process variables in discrete type 3014–3020
I.-G. Chong and C.-H. Jun
- An approach to mining the multi-relational imbalanced database 3021–3032
C.-I. Lee, C.-J. Tsai, T.-Q. Wu and W.-P. Yang
- Developing an index for online customer satisfaction: adaptation of American Customer Satisfaction Index 3033–3042
S.-H. Hsu
- Predicting stock index increments by neural networks: The role of trading volume under different horizons 3043–3054
X. Zhu, H. Wang, L. Xu and H. Li
- A time-based approach to effective recommender systems using implicit feedback 3055–3062
T.-Q. Lee, Y. Park and Y.-T. Park
- Comparative analysis of the organisational learning process in Slovenia, Croatia, and Malaysia 3063–3070
V. Dimovski, M. Skerlavaj, M. Kimman and T. Hernaus
- Ant-based IP traceback 3071–3080
G. H. Lai, C.-M. Chen, B. Jeng and W. Chao
- Forecasting financial condition of Chinese listed companies based on support vector machine 3081–3089
Y. Ding, X. Song and Y. Zen
- Fault diagnostics of roller bearing using kernel based neighborhood score multi-class support vector machine 3090–3098
V. Sugumaran, G. R. Sabareesh and K. I. Ramachandran
- An adaptive neuro-fuzzy inference system for bridge risk assessment 3099–3106
Y.-M. Wang and T. M. S. Elhag

IEEE Transactions on Evolutionary Computation

Vol. 12, No. 1

Articles

- An artificial immune system heuristic for generating short addition chains 1–24
N. C. Cortés, F. Rodríguez-Henríquez and C. A. C. Coello
- Applying a traffic lights evolutionary optimization technique to a real case: ‘Las Ramblas’ area in Santa Cruz de Tenerife 25–40
J. J. Sanchez-Medina, M. J. Galán and E. Rubio
- RM-MEDA: a regularity model-based multiobjective estimation of distribution algorithm 41–63
Q. Zhang, A. Zhou and Y. Jin
- Opposition-based differential evolution 64–79
S. Rahnamayan, H. R. Tizhoosh and M. M. A. Salama
- An adaptive tradeoff model for constrained evolutionary optimization 80–92
Y. Wang, Z. Cai, Y. Zhou and W. Zeng

- Evolving output codes for multiclass problems 93–106
N. García-Pedrajas and C. Fyfe

- Accelerating differential evolution using an adaptive local search 107–125

N. Noman and H. Iba

Vol. 12, No. 2

Articles

- An AM radio receiver designed with a genetic algorithm based on a bacterial conjugation genetic operator 129–142
C. Perales-Graván and R. Lahoz-Beltra
- A jumping gene paradigm for evolutionary multi-objective optimization 143–159
T.-M. Chan, K.-F. Man, K.-S. Tang and S. Kwong
- HAL-based evolutionary inference for pattern induction from psychiatry Web resources 160–170
L.-C. Yu, C.-H. Wu, J.-F. Yeh and F.-L. Jang

- Particle swarm optimization: basic concepts, variants and applications in power systems 171–195
Y. del Valle, G. K. Venayagamoorthy, S. Mohagheghi, J.-C. Hernandez and R. G. Harley
- Rolling system design using evolutionary sequential process optimization 196–202
A. Tiwari, V. Oduguwa and R. Roy
- Real-valued compact genetic algorithms for embedded microcontroller optimization 203–219
E. Mininno, F. Cupertino and D. Naso
- The self-organization of interaction networks for nature-inspired optimization 220–230
J. M. Whitacre, R. A. Sarker and Q. T. Pham
- Quantum genetic optimization 231–241
A. Malossini, E. Blanzieri and T. Calarco
- Effective learning rate adjustment of blind source separation based on an improved particle swarm optimizer 242–251
S.-T. Hsieh, T.-Y. Sun, C.-L. Lin and C.-C. Liu
- Genetic-fuzzy data mining with divide-and-conquer strategy 252–265
T.-P. Hong, C.-H. Chen, Y.-C. Lee and Y.-L. Wu
- Vol. 12, No. 3**
Articles
- A simulated annealing-based multiobjective optimization algorithm: AMOSA 269–283
S. Bandyopadhyay, S. Saha, U. Maulik and K. Deb
- Registration of CT and intraoperative 3-D ultrasound images of the spine using evolutionary and gradient-based methods 284–296
S. Winter, B. Brendel, I. Pechlivanis, K. Schmieder and C. Igel
- An evolutionary algorithm to find associations in dense genetic maps 297–306
T. G. Clark, M. De Iorio and R. C. Griffiths
- On the scalability of real-coded Bayesian optimization algorithm 307–322
C. W. Ahn and R. S. Ramakrishna
- Dominance-based multiobjective simulated annealing 323–342
K. I. Smith, R. M. Everson, J. E. Fieldsend, C. Murphy and R. Misra
- Ergonomic chair design by fusing qualitative and quantitative criteria using interactive genetic algorithms 343–354
A. M. Brintrup, J. Ramsden, H. Takagi and A. Tiwari
- Function approximation with XCS: hyperellipsoidal conditions, recursive least squares, and compaction 355–376
M. V. Butz, P. L. Lanzi and S. W. Wilson
- An evolutionary algorithm approach to optimal ensemble classifiers for dna microarray data analysis 377–388
K.-J. Kim and S.-B. Cho
- An explicit selection intensity of tournament selection-based genetic algorithms 389–391
S. Nadarajah
- Errata to “RM-MEDA: a regularity model-based multiobjective estimation of distribution algorithm” [Feb 2008, 41–63] 392
Q. Zhang, A. Zhou and Y. Jin
- Vol. 12, No. 4**
Articles
- The automatic acquisition, evolution and reuse of modules in Cartesian genetic programming 397–417
J. A. Walker and J. F. Miller
- Protein folding in simplified models with estimation of distribution algorithms 418–438
R. Santana, P. Larrañaga and J. A. Lozano
- AbYSS: adapting scatter search to multiobjective optimization 439–457
A. J. Nebro, F. Luna, E. Alba, B. Dorronsoro, J. J. Durillo and A. Beham
- Training distributed GP ensemble with a selective algorithm based on clustering and pruning for pattern classification 458–468
G. Folino, C. Pizzuti and G. Spezzano
- Genetic programming approaches for solving elliptic partial differential equations 469–478
A. Sobester, P. B. Nair and A. J. Keane
- Measuring generalization performance in coevolutionary learning 479–505
S. Y. Chong, P. Tino and X. Yao
- Crossover-based tree distance in genetic programming 506–524
S. Gustafson and L. Vanneschi
- Vol. 12, No. 5**
Articles
- Multiobjective particle swarm algorithm with fuzzy clustering for electrical power dispatch 529–541
S. Agrawal, B. K. Panigrahi and M. K. Tiwari
- Population-based incremental learning with associative memory for dynamic environments 542–561
S. Yang and X. Yao
- Fast and robust face detection using evolutionary pruning 562–571
J.-S. Jang and J.-H. Kim
- A multiobjective evolutionary-simplex hybrid approach for the optimization of differential equation models of gene networks 572–590
P. Koduru, Z. Dong, S. Das, S. Welch, J. L. Roe and E. Charbit
- A drug candidate design environment using evolutionary computation 591–603
M. I. Ecemis, J. Wikel, C. Bingham and E. Bonabeau
- Normalization for genetic algorithms with non-synonymously redundant encodings 604–616
S.-S. Choi and B. R. Moon
- Darwinian, Lamarckian, and Baldwinian (co)evolutionary approaches for feature weighting in K-means-based algorithms 617–629
P. Gañcarski and A. Blansché
- Moving block sequence and organizational evolutionary algorithm for general floorplanning with arbitrarily shaped rectilinear blocks 630–646
J. Liu, W. Zhong, L. Jiao and X. Li
- Fingerprinting: visualization and automatic analysis of prisoner’s dilemma strategies 647–659
D. A. Ashlock and E.-Y. Kim
- Vol. 12, No. 6**
Articles
- Efficient evolution of accurate classification rules using a combination of gene expression programming and clonal selection 662–678
V. K. Karakasis and A. Stafylopatis
- A multiobjective evolutionary conceptual clustering methodology for gene annotation within structural databases: a case of study on the gene ontology database 679–701
R. Romero-Zález, C. Rubio-Escudero, J. P. Cobb, F. Herrera, O. Cerdón and I. Zwir
- Biogeography-based optimization 702–713
D. Simon
- A fast incremental hypervolume algorithm 714–723
L. Bradstreet, R. L. While and L. Barone
- Binary string fitness characterization and comparative partner selection in genetic programming 724–735
P. Day and A. K. Nandi
- Coevolution of fitness predictors 736–749
M. D. Schmidt and H. Lipson
- A Bayesian network approach to program generation 750–764
Y. Hasegawa and H. Iba
- Item-location assignment using fuzzy logic guided genetic algorithms 765–780
H. C. W. Lau, T. M. Chan and W. T. Tsui

Corrections to "A robust stochastic genetic algorithm (StGA) for global numerical optimization" 781
Z. Tu and Y. Lu

Erratum to "Dominance-based multiobjective simulated annealing" 781
Z. Tu and Y. Lu

IEEE Transactions on Knowledge and Data Engineering

Vol. 20, No. 1

Articles

- SRDA: an efficient algorithm for large-scale discriminant analysis 1–12
D. Cai, X. He and J. Han
- Monitoring high-dimensional data for failure detection and localization in large-scale computing systems 13–25
H. Chen, G. Jiang and K. Yoshihira
- Neural-based learning classifier systems 26–39
H. H. Dam, H. A. Abbass, C. Lokan and X. Yao
- Efficient similarity search over future stream time series 40–54
X. Lian and L. Chen
- Label propagation through linear neighborhoods 55–67
F. Wang and C. Zhang
- Discovering frequent agreement subtrees from phylogenetic data 68–82
S. Zhang and J. T.-L. Wang
- Maximal subspace coregulated gene clustering 83–98
Y. Zhao, J. X. Yu, G. Wang, L. Chen, B. Wang and G. Yu
- An exploratory study of database integration processes 99–115
J. Evermann
- Watermarking relational databases using optimization-based techniques 116–129
M. Shehab, E. Bertino and A. Ghafoor
- Visualization of ontologies to specify semantic descriptions of services 130–134
J. J. Samper, V. R. Tomás, E. Carrillo and R. P. C. do Nascimento

Vol. 20, No. 2

Articles

- Eliciting consumer preferences using robust adaptive choice questionnaires 145–155
J. Abernethy, T. Evgeniou, O. Toubia and J.-P. Vert
- A lazy approach to associative classification 156–171
E. Baralis, S. Chiusano and P. Garza
- On modularity clustering 172–188
U. Brandes, D. Delling, M. Gaertler, R. Görke, M. Hofer, Z. Nikoloski and D. Wagner
- Learning a maximum margin subspace for image retrieval 189–201
X. He, D. Cai and J. Han
- A Web usage mining framework for mining evolving user profiles in dynamic Web sites 202–215
O. Nasraoui, M. Soliman, E. Saka, A. Badia and R. Germain
- Incremental maintenance of online summaries over multiple streams 216–229
F. Altıparmak, E. Tuncel and H. Ferhatosmanoglu
- A cost-based approach to adaptive resource management in data stream systems 230–245
M. Cammert, J. Krämer, B. Seeger and S. Vaupel
- Online index recommendations for high-dimensional databases using query workloads 246–260
M. Gibas, G. Canahuate and H. Ferhatosmanoglu
- Semantic ideation learning for agent-based e-brainstorming 261–275
S.-T. Yuan and Y.-C. Chen
- Distributed suffix tree overlay for peer-to-peer search 276–285
H. Zhuge and L. Feng

Vol. 20, No. 3

Articles

- Using incremental PLSI for threshold-resilient online event analysis 289–299
T.-C. Chou and M. C. Chen

- DryadeParent, an efficient and robust closed attribute tree mining algorithm 300–320
A. Termier, M.-C. Rousset, M. Sebag, K. Ohara, T. Washio and H. Motoda
- Efficient similarity search in nonmetric spaces with local constant embedding 321–336
L. Chen and X. Lian
- Materialized sample views for database approximation 337–351
S. Joshi and C. M. Jermaine
- Long-term cross-session relevance feedback using virtual features 352–368
P.-Y. Yin, B. Bhanu, K.-C. Chang and A. Dong
- On the design of distributed object placement and load balancing strategies in large-scale networked multimedia storage systems 369–382
Z. Zeng and B. Veeravalli
- A Lagrangian approach for multiple personalized campaigns 383–396
Y.-H. Kim, Y. Yoon and B. R. Moon
- A rule-based object-oriented OWL reasoner 397–410
G. Meditskos and N. Bassiliades
- Beyond single-page Web search results 411–424
R. Varadarajan, V. Hristidis and T. Li
- Characterizing the MVDs that hold in a connected subtree of a join tree: a correction 425–426
W. Y. Mok
- The efficacy of commutativity-based semantic locking in a real-world application 427–431
P. Wu, A. Fekete and U. Röhm

Vol. 20, No. 4

Articles

- A framework for mining sequential patterns from spatio-temporal event data sets 433–448
Y. Huang, L. Zhang and P. Zhang
- A study of the neighborhood counting similarity 449–461
H. Wang and F. Murtagh
- Clustering of count data using generalized dirichlet multinomial distributions 462–474
N. Bouguila
- Distributed identification of Top-1 inner product elements and its application in a peer-to-peer network 475–488
K. Das, K. Bhaduri, K. Liu and H. Kargupta
- Mining weighted association rules without preassigned weights 489–495
K. Sun and F. Bai
- Semisupervised clustering with metric learning using relative comparisons 496–503
N. Kumar and K. Kumnamuru
- Adaptive broadcasting for similarity queries in wireless content delivery systems 504–518
W. Wang and C. V. Ravishankar
- Localized co-occurrence model for fast approximate search in 3D structure databases 519–531
Z. Huang, H. T. Shen and X. Zhou
- Watermill: an optimized fingerprinting system for databases under constraints 532–546
J. Lafaye, D. Gross-Amblard, C. Constantin and M. Guerrouani
- Building toward capability specifications of Web services based on an environment ontology 547–561
P. Wang, Z. Jin, L. Liu and G. Cai
- A similarity metric for retrieval of compressed objects: application for mining satellite image time series 562–575
L. Gueguen and M. Datcu

Vol. 20, No. 5**Articles**

Bagging with adaptive costs 577–588

Y. Zhang and W. N. Street

Explaining classifications for individual instances 589–600

M. Robnik-Sikonja and I. Kononenko

Feature extraction and uncorrelated discriminant analysis for high-dimensional data 601–614

W.-H. Yang, D.-Q. Dai and H. Yan

Hierarchical clustering of time-series data streams 615–627

P. P. Rodrigues, J. Gama and J. P. Pedroso

Improving Bayesian Network structure learning with mutual information-based node ordering in the K2 algorithm 628–640

X.-W. Chen, G. Anantha and X. Lin

Text clustering with feature selection by using statistical data 641–652

Y. Li, C. Luo and S. M. Chung

Time-aware Web users' clustering 653–667

S. G. Petridou, V. A. Koutsonikola, A. Vakali and G. I. Papadimitriou

Effective generation of data broadcast schedules with different allocation numbers for multiple wireless channels 668–677

S.-Y. Yi, S. Nam and S. Jung

A scrambling method for fingerprint positioning based on temporal diversity and spatial dependency 678–684

S.-P. Kuo and Y.-C. Tseng

Location fingerprinting in a decorrelated space 685–691

S.-H. Fang, T.-N. Lin and P.-C. Lin

On graph features of Semantic Web schemas 692–702

Y. Theoharis, Y. Tzitzikas, D. Kotzinos and V. Christophides

Analyzing the structure and evolution of massive telecom graphs 703–718

A. A. Nanavati, R. Singh, D. Chakraborty, K. Dasgupta, S. Mukherjee, G. Das, S. Gurumurthy and A. Joshi

Vol. 20, No. 6**Articles**

C-TREND: temporal cluster graphs for identifying and visualizing trends in multiattribute transactional data 721–735

G. Adomavicius and J. Bockstedt

Algorithms for storytelling 736–751

D. Kumar, N. Ramakrishnan, R. F. Helm and M. Potts

An efficient clustering scheme to exploit hierarchical data in network traffic analysis 752–767

A. N. Mahmood, C. Leckie and P. Udaya

Bounded approximation: a new criterion for dimensionality reduction approximation in similarity search 768–783

K. Vu, K. A. Hua, H. Cheng and S.-D. Lang

Hardware-enhanced association rule mining with hashing and pipelining 784–795

Y.-H. Wen, J.-W. Huang and M.-S. Chen

Truth discovery with multiple conflicting information providers on the Web 796–808

X. Yin, J. Han and P. S. Yu

Probabilistic group nearest neighbor queries in uncertain databases 809–824

X. Lian and L. Chen

A signature-based indexing method for efficient content-based retrieval of relative temporal patterns 825–835

E. Winarko and J. F. Roddick

Evolutionary optimization of file assignment for a large-scale video-on-demand system 836–850

J. Guo, Y. Wang, K.-S. Tang, S. Chan,

E. W. M. Wong, P. Taylor and M. Zukerman

Grid service discovery with rough sets 851–862

M. Li, B. Yu, O. F. Rana and Z. Wang

Vol. 20, No. 7

Editorial: TKDE editorial board changes 865–867

X. Wu

Articles

A niching memetic algorithm for simultaneous clustering and feature selection 868–879

W. Sheng, X. Liu and M. C. Fairhurst

Cluster kernels: resource-aware kernel density estimators over streaming data 880–893

C. Heinz and B. Seeger

Ranked reverse nearest neighbor search 894–910

K. C. K. Lee, B. Zheng and W.-C. Lee

Simultaneous pattern and data clustering for pattern cluster analysis 911–923

A. K. C. Wong and G. C. L. Li

Analyzing and managing role-based access control policies 924–939

K. Sohr, M. Drouineaud, G.-J. Ahn and M. Gogolla

Integrating data warehouses with Web data: a survey 940–955

J. M. Pérez, R. B. Llavori, M. J. Aramburu and T. B. Pedersen

Chaotic time series prediction using a neuro-fuzzy system with time-delay coordinates 956–964

J. Zhang, H. S.-H. Chung and W.-L. Lo

Molecular verification of rule-based systems based on DNA computation 965–975

C.-W. Yeh and C.-P. Chu

Meshing streaming updates with persistent data in an active data warehouse 976–991

N. Polyzotis, S. Skiadopoulos, P. Vassiliadis,

A. Simitsis and N.-E. Frantzell

Streaming time series summarization using user-defined amnesic functions 992–1006

T. Palpanas, M. Vlachos, E. J. Keogh and D. Gunopulos

Vol. 20, No. 8

Guest editors' Introduction: special section on intelligence and security informatics 1009–1012

D. D. Zeng, H. Chen, F.-Y. Wang and H. Kargupta

Articles

Protection of database security via collaborative inference detection 1013–1027

Y. Chen and W. W. Chu

Privacy protection against malicious adversaries in distributed information sharing systems 1028–1033

N. Zhang and W. Zhao

Efficient remote data possession checking in critical information infrastructures 1034–1038

F. Sebé, J. Domingo-Ferrer, A. Martínez-Ballesté, Y. Deswarte and J.-J. Quisquater

Discovering and explaining abnormal nodes in semantic graphs 1039–1052

S. Lin and H. Chalupsky

Mining impact-targeted activity patterns in imbalanced data 1053–1066

L. Cao, Y. Zhao and C. Zhang

Detecting word substitutions in text 1067–1076

S. W. Fong, D. Roussinov and D. B. Skillicorn

A statistical language modeling approach to online deception detection 1077–1081

L. Zhou, Y. Shi and D. Zhang

Sensor-based abnormal human-activity detection 1082–1090

J. Yin, Q. Yang and J. J. Pan

Biometric authentication for border control applications 1091–1096

T. Kwon and H. Moon

A thin-plate spline calibration model for fingerprint sensor interoperability 1097–1110

A. Ross and R. Nadgir

Inference of security hazards from event composition based on incomplete or uncertain information 1111–1114

S. Wasserkrug, A. Gal and O. Etzion

- Contraflow transportation network reconfiguration for evacuation route planning 1115–1129
S. Kim, S. Shekhar and M. Min
- On bandwidth-efficient data broadcast 1130–1144
D.-N. Yang and M.-S. Chen
- Ring signature with weak linkability and its applications 1145–1148
I. R. Jeong, J. O. Kwon and D. H. Lee
- Vol. 20, No. 9**
Articles
- A general model for sequential pattern mining with a progressive database 1153–1167
J.-W. Huang, C.-Y. Tseng, J. C. Ou and M.-S. Chen
- Affect analysis of Web forums and blogs using correlation ensembles 1168–1180
A. Abbasi, H. Chen, S. Thoms and T. Fu
- Anonymization by local recoding in data with attribute hierarchical taxonomies 1181–1194
J. Li, R. C.-W. Wong, A. W.-C. Fu and J. Pei
- Automatic website summarization by image content: a case study with logo and trademark images 1195–1204
E. Baratis, E. G. M. Petrakis and E. E. Milios
- Continuous K-means monitoring over moving objects 1205–1216
Z. Zhang, Y. Yang, A. K. H. Tung and D. Papadias
- Efficient phrase-based document similarity for clustering 1217–1229
H. Chim and X. Deng
- IDD: a supervised interval distance-based method for discretization 1230–1238
F. J. Ruiz, C. Angulo and N. Agell
- On combining neuro-fuzzy architectures with the rough set theory to solve classification problems with incomplete data 1239–1253
R. Nowicki
- Recommendation method for improving customer lifetime value 1254–1263
T. Iwata, K. Saito and T. Yamada
- Text document preprocessing with the bayes formula for classification using the support vector machine 1264–1272
D. Isa, L. H. Lee, V. P. Kallimani and R. Rajkumar
- Cooperative media data streaming with scalable video coding 1273–1281
H. Guo and K.-T. Lo
- Gossiptrust for fast reputation aggregation in peer-to-peer networks 1282–1295
R. Zhou, K. Hwang and M. Cai
- Vol. 20, No. 10**
Articles
- Competitor mining with the Web 1297–1310
S. Bao, R. Li, Y. Yu and Y. Cao
- Kernel uncorrelated and regularized discriminant analysis: a theoretical and computational study 1311–1321
S. Ji and J. Ye
- Mixed-drove spatiotemporal co-occurrence pattern mining 1322–1335
M. Celik, S. Shekhar, J. P. Rogers and J. A. Shine
- Rotational linear discriminant analysis technique for dimensionality reduction 1336–1347
A. Sharma and K. K. Paliwal
- The discrete basis problem 1348–1362
P. Miettinen, T. Mielikäinen, A. Gionis, G. Das and H. Mannila
- DiSC: benchmarking secure chip DBMS 1363–1377
N. Anciaux, L. Bouganim, P. Pucheral and P. Valduriez
- Random walks to identify anomalous free-form spatial scan windows 1378–1392
V. P. Janeja and V. Athuri
- Schema matching using interattribute dependencies 1393–1407
J. Kang and J. F. Naughton
- Toward managing uncertain spatial information for situational awareness applications 1408–1423
Y. Ma, D. V. Kalashnikov and S. Mehrotra
- Knowledge reuse enhancement with motion visual representation 1424–1439
J.-L. Hou and A. W.-J. Tsai
- Vol. 20, No. 11**
Articles
- A point symmetry-based clustering technique for automatic evolution of clusters 1441–1457
S. Bandyopadhyay and S. Saha
- On data labeling for clustering categorical data 1458–1472
H.-L. Chen, K.-T. Chuang and M.-S. Chen
- Mining loosely structured motifs from biological data 1472–1489
F. Fassetti, G. Greco and G. Terracina
- Bias and controversy in evaluation systems 1490–1504
H. W. Lauw, E.-P. Lim and K. Wang
- Personalized concept-based clustering of search engine queries 1505–1518
K. W.-T. Leung, W. Ng and D. L. Lee
- Agglomerative fuzzy K-means clustering algorithm with selection of number of clusters 1519–1534
M. J. Li, M. K. Ng, Y.-M. Cheung and J. Z. Huang
- Using context to improve predictive modeling of customers in personalization applications 1535–1549
C. Palmisano, A. Tuzhilin and M. Gorgoglione
- Web people search via connection analysis 1550–1565
D. V. Kalashnikov, Z. Chen, S. Mehrotra and R. Nuray-Turan
- Modeling image data for effective indexing and retrieval in large general image databases 1566–1580
X. Li, L. Shou, G. Chen, T. Hu and J. Dong
- Vol. 20, No. 12**
Editorial: state of the transactions 1585–1586
X. Wu
- Articles**
- Quantitative Inference by qualitative semantic knowledge mining with Bayesian model averaging 1587–1600
R. Chang, M. Stetter and W. Brauer
- Efficient correlation search from graph databases 1601–1615
Y. Ke, J. Cheng and W. Ng
- Novel online methods for time series segmentation 1616–1626
X. Liu, Z. Lin and H. Wang
- Scalable filtering of multiple generalized-tree-pattern queries over XML streams 1627–1640
S. Chen, H.-G. Li, J. Tatemura, W.-P. Hsiung, D. Agrawal and K. S. Candan
- Computation and monitoring of exclusive closest pairs 1641–1654
L. H. U, N. Mamoulis and M. L. Yiu
- Toward the optimal itinerary-based KNN query processing in mobile sensor networks 1655–1668
S.-H. Wu, K.-T. Chuang, C.-M. Chen and M.-S. Chen
- Efficient processing of top-k queries in uncertain databases with x-relations 1669–1682
K. Yi, F. Li, G. Kollios and D. Srivastava
- Deriving protocol models from imperfect service conversation logs 1683–1698
H. R. M. Nezhad, R. Saint-Paul, B. Benatallah and F. Casati
- Nonthreshold-based event detection for 3D environment monitoring in sensor networks 1699–1711
M. Li, Y. Liu and L. Chen
- A virtual ring method for building small-world structured P2P overlays 1712–1725
H. Zhuge and X. Sun