

## From the journals...

### IEEE Transactions on Neural Networks

#### Vol. 19, No. 1

Editorial: A new era for the IEEE transactions on neural networks 1–2

*M. M. Polycarpou*

#### Articles

A dynamically adjusted mixed emphasis method for building boosting ensembles 3–17

*V. Gómez-Verdejo, J. Arenas-García and A. R. Figueiras-Vidal*

MPCA: multilinear principal component analysis of tensor objects 18–39

*H. Lu, K. N. Plataniotis and A. N. Venetsanopoulos*  
Local feature weighting in nearest prototype classification 40–53

*F. Fernández and P. Isasi*

Adaptive fuzzy-neural-network control for Maglev transportation system 54–70

*R.-J. Wai and J.-D. Lee*

Impulsive stabilization of high-order Hopfield-type neural networks with time-varying delays 71–79

*X. Liu and Q. Wang*

Neural network adaptive control for a class of nonlinear uncertain dynamical systems with asymptotic stability guarantees 80–89

*T. Hayakawa, W. M. Haddad and N. Hovakimyan*  
Generalized Hamilton–Jacobi–Bellman Formulation-based neural network control of affine nonlinear discrete-time systems 90–106

*Z. Chen and S. Jagannathan*

A generalized least absolute deviation method for parameter estimation of autoregressive signals 107–118

*Y. Xia and M. S. Kamel*

A new Jacobian matrix for optimal learning of single-layer neural networks 119–129

*J. X. Peng, K. Li and G. W. Irwin*

Multiclass posterior probability support vector machines 130–139

*M. Gönen, A. G. Tanugur and E. Alpaydin*

Convergence of nonautonomous Cohen–Grossberg-type neural networks with variable delays 140–147

*Z. Yuan, L. Huang, D. Hu and B. Liu*

Pruning noisy bases in discriminant analysis 148–157

*M. Zhu and A. M. Martínez*

Multiperiodicity and attractivity of delayed recurrent neural networks with unsaturating piecewise linear transfer functions 158–167

*L. Zhang, Z. Yi and J. Yu*

Unsupervised segmentation with dynamical units 168–182

*A. R. Rao, G. A. Cecchi, C. C. Peck and J. Kozloski*  
An assessment of qualitative performance of machine learning architectures: modular feedback networks 183–189

*M. Chen, T. Gautama and D. P. Mandic*

Recursive support vector machines for dimensionality reduction 189–193

*Q. Tao, D. Chu and J. Wang*

A forward-constrained regression algorithm for sparse kernel density estimation 193–198

*X. Hong, S. Chen and C. J. Harris*

Computational auditory scene analysis: principles, algorithms, and applications 199

*D. Wang and G. Brown*

#### Vol. 19, No. 2

#### Articles

Preliminary study on Wilcoxon learning machines 201–211

*J.-G. Hsieh, Y.-L. Lin and J.-H. Jeng*

A hierarchical graph neuron scheme for real-time pattern recognition 212–229

*B. B. Nasution and A. I. Khan*

Integrating temporal difference methods and self-organizing neural networks for reinforcement learning with delayed evaluative feedback 230–244

*A.-H. Tan, N. Lu and D. Xiao*

Ranked centroid projection: a data visualization approach with self-organizing maps 245–259

*G. G. Yen and Z. Wu*

Maxi-min margin machine: learning large margin classifiers locally and globally 260–272

*K. Huang, H. Yang, I. King and M. R. Lyu*

Constrained least absolute deviation neural networks 273–283

*Z. Wang and B. S. Peterson*

Best approximation of Gaussian neural networks with nodes uniformly spaced 284–298

*J. I. M. Martínez*

Recursive neural network rule extraction for data with mixed attributes 299–307

*R. Setiono, B. Baesens and C. Mues*

A neural network method for detection of obstructive sleep apnea and narcolepsy based on pupil size and EEG 308–318

*D. Liu, Z. Pang and S. R. Lloyd*

Global synchronization criteria of linearly coupled neural network systems with time-varying coupling 319–332

*W. Wu and T. Chen*

Recurrent correlation associative memories: a feature space perspective 333–345

*R. Perfetti and E. Ricci*

Local and global stability analysis of an unsupervised competitive neural network 346–351

*A. Meyer-Bäse and V. Thümmler*

A normalized adaptive training of recurrent neural networks with augmented error gradient 351–356

*W. Yilei, S. Qing and L. Sheng*

Cline: a new decision-tree family 356–363

*M. F. Amasyali and O. Ersoy*

Evolved feature weighting for random subspace classifier 363–366

*L. Nanni and A. Lumini*

Stability analysis of Markovian jumping stochastic Cohen–Grossberg neural networks with mixed time delays 366–370

*H. Zhang and Y. Wang*

Training two-layered feedforward networks with variable projection method 371–375

*C.-T. Kim and J.-J. Lee*

Pattern recognition 376–376

*S. Theodoridis and K. Koutroumbas*

Nearest-neighbor methods in learning and vision 377–377

*G. Shakhnarovich, T. Darrell and P. Indyk*

#### Vol. 19, No. 3

#### Articles

Selecting useful groups of features in a connectionist framework 381–396

*D. Chakraborty and N. R. Pal*

- Global exponential stability of bidirectional associative memory neural networks with time delays 397–407  
*X.-G. Liu, R. R. Martin, M. Wu and M.-L. Tang*
- A class of complex ICA algorithms based on the Kurtosis cost function 408–420  
*H. Li and T. Adali*
- A hybrid technique for blind separation of non-Gaussian and time-correlated sources using a multi-component approach 421–430  
*P. Tichavský, Z. Koldovský, A. Yeredor, G. Gómez-Herrero and E. Doron*
- Performing feature selection with multilayer perceptrons 431–441  
*E. Romero and J. M. Sopena*
- Automatic cluster detection in Kohonen's SOM 442–459  
*D. Brugger, M. Bogdan and W. Rosenstiel*
- Self-organizing radial basis function network for real-time approximation of continuous-time dynamical systems 460–474  
*J. Lian, Y. Lee, S. D. Sudhoff and S. H. Zak*
- Two-microphone separation of speech mixtures 475–492  
*M. S. Pedersen, D. L. Wang, J. Larsen and U. Kjems*
- A fault-tolerant regularizer for RBF networks 493–507  
*C.-S. Leung and J. P. F. Sum*
- An expectation-maximization method for spatio-temporal blind source separation using an AR-MOG source model 508–519  
*K. E. Hild II, H. T. Attias and S. S. Nagarajan*
- Exponential stability of discrete-time genetic regulatory networks with delays 520–523  
*J. Cao and F. Ren*
- Wavelet basis function neural networks for sequential learning 523–528  
*N. Jin and D. Liu*
- An improved algebraic criterion for global exponential stability of recurrent neural networks with time-varying delays 528–531  
*Y. Shen and J. Wang*
- A new criterion of delay-dependent asymptotic stability for hopfield neural networks with time delay 532–535  
*S. Mou, H. Gao, J. Lam and W. Qiang*
- Energy function and energy evolution on neuronal populations 535–538  
*R. Wang, Z. Zhang and G. Chen*
- On a neural approximator to ODEs 539–543  
*C. Filici*
- Book Review**  
Complex-valued Neural Networks. A. Hirose (2006) 544  
*G. M. Georgiou*
- Vol. 19, No. 4**
- Articles**
- Delay-dependent criteria for global robust periodicity of uncertain switched recurrent neural networks with time-varying delay 549–557  
*X. Lou and B. Cui*
- A One-layer recurrent neural network with a discontinuous hard-limiting activation function for quadratic programming 558–570  
*Q. Liu and J. Wang*
- Locality-preserved maximum information projection 571–585  
*H. Wang, S. Chen, Z. Hu and W. Zheng*
- Shared feature extraction for nearest neighbor face recognition 586–595  
*D. Masip and J. Vitrià*
- Complex ICA by negentropy maximization 596–609  
*M. Novey and T. Adali*
- Large-scale maximum margin discriminant analysis using core vector machines 610–624  
*I. W.-H. Tsang, A. Kocsor and J. T.-Y. Kwok*
- DCT-Yager FNN: a novel Yager-based fuzzy neural network with the discrete clustering technique 625–644  
*A. Singh, C. Quek and S.-Y. Cho*
- Real-time reconfigurable subthreshold CMOS perceptron 645–657  
*S. Aunet, B. Oelmann, P. A. Norseng and Y. Berg*
- Relevance-based feature extraction for hyperspectral images 658–672  
*M. J. Mendenhall and E. Merényi*
- Output feedback stabilization for time-delay nonlinear interconnected systems using neural networks 673–688  
*C. Hua and X. Guan*
- PSECMAC: A novel self-organizing multiresolution associative memory architecture 689–712  
*S. D. Teddy, C. Quek and E. M.-K. Lai*
- Adaptive importance sampling to accelerate training of a neural probabilistic language model 713–722  
*Y. Bengio and J.-S. Senecal*
- A note on the bias in SVMs for multiclassification 723–725  
*L. G. Abril, C. Angulo, F. Velasco and J. A. Ortega*
- Further results on delay-dependent stability criteria of neural networks with time-varying delays 726–730  
*T. Li, L. Guo, C. Sun and C. Lin*
- Book Review**  
Adaptive Approximation Based Control: Unifying Neural, Fuzzy and Traditional Adaptive Approximation Approaches. J. A. Farrell and M. M. Polycarpou 731–732  
*E. N. Sanchez and A. Y. Alanis*
- Vol. 19, No. 5**
- Articles**
- Symmetric RBF classifier for nonlinear detection in multiple-antenna-aided systems 737–745  
*S. Chen, A. Wolfgang, C. J. Harris and L. Hanzo*
- Fast-learning adaptive-subspace self-organizing map: an application to saliency-based invariant image feature construction 746–757  
*H. Zheng, G. Lefebvre and C. Laurent*
- Pattern representation in feature extraction and classifier design: matrix versus vector 758–769  
*Z. Wang, S. Chen, J. Liu and D. Zhang*
- The greatest allowed relative error in weights and threshold of strict separating systems 770–781  
*J. Freixas and X. Molinero*
- Equilibria and their bifurcations in a recurrent neural network involving iterates of a transcendental function 782–794  
*B. Gao and W. Zhang*
- A Galerkin/neural-network-based design of guaranteed cost control for nonlinear distributed parameter systems 795–807  
*H.-N. Wu and H.-X. Li*
- Trend time-series modeling and forecasting with neural networks 808–816  
*M. Qi and G. P. Zhang*
- Robust Neural network tracking controller using simultaneous perturbation stochastic approximation 817–835  
*Q. Song, J. C. Spall, Y. C. Soh and J. Ni*
- Multilayer perceptrons: approximation order and necessary number of hidden units 836–844  
*S. Trenn*
- Stability and Hopf bifurcation of a general delayed recurrent neural network 845–854  
*W. Yu, J. Cao and G. Chen*
- Global asymptotic stability of recurrent neural networks with multiple time-varying delays 855–873  
*H. Zhang, Z. Wang and D. Liu*
- Towards the optimal design of numerical experiments 874–882  
*S. Gazut, J.-M. Martinez, G. Dreyfus and Y. Oussar*
- Blur identification by multilayer neural network based on multivalued neurons 883–898  
*I. N. Aizenberg, D. Paliy, J. M. Zurada and J. Astola*
- Minimizing the effect of process mismatch in a neuromorphic system using spike-timing-dependent adaptation 899–913  
*K. Cameron and A. Murray*

- A Bayesian perspective on stochastic neurocontrol 914–924  
*R. Herzallah and D. Lowe*
- Book Review**  
Robot Brains. Circuits and Systems for Conscious Machines. P. Haikonen (2007) 925–926  
*W. Duch*
- Vol. 19, No. 6**  
**Articles**  
Beyond feedforward models trained by back-propagation: a practical training tool for a more efficient universal approximator 929–937  
*R. Ilin, R. Kozma and P. J. Werbos*  
Global convergence and limit cycle behavior of weights of perceptron 938–947  
*C. Y.-F. Ho, B. W.-K. Ling, H.-K. Lam and M. H. U. Nasir*  
Centroid neural network with a divergence measure for GPDF data clustering 948–957  
*D.-C. Park, O.-H. Kwon and J. Chung*  
Implementation of pipelined FastICA on FPGA for real-time blind source separation 958–970  
*K.-K. Shyu, M.-H. Lee, Y.-T. Wu and P.-L. Lee*  
Global convergence of SMO algorithm for support vector regression 971–982  
*N. Takahashi, J. Guo and T. Nishi*  
Optimized approximation algorithm in neural networks without overfitting 983–995  
*Y. Liu, J. A. Starzyk and Z. Zhu*  
A constrained optimization approach to preserving prior knowledge during incremental training 996–1009  
*S. Ferrari and M. Jensentius*  
Adaptive gain control for spike-based map communication in a neuromorphic vision system 1010–1021  
*Y. Meng and B. E. Shi*  
Local convergence analysis of FastICA and related algorithms 1022–1032  
*H. Shen, M. Kleinstueber and K. Hüper*  
Representation of nonlinear random transformations by non-Gaussian stochastic neural networks 1033–1060  
*C. Turchetti, P. Crippa, M. Pirani and G. Biagetti*  
Incremental learning of chunk data for online pattern classification systems 1061–1074  
*S. Ozawa, S. Pang and N. K. Kasabov*  
Absolute exponential stability of recurrent neural networks with generalized activation function 1075–1089  
*J. Xu, Y.-Y. Cao, Y. Sun and J. Tang*  
Nonnegative matrix factorization in polynomial feature space 1090–1100  
*I. Buciu, N. Nikolaidis and I. Pitas*  
Automatic relevance determination for identifying thalamic regions implicated in schizophrenia 1101–1107  
*A. Browne, A. Jakary, S. Vinogradov, Y. Fu and R. Deicken*  
Evaluation of the traffic parameters in a metropolitan area by fusing visual perceptions and CNN processing of webcam images 1108–1129  
*A. Faro, D. Giordano and C. Spampinato*  
An adaptive learning approach for 3-D surface reconstruction from point clouds 1130–1140  
*A. de Medeiros Brito, A. D. Doria Neto, J. D. de Melo and L. M. Garcia Goncalves*  
Corrections to “On adaptive learning rate that guarantees convergence in feedforward networks” [Sep 06 1116–1125] 1141  
*L. Behera, S. Kumar and A. Patnaik*
- Book Review**  
Neurodynamics of Cognition and Consciousness. L. I. Perlovsky and R. Kozma (eds) (2007) 1142  
*P. Érdi*
- Vol. 19, No. 7**  
**Articles**  
Just-in-time adaptive classifiers—Part I: detecting nonstationary changes 1145–1153  
*C. Alippi and M. Roveri*  
Distributed EM algorithm for Gaussian mixtures in sensor networks 1154–1166  
*D. Gu*  
Distributed parallel support vector machines in strongly connected networks 1167–1178  
*Y. Lu, V. Roychowdhury and L. Vandenberghe*  
Fault-tolerant indirect adaptive neurocontrol for a static synchronous series compensator in a power network with missing sensor measurements 1179–1195  
*W. Qiao, R. G. Harley and G. K. Venayagamoorthy*  
On real-time AER 2-D convolutions hardware for neuromorphic spike-based cortical processing 1196–1219  
*R. Serrano-Gotarredona, T. Serrano-Gotarredona, A. Acosta-Jimenez, C. Serrano-Gotarredona, J. A. Perez-Carrasco, B. Linares-Barranco, A. Linares-Barranco, G. Jiménez-Moreno and A. Civit-Ballcells*  
Stability and almost disturbance decoupling analysis of nonlinear system subject to feedback linearization and feedforward neural network controller 1220–1230  
*T.-L. Chien, C.-C. Chen, Y.-C. Huang and W.-J. Lin*  
Dynamic neural-network-based model-predictive control of an industrial baker’s yeast drying process 1231–1242  
*U. Yuzgec, Y. Becerikli and M. Türker*  
Neurodynamic programming and zero-sum games for constrained control systems 1243–1252  
*M. Abu-Khalaf, F. L. Lewis and J. Huang*  
Exchange Monte Carlo sampling from Bayesian posterior for singular learning machines 1253–1266  
*K. Nagata and S. Watanabe*  
A general wrapper approach to selection of class-dependent features 1267–1278  
*L. Wang, N. Zhou and F. Chu*  
A bioinspired neural network for real-time concurrent map building and complete coverage robot navigation in unknown environments 1279–1298  
*C. Luo and S. X. Yang*  
Delay-distribution-dependent exponential stability criteria for discrete-time recurrent neural networks with stochastic delay 1299–1306  
*D. Yue, Y. Zhang, E. Tian and C. Peng*  
Semisupervised learning based on generalized point charge models 1307–1311  
*F. Wang and C. Zhang*
- Vol. 19, No. 8**  
**Articles**  
Dynamics of learning in multilayer perceptrons near singularities 1313–1328  
*F. Cousseau, T. Ozeki and S. Amari*  
Robust state estimation for uncertain neural networks with time-varying delay 1329–1339  
*H. Huang, G. Feng and J. Cao*  
A novel recurrent neural network for solving nonlinear optimization problems with inequality constraints 1340–1353  
*Y. Xia, G. Feng and J. Wang*  
Individual stable space: an approach to face recognition under uncontrolled conditions 1354–1368  
*X. Geng, Z.-H. Zhou and K. Smith-Miles*  
Reinforcement-learning-based dual-control methodology for complex nonlinear discrete-time systems with application to spark engine EGR operation 1369–1388  
*P. Shih, B. C. Kaul, S. Jagannathan and J. A. Drallmeier*  
A new approach to knowledge-based design of recurrent neural networks 1389–1401  
*E. Kolman and M. Margaliot*  
A neural model for compensation of sensory abnormalities in autism through feedback from a measure of global perception 1402–1414  
*G. Noriega*

- The Q-norm complexity measure and the minimum gradient method: a novel approach to the machine learning structural risk minimization problem 1415–1430  
*D. A. G. Vieira, R. H. C. Takahashi, V. Palade, J. A. Vasconcelos and W. M. Caminhas*
- Configuration of continuous piecewise-linear neural networks 1431–1445  
*S. Wang, X. Huang and K. M. Khan Junaid*
- Training hard-margin support vector machines using greedy stagewise algorithm 1446–1455  
*L. Bo, L. Wang and L. Jiao*
- Deterministic learning for maximum-likelihood estimation through neural networks 1456–1467  
*C. Cervellera, D. Maccio and M. Muselli*
- Visualization of tree-structured data through generative topographic mapping 1468–1493  
*N. Gianniotis and P. Tiño*
- Comments on “The extreme learning machine” 1494–1495  
*L. P. Wang and C. R. Wan*
- Reply to ‘Comments on “The extreme learning machine”’ 1495–1496  
*G.-B. Huang*
- Comments on “Adaptive neural control for a class of nonlinearly parametric time-delay systems” 1496–1498  
*S. J. Yoo, J. B. Park and Y. H. Choi*
- Reply to ‘Comments on “Adaptive neural control for a class of nonlinearly parametric time-delay systems”’ 1498  
*D. W. C. Ho, J. Li and Y. Niu*
- Book Review**
- Complexity Explained. P. Erdi (2008) 1499  
*W. Klonowski*
- Vol. 19, No. 9**
- Articles**
- Data visualization and dimensionality reduction using kernel maps with a reference point 1501–1517  
*J. A. K. Suykens*
- Decision manifolds—a supervised learning algorithm based on self-organization 1518–1530  
*G. Pözlbauer, T. Lidy and A. Rauber*
- Hybrid multiobjective evolutionary design for artificial neural networks 1531–1548  
*C. K. Goh, E. J. Teoh and K. C. Tan*
- A neural-network-based model for the dynamic simulation of the tire/suspension system while traversing road irregularities 1549–1563  
*P. Guarneri, G. Rocca and M. Gobbi*
- Analysis of the initial values in split-complex backpropagation algorithm 1564–1573  
*S.-S. Yang, S. Siu and C.-L. Ho*
- An instance-based algorithm with auxiliary similarity information for the estimation of gait kinematics from wearable sensors 1574–1582  
*J. Y. Goulermas, A. H. Findlow, C. J. Nester, P. Liatsis, X.-J. Zeng, L. Kenney, P. A. Tresadern, S. B. Thies and D. Howard*
- Kernel component analysis using an epsilon-insensitive robust loss function 1583–1598  
*C. Alzate and J. A. K. Suykens*
- Adaptive predictive control using neural network for a class of pure-feedback systems in discrete time 1599–1614  
*S. S. Ge, C. Yang and T. H. Lee*
- Feedback-linearization-based neural adaptive control for unknown nonaffine nonlinear discrete-time systems 1615–1625  
*H. Deng, H.-X. Li and Y.-H. Wu*
- Training spiking neuronal networks with applications in engineering tasks 1626–1640  
*P. Rowcliffe and J. Feng*
- A hybrid ART-GRNN online learning neural network with a varepsilon-insensitive loss function 1641–1646  
*K. S. Yap, C. P. Lim and I. Z. Abidi*
- Delay-dependent stability for recurrent neural networks with time-varying delays 1647–1651  
*H. Shao*
- A fast and scalable recurrent neural network based on stochastic meta descent 1652–1658  
*Z. Liu and I. Elhanany*
- Symmetric complex-valued RBF receiver for multiple-antenna-aided wireless systems 1659–1665  
*S. Chen, L. Hanzo and S. Tan*
- Vol. 19, No. 10**
- Articles**
- A nonfeasible gradient projection recurrent neural network for equality-constrained optimization problems 1665–1677  
*M. P. Barbarosou and N. G. Maratos*
- Extrapolative delay compensation through facilitating synapses and its relation to the flash-lag effect 1678–1688  
*H. Lim and Y. Choe*
- Adaptive-Fourier-neural-network-based control for a class of uncertain nonlinear systems 1689–1701  
*W. Zuo and L. Cai*
- Adaptive dynamic inversion via time-scale separation 1702–1711  
*N. Hovakimyan, E. Lavretsky and C. Cao*
- Adaptive output feedback control of flexible-joint robots using neural networks: dynamic surface design approach 1712–1726  
*S. J. Yoo, J. B. Park and Y. H. Choi*
- IMORL: incremental multiple-object recognition and localization 1727–1738  
*H. He and S. Chen*
- The correspondence between deterministic and stochastic digital neurons: analysis and methodology 1739–1752  
*L. Geretti and A. Abramo*
- A new solution path algorithm in support vector regression 1753–1767  
*G. Wang, D.-Y. Yeung and F. H. Lochofsky*
- Generalized linear discriminant analysis: a unified framework and efficient model selection 1768–1782  
*S. Ji and J. Ye*
- New delay-dependent stability results for neural networks with time-varying delay 1783–1791  
*X.-L. Zhu, G.-H. Yang*
- Pruning support vector machines without altering performances 1792–1803  
*X. Liang, R.-C. Chen and X. Guo*
- Quasi-Lagrangian neural network for convex quadratic optimization 1804–1809  
*G. Costantini, R. Perfetti and M. Todisco*
- Global mu-synchronization of linearly coupled unbounded time-varying delayed neural networks with unbounded delayed coupling 1809–1816  
*T. Chen, W. Wu and W. Zhou*
- Boltzmann machines reduction by high-order decimation 1816–1821  
*E. Farguell, F. Mazzanti and E. Gómez-Ramírez*
- Matrix-variate factor analysis and its applications 1821–1826  
*X. Xie, S. Yan, J. T. Kwok and T. S. Huang*
- Nonlinear knowledge-based classification 1826–1832  
*O. L. Mangasarian and E. W. Wild*
- Local classifier weighting by quadratic programming 1832–1838  
*H. Cevikalp and R. Polikar*
- Book Review**
- Nonlinear Dynamic Modeling of Physiological Systems. Marmarellis (2004, V. Z.) 1839–1840  
*F. Gianfelici*
- Vol. 19, No. 11**
- Articles**
- Robust adaptive gradient-descent training algorithm for recurrent neural networks in discrete time domain 1841–1853  
*Q. Song, Y.-L. Wu and Y. C. Soh*
- Combining DC algorithms (DCAs) and decomposition techniques for the training of nonpositive-semidefinite kernels 1854–1872  
*F. B. Akoa*

Output feedback NN control for two classes of discrete-time systems with unknown control directions in a unified approach 1873–1886

*C. Yang, S. S. Ge, C. Xiang, T. Chai and T. H. Lee*  
Space-time adaptive decision feedback neural receivers with data selection for high-data-rate users in DS-CDMA systems 1887–1895

*R. C. de Lamare and R. S. Neto*  
A modified backpropagation learning algorithm with added emotional coefficients 1896–1909  
*A. Khashman*

Robust Synchronization of an array of coupled stochastic discrete-time delayed neural networks 1910–1921

*J. Liang, Z. Wang, Y. Liu and X. Liu*  
Competitive repetition suppression (CoRe) clustering: a biologically inspired learning model with application to robust clustering 1922–1941

*D. Bacciu and A. Starita*  
Robust stability analysis for interval Cohen–Grossberg neural networks with unknown time-varying delays 1942–1955

*H. Zhang, Z. Wang and D. Liu*  
Fast ML estimation for the mixture of factor analyzers via an ECM algorithm 1956–1961

*J.-H. Zhao and P. L. H. Yu*  
A-optimality orthogonal forward regression algorithm using branch and bound 1961–1967

*X. Hong, S. Chen and C. J. Harris*  
Consensus in networks of multiagents with cooperation and competition via stochastically switching topologies 1967–1973

*B. Liu and T. Chen*  
Indoor location system based on discriminant-adaptive neural network in IEEE 802.11 environments 1973–1978

*S.-H. Fang and T.-N. Lin*  
Continuously differentiable sample-spacing entropy estimation 1978–1984

*U. Ozertem, I. Uysal and D. Erdogmus*  
Simple method for high-performance digit recognition based on sparse coding 1985–1989

*K. Labusch, E. Barth and T. Martinetz*

#### Book Reviews

Learning Kernel Classifiers: Theory and Algorithms. R. Herbrich (2002) 1990

*C. Angulo*  
Numerical Solutions of Stochastic Differential Equations. P. K. Kloeden and E. Platen (2008) 1991  
*F. Gianfelici*

#### Vol. 19, No. 12

##### Articles

Stochastic resonance in continuous and spiking neuron models with levy noise 1993–2008

*A. Patel and B. Kosko*

Equivalence probability and sparsity of two sparse solutions in sparse representation 2009–2021

*Y. Li, A. Cichocki, S.-I. Amari, S. Xie and C. Guan*  
An improved dual neural network for solving a class of quadratic programming problems and its k-winners-take-all application 2022–2031

*X. Hu and J. Wang*

Multilayer potts perceptrons with levenberg-marquardt learning 2032–2043

*J.-M. Wu*

Nesting one-against-one algorithm based on SVMs for pattern classification 2044–2052

*B. Liu, Z. Hao and E. C. C. Tsang*

Just-in-time adaptive classifiers—part II: designing the classifier 2053–2064

*C. Alippi and M. Roveri*

Topology preservation and cooperative learning in identification of multiple model systems 2065–2072

*J. Liu and D. Djurdjanovic*

Neural-network-based state feedback control of a nonlinear discrete-time system in nonstrict feedback form 2073–2087

*S. Jagannathan and P. He*

Color image discriminant models and algorithms for face recognition 2088–2098

*J. Yang and C. Liu*

A constructive hybrid structure optimization methodology for radial basis probabilistic neural networks 2099–2115

*D.-S. Huang and J.-X. Du*

A kernel-induced space selection approach to model selection in KLDA 2116–2131

*L. Wang, K. L. Chan, P. Xue and L. Zhou*

Efficient object recognition using boundary representation and wavelet neural network 2132–2149

*H. Pan and L.-Z. Xia*

Radial basis function networks GPU-based implementation 2150–2154

*A. Brandstetter and A. Artusi*

Improved delay-dependent asymptotic stability criteria for delayed neural networks 2154–2161

*W.-H. Chen and W. X. Zheng*

## IEEE Transactions on Pattern Analysis and Machine Intelligence

#### Vol. 30, No. 1

##### Articles

Globally consistent reconstruction of ripped-up documents 1–13

*L. Zhu, Z. Zhou and D. Hu*

Script and language identification in noisy and degraded document images 14–24

*S. Lu and C. L. Tan*

Mixture of spherical distributions for single-view relighting 25–35

*K. Hara, K. Nishino and K. Ikeuchi*

Groups of adjacent contour segments for object detection 36–51

*V. Ferrari, L. Fevrier, F. Jurie and C. Schmid*

Locally rotation, contrast, and scale invariant descriptors for texture analysis 52–61

*M. Mellor, B.-W. Hong and M. Brady*

LEGClust—a clustering algorithm based on layered entropic subgraphs 62–75

*J. M. Santos, J. M. de Sá and L. A. Alexandre*

A redundancy-based measure of dissimilarity among probability distributions for hierarchical clustering criteria 76–88

*K. Iwata and A. Hayashi*

BoostMap: an embedding method for efficient nearest neighbor retrieval 89–104

*V. Athitsos, J. Alon, S. Sclaroff and G. Kollias*

A marked point process of rectangles and segments for automatic analysis of digital elevation models 105–119

*M. Ortner, X. Descombes and J. Zerubia*

Maximum-likelihood registration of range images with missing data 120–130

*G. C. Sharp, S. W. Lee and D. K. Wehe*

Free-form object reconstruction from silhouettes, occluding edges and texture edges: a unified and robust operator based on duality 131–146

*S. Liu, K. Kang, J.-P. Tarel and D. B. Cooper*

Multiflash stereopsis: depth-edge-preserving stereo with small baseline illumination 147–159

*R. Feris, R. Raskar, L. Chen, K.-H. Tan and*

*M. Turk*

Cumulative voting consensus method for partitions with variable number of clusters 160–173

*H. Ayad and M. S. Kamel*

Graph-based semisupervised learning 174–179

*M. Culp and G. Michailidis*

- Mutual information for lucas-kanade tracking (MILK): an inverse compositional formulation 180–185  
*N. Dowson and R. Bowden*
- Vol. 30, No. 2**  
 Editorial—state of the transactions 193–194  
*D. J. Kriegman, D. J. Fleet and Z. Ghahramani*  
 Introduction of new editors 195–196  
*D. J. Kriegman and D. J. Fleet*
- Articles**  
 A theory of frequency domain invariants: spherical harmonic identities for BRDF/lighting transfer and image consistency 197–213  
*D. Mahajan, R. Ramamoorthi and B. Curless*  
 Three-view multibody structure from motion 214–227  
*R. Vidal and R. Hartley*  
 A closed-form solution to natural image matting 228–242  
*A. Levin, D. Lischinski and Y. Weiss*  
 K-Nearest neighbor finding using MaxNearestDist 243–252  
*H. Samet*  
 Weighted pseudometric discriminatory power improvement using a Bayesian logistic regression model based on a variational method 253–266  
*R. Ksantini, D. Ziou, B. Colin and F. Dubeau*  
 Multicamera people tracking with a probabilistic occupancy map 267–282  
*F. Fleuret, J. Berclaz, R. Lengagne and P. Fua*  
 Gaussian process dynamical models for human motion 283–298  
*J. M. Wang, D. J. Fleet and A. Hertzmann*  
 Automatic estimation and removal of noise from a single image 299–314  
*C. Liu, R. Szeliski, S. B. Kang, C. L. Zitnick and W. T. Freeman*  
 Plane-based optimization for 3D object reconstruction from single line drawings 315–327  
*J. Liu, L. Cao, Z. Li and X. Tang*  
 Stereo processing by semiglobal matching and mutual information 328–341  
*H. Hirschmüller*  
 Likelihood ratio-based biometric score fusion 342–347  
*K. Nandakumar, Y. Chen, S. C. Dass and A. K. Jain*  
 MultiK-MHKS: a novel multiple kernel learning algorithm 348–353  
*Z. Wang, S. Chen and T. Sun*  
 Bayesian-competitive consistent labeling for people surveillance 354–360  
*S. E. Calderara, R. Cucchiara and A. Prati*  
 Trajectory association across multiple airborne cameras 361–367  
*Y. Sheikh and M. Shah*  
 Correction to “automatic age estimation based on facial aging patterns” 368  
*X. Geng, Z.-H. Zhou and K. Smith-Miles*
- Vol. 30, No. 3**  
**Articles**  
 Fast asymmetric learning for cascade face detection 369–382  
*J. Wu, S. C. Brubaker, M. D. Mullin and J. M. Rehg*  
 Eigenfeature regularization and extraction in face recognition 383–394  
*X. Jiang, B. Mandal and A. C. Kot*  
 Globally optimal grouping for symmetric closed boundaries by combining boundary and region information 395–411  
*J. S. Stahl and S. Wang*  
 Finsler active contours 412–423  
*J. Melonakos, E. Pichon, S. Angenent and A. Tannenbaum*  
 Semisupervised learning for a hybrid generative/discriminative classifier based on the maximum entropy principle 424–437  
*A. Fujino, N. Ueda and K. Saito*  
 Alignment of overlapping locally scaled patches for multi-dimensional scaling and dimensionality reduction 438–450  
*L. Yang*  
 Distance learning for similarity estimation 451–462  
*J. Yu, J. Amores, N. Sebe, P. Radeva and Q. Tian*  
 Shape-and-behavior encoded tracking of bee dances 463–476  
*A. Veeraraghavan, R. Chellappa and M. Srinivasan*  
 Detecting objects of variable shape structure with hidden state shape models 477–492  
*J. Wang, V. Athitsos, S. Sclaroff and M. Betke*  
 Constraint integration for efficient multiview pose estimation with self-occlusions 493–506  
*A. Gupta, A. Mittal and L. S. Davis*  
 What the back of the object looks like: 3D reconstruction from line drawings without hidden lines 507–517  
*L. Cao, J. Liu and X. Tang*  
 Shape from defocus via diffusion 518–531  
*P. Favaro, S. Soatto, M. Burger and S. Osher*  
 Blind camera fingerprinting and image clustering 532–534  
*G. J. Bloy*  
 Dimensionality reduction of clustered data sets 535–540  
*G. Sanguinetti*  
 Evaluation of gender classification methods with automatically detected and aligned faces 541–547  
*E. Mäkinen and R. Raisamo*  
 Multiview photometric stereo 548–554  
*C. H. Esteban, G. Vogiatzis and R. Cipolla*  
 Robust real-time unusual event detection using multiple fixed-location monitors 555–560  
*A. Adam, E. Rivlin, I. Shimshoni and D. Reinitz*
- Vol. 30, No. 4**  
 Introduction of new associate editors 561  
*D. J. Kriegman, D. J. Fleet and Z. Ghahramani*
- Articles**  
 Robust radiometric calibration and vignetting correction 562–576  
*S. J. Kim and M. Pollefeys*  
 Border and surfacetraging—theoretical foundations 577–590  
*V. E. Brimkov and R. Klette*  
 Geometric rectification of camera-captured document images 591–605  
*J. Liang, D. DeMenthon and D. S. Doermann*  
 Maximum confidence hidden Markov modeling for face recognition 606–616  
*J.-T. Chien and C.-P. Liao*  
 Image stitching using structure deformation 617–631  
*J. Jia and C.-K. Tang*  
 MAC: magnetostatic active contour model 632–646  
*X. Xie and M. Mirmehdi*  
 Bayes optimality in linear discriminant analysis 647–657  
*O. C. Hamsici and A. M. Martínez*  
 Between classification-error approximation and weighted least-squares learning 658–669  
*K.-A. Toh and H.-L. Eng*  
 Dependent multiple cue integration for robust tracking 670–685  
*F. Moreno-Noguer, A. Sanfeliu and D. Samaras*  
 Hole filling of a 3D model by flipping signs of a signed distance field in adaptive resolution 686–699  
*R. Sagawa and K. Ikeuchi*  
 Unsupervised learning of discriminative edge measures for vehicle matching between nonoverlapping cameras 700–711  
*Y. Shan, H. S. Sawhney and R. Kumar*  
 Scene classification using a hybrid generative/discriminative approach 712–727  
*A. Bosch, A. Zisserman and X. Muñoz*  
 An improved physically-based method for geometric restoration of distorted document images 728–734  
*L. Zhang, Y. Zhang and C. Tan*  
 Error-dependency relationships for the naïve Bayes classifier with binary features 735–740  
*L. Kuncheva and Z. Hoare*

- A rich discrete labeling scheme for line drawings of curved objects 741–745  
*M. C. Cooper*
- Robust foreground detection in video using pixel layers 746–751  
*K. A. Patwardhan, G. Sapiro and V. Morellas*
- Vol. 30, No. 5**  
**Articles**  
 A comparative study of staff removal algorithms 753–766  
*C. Dalitz, M. Droettboom, B. Pranzas and I. Fujinaga*
- Markov random field-based statistical character structure modeling for handwritten Chinese character recognition 767–780  
*J. Zeng and Z.-Q. Liu*
- Superquadric segmentation in range images via fusion of region and boundary information 781–795  
*D. Katsoulas, C. C. Bastidas and D. I. Kosmopoulos*
- Riemannian manifold learning 796–809  
*T. Lin and H. Zha*
- Efficient multiclass ROC approximation by decomposition via confusion matrix perturbation analysis 810–822  
*T. Landgrebe and R. P. W. Duin*
- Theoretical foundations of spatially-variant mathematical morphology part I: binary images 823–836  
*N. Bouaynaya, M. Charif-Chefchaoui and D. Schonfeld*
- Theoretical foundations of spatially-variant mathematical morphology part II: gray-level images 837–850  
*N. Bouaynaya and D. Schonfeld*
- Coarse-to-fine segmentation and tracking using Sobolev active contours 851–864  
*G. Sundaramoorthi, A. J. Yezzi and A. Mennucci*
- A factorization-based approach for articulated nonrigid shape, motion and kinematic chain recovery from video 865–877  
*J. Yan and M. Pollefeys*
- Nonrigid structure-from-motion: estimating shape and motion with hierarchical priors 878–892  
*L. Torresani, A. Hertzmann and C. Bregler*
- Video behavior profiling for anomaly detection 893–908  
*T. Xiang and S. Gong*
- Modeling, clustering, and segmenting video with mixtures of dynamic textures 909–926  
*A. B. Chan and N. Vasconcelos*
- Correction to “MAC: magnetostatic active contour model”  
*X. Xie and M. Mirmehdi*
- Vol. 30, No. 6**  
**Articles**  
 Singular points detection based on zero-pole model in fingerprint images 929–940  
*L. Fan, S. Wang, H. Wang and T. Guo*
- Performance evaluation and benchmarking of six-page segmentation algorithms 941–954  
*F. Shafait, D. Keysers and T. M. Breuel*
- A hierarchical compositional model for face representation and sketching 955–969  
*Z. Xu, H. Chen, S. C. Zhu and J. Luo*
- Tied factor analysis for face recognition across large pose differences 970–984  
*S. J. D. Prince, J. H. Elder, J. Warrell and F. M. Felisberti*
- Real-time computerized annotation of pictures 985–1002  
*J. Li and J. Z. Wang*
- Geometry-based image retrieval in binary image databases 1003–1013  
*N. Alajlan, M. S. Kamel and G. H. Freeman*
- Edge-preserving filtering of images with low photon counts 1014–1027  
*J. A. Lee, X. Geets, V. Grégoire and A. Bol*
- Multilayered 3D LiDAR image construction using spatial models in a Bayesian framework 1028–1040  
*S. Hernandez-Marin, A. M. Wallace and G. J. Gibson*
- Subclass problem-dependent design for error-correcting output codes 1041–1054  
*S. Escalera, D. M. J. Tax, O. Pujol, P. Radeva and R. P. W. Duin*
- Triplet Markov fields for the classification of complex structure data 1055–1067  
*J. Blanchet and F. Forbes*
- A comparative study of energy minimization methods for Markov random fields with smoothness-based priors 1068–1080  
*R. Szeliski, R. Zabih, D. Scharstein, O. Veksler, V. Kolmogorov, A. Agarwala, M. F. Tappen and C. Rother*
- Optical flow and advection on 2-Riemannian manifolds: a common framework 1081–1092  
*J. Lefevre and S. Baillet*
- Geometric observers for dynamically evolving curves 1093–1108  
*M. Niethammer, P. A. Vela and A. Tannenbaum*
- Glove-based approach to online signature verification 1109–1113  
*N. S. Kamel, S. Sayeed and G. A. Ellis*
- On distributional assumptions and whitened cosine similarities 1114–1115  
*M. Loog*
- Clarification of assumptions in the relationship between the Bayes decision rule and the whitened cosine similarity measure 1116–1117  
*C. Liu*
- Correction to “Gaussian process dynamical models for human motion” 1118  
*J. M. Wang, D. J. Fleet and A. Hertzmann*
- Vol. 30, No. 7**  
**Articles**  
 Bayes classification of online Arabic characters by Gibbs modeling of class conditional densities 1121–1131  
*N. Mezghani, A. Mitiche and M. Cheriet*
- Constrained connectivity for hierarchical image decomposition and simplification 1132–1145  
*P. Soille*
- TRUST-TECH-based expectation maximization for learning finite mixture models 1146–1157  
*C. K. Reddy, H.-D. Chiang and B. Rajaratnam*
- A fast algorithm for learning a ranking function from large-scale data sets 1158–1170  
*V. C. Raykar, R. Duraiswami and B. Krishnapuram*
- Motion segmentation and depth ordering using an occlusion detector 1171–1185  
*D. Feldman and D. Weinshall*
- Sequential kernel density approximation and its application to real-time visual tracking 1186–1197  
*B. Han, D. Comaniciu, Y. Zhu and L. S. Davis*
- Segmentation and tracking of multiple humans in crowded environments 1198–1211  
*T. Zhao, R. Nevatia and B. Wu*
- Tracking the visual focus of attention for a varying number of wandering people 1212–1229  
*K. Smith, S. O. Ba, J.-M. Odobez and D. Gatica-Perez*
- Balanced exploration and exploitation model search for efficient epipolar geometry estimation 1230–1242  
*L. Goshen and I. Shimshoni*
- Universal and adapted vocabularies for generic visual categorization 1243–1256  
*F. Perronnin*
- Discriminative feature co-occurrence selection for object detection 1257–1269  
*T. Mita, T. Kaneko, B. Stenger and O. Hori*
- Multiscale categorical object recognition using contour fragments 1270–1281  
*J. Shotton, A. Blake and R. Cipolla*

- Path similarity skeleton graph matching 1282–1292  
*X. Bai and L. J. Latecki*
- A theoretical analysis of bagging as a linear combination of classifiers 1293–1299  
*G. Fumera, F. Roli and A. Serrau*
- Inverse compositional estimation of 3D pose and lighting in dynamic scenes 1300–1307  
*Y. Xu and A. K. R. Chowdhury*
- Depth map calculation for a variable number of moving objects using Markov sequential object processes 1308–1312  
*M. N. M. van Lieshout*
- Vol. 30, No. 8**
- Articles**
- Script-independent text line segmentation in freestyle handwritten documents 1313–1329  
*Y. Li, Y. Zheng, D. S. Doermann and S. Jaeger*
- Analysis of head gesture and prosody patterns for prosody-driven head-gesture animation 1330–1345  
*M. E. Sargin, Y. Yemez, E. Erzin and A. M. Tekalp*
- Deformation modeling for robust 3D face matching 1346–1357  
*X. Lu and A. K. Jain*
- Learning local objective functions for robust face model fitting 1357–1370  
*M. Wimmer, F. Stulp, S. Pietzsch and B. Radig*
- A discriminative kernel-based approach to rank images from text queries 1371–1384  
*D. Grangier and S. Bengio*
- A framework for image segmentation using shape models and kernel space shape priors 1385–1399  
*S. Dambreville, Y. Rathin and A. Tannenbaum*
- A variational framework for multiregion pairwise-similarity-based image segmentation 1400–1414  
*L. Bertelli, B. Sumengen, B. S. Manjunath and F. Gibou*
- Learning flexible features for conditional random fields 1415–1426  
*L. Stewart, X. He and R. S. Zemel*
- Robust real-time pattern matching using Bayesian sequential hypothesis testing 1427–1443  
*O. Pele and M. Werman*
- Metamorphs: deformable shape and appearance models 1444–1459  
*X. Huang and D. N. Metaxas*
- Subpixel photometric stereo 1460–1471  
*P. Tan, S. Lin and L. Quan*
- Optimal randomized RANSAC 1472–1482  
*O. Chum and J. Matas*
- Random field model for integration of local information and global information 1483–1489  
*T. Toyoda and O. Hasegawa*
- Twin kernel embedding 1490–1495  
*Y. Guo, J. Gao and P. W. Kwan*
- Simplifying mixture models using the unscented transform 1496–1502  
*J. Goldberger, H. Greenspan and J. Dreyfuss*
- Comments on “globally maximizing, locally minimizing: unsupervised discriminant projection with application to face and palm biometrics” 1503–1504  
*W. Deng, J. Hu, J. Guo, H. Zhang and C. Zhang*
- Vol. 30, No. 9**
- Introduction of new associate editors 1505–1506  
*D. J. Kriegman, D. J. Fleet and Z. Ghahramani*
- Articles**
- Global models for the orientation field of fingerprints: an approach based on quadratic differentials 1507–1519  
*S. Huckemann, T. Hotz and A. Munk*
- Design of multimodal dissimilarity spaces for retrieval of video documents 1520–1533  
*E. Bruno, N. Moëne-Loccoz and S. Marchand-Maillet*
- Feature selection with kernel class separability 1534–1546  
*L. Wang*
- Out-of-sample extrapolation of learned manifolds 1547–1556  
*T.-J. Chin and D. Suter*
- Query by transduction 1557–1571  
*S.-S. Ho and H. Wechsler*
- Bitracker—a bitmap tracker for visual tracking under very general conditions 1572–1588  
*I. Leichter, M. Lindenbaum and E. Rivlin*
- Inferring segmented dense motion layers using 5D tensor voting 1589–1602  
*C. Min and G. G. Medioni*
- Multiple-view geometry under the Linfinity-norm 1603–1617  
*F. Kahl and R. I. Hartley*
- Class-based feature matching across unrestricted transformations 1618–1631  
*E. Bart and S. Ullman*
- Randomized clustering forests for image classification 1632–1646  
*F. Moosmann, E. Nowak and F. Jurie*
- Effective proximity retrieval by ordering permutations 1647–1658  
*E. Chávez, K. Figueroa and G. Navarro*
- Measuring spatiotemporal dependencies in bivariate temporal random sets with applications to cell biology 1659–1671  
*E. Díaz, R. Sebastian, G. Ayala, M. E. Díaz, R. Zoncu, D. Toomre and S. Gasman*
- Principal component analysis based on L1-norm maximization 1672–1680  
*N. Kwak*
- Vol. 30, No. 10**
- Guest editors’ introduction to the special section on CVPR Papers 1681–1682  
*S. Baker, J. Matas and R. Zabih*
- Articles**
- Coupled object detection and tracking from static cameras and moving vehicles 1683–1698  
*B. Leibe, K. Schindler, N. Cornelis and L. J. Van Gool*
- Spectral matting 1699–1712  
*A. Levin, A. Rav-Acha and D. Lischinski*
- Pedestrian detection via classification on Riemannian manifolds 1713–1727  
*O. Tuzel, F. Porikli and P. Meer*
- Tracking in low frame rate video: a cascade particle filter with discriminative observers of different life spans 1728–1740  
*Y. Li, H. Ai, T. Yamashita, S. Lao and M. Kawade*
- An effective approach for iris recognition using phase-based image matching 1741–1756  
*K. Miyazawa, K. Ito, T. Aoki, K. Kobayashi and H. Nakajima*
- A spatially variant white-patch and gray-world method for color image enhancement driven by local contrast 1757–1770  
*E. Provenzi, C. Gatta, M. Fierro and A. Rizzi*
- Model driven segmentation of articulating humans in Laplacian eigenspace 1771–1785  
*A. Sundaresan and R. Chellappa*
- In situ image segmentation using the convexity of illumination distribution of the light sources 1786–1799  
*L. Zhang*
- Concurrent computation of attribute filters on shared memory parallel machines 1800–1813  
*M. H. F. Wilkinson, H. Gao, W. H. Hesselink, J.-E. Jonker and A. Meijster*
- Layered data association using graph-theoretic formulation with application to tennis ball tracking in monocular sequences 1814–1830  
*F. Yan, W. J. Christmas and J. Kittler*
- Robust and accurate visual echo cancelation in a full-duplex projector-camera system 1831–1840  
*M. Liao, R. Yang and Z. Zhang*

- Estimating the joint statistics of images using non-parametric windows with application to registration using mutual information 1841–1857  
*N. Dowson, T. Kadir and R. Bowden*
- Parametric image alignment using enhanced correlation coefficient maximization 1858–1865  
*G. D. Evangelidis and E. Z. Psarakis*
- Graph cuts via  $l_1$  norm minimization 1866–1871  
*A. Bhusurmath and C. J. Taylor*
- Erratum to “adaptive smoothing via contextual and local discontinuities” 1872  
*K. Chen*
- Vol. 30, No. 11**
- Articles**
- Real-world image annotation and retrieval: an introduction to the special section 1873–1876  
*J. Z. Wang, D. Geman, J. Luo and R. M. Gray*
- VisualRank: applying Pagerank to large-scale image search 1877–1890  
*Y. Jing and S. Baluja*
- Homotopic image pseudo-invariants for openset object recognition and image retrieval 1891–1901  
*Y. Shinagawa*
- Localized content-based image retrieval 1902–1912  
*R. Rahmani, S. A. Goldman, H. Zhang, S. R. Chollet and J. E. Fritts*
- Document image retrieval through word shape coding 1913–1918  
*S. Lu, L. Li and C. L. Tan*
- Annotating images by mining image search results 1919–1932  
*X.-J. Wang, L. Zhang, X. Li and W.-Y. Ma*
- Automatic semantic annotation of real-world Web images 1933–1944  
*R. C. F. Wong and C. H. C. Leung*
- Handwritten-word spotting using biologically inspired features 1945–1957  
*T. van der Zant, L. Schomaker and K. Haak*
- 80 million tiny images: a large data set for nonparametric object and scene recognition 1958–1970  
*A. B. Torralba, R. Fergus and W. T. Freeman*
- Nonchronological video synopsis and indexing 1971–1984  
*Y. Pritch, A. Rav-Acha and S. Peleg*
- Video event recognition using kernel methods with multilevel temporal alignment 1985–1997  
*D. Xu and S.-F. Chang*
- Efficient annotation of vesicle dynamics video microscopy 1998–2010  
*L. Cortes and Y. Amit*
- Simultaneous nonrigid registration of multiple point sets and atlas construction 2011–2022  
*F. Wang, B. C. Vemuri, A. Rangarajan and S. J. Eisenschenk*
- Evaluating shape correspondence for statistical shape analysis: a benchmark study 2023–2039  
*B. C. Munsell, P. Dalal and S. Wang*
- Sign language recognition by combining statistical DTW and independent classification 2040–2046  
*J. Lichtenauer, E. A. Hendriks and M. J. T. Reinders*
- Graph rigidity, cyclic belief propagation, and point pattern matching 2047–2054  
*J. J. McAuley, T. S. Caetano and M. S. Barbosa*
- Learning to detect moving shadows in dynamic environments 2055–2063  
*A. J. Joshi and N. Papanikolopoulos*
- Vol. 30, No. 12**
- Introduction of new associate editors 2065–2066  
*D. J. Kriegman, D. J. Fleet and Z. Ghahramani*
- Articles**
- Emotion recognition based on physiological changes in music listening 2067–2083  
*J. Kim and E. André*
- Kernels for generalized multiple-instance learning 2084–2098  
*Q. Tao, S. D. Scott, N. V. Vinodchandran, T. T. Osugi and B. Mueller*
- Groupwise geometric and photometric direct image registration 2098–2108  
*A. Bartoli*
- Combined top-down/bottom-up segmentation 2109–2125  
*E. Borenstein and S. Ullman*
- IRGS: image segmentation using edge penalties and region growing 2126–2139  
*Q. Yu and D. A. Clausi*
- Structure inference for Bayesian multisensory scene understanding 2140–2157  
*T. M. Hospedales and S. Vijayakumar*
- Unsupervised category modeling, recognition, and segmentation in images 2158–2174  
*S. Todorovic and N. Ahuja*
- Nonlinear scale space with spatially varying stopping time 2175–2187  
*G. Gilboa*
- Disconnected skeleton: shape at its absolute scale 2188–2203  
*C. Aslan, A. Erdem, E. Erdem and S. Tari*
- Euclidean skeletons of digital image and volume data in linear time by the integer medial axis transform 2204–2217  
*W. H. Hesselink and J. B. T. M. Roerdink*
- Prediction of the thermal imaging minimum resolvable (circle) temperature difference with neural network application 2218–2228  
*Y.-C. Fang and B.-W. Wu*
- Correlation metric for generalized feature extraction 2229–2235  
*Y. Fu, S. Yan and T. S. Huang*
- Latent-space variational Bayes 2236–2242  
*J.-M. Sung, Z. Ghahramani and S. Y. Bang*
- 1D camera geometry and its application to the self-calibration of circular motion sequences 2243–2248  
*K.-Y. K. Wong, G. Zhang, C. Liang and H. Zhang*
- Three-dimensional surface relief completion via nonparametric techniques 2249–2255  
*T. P. Breckon and R. B. Fisher*

---

## International Journal of Computer Vision

**Vol. 76, No. 1**

**Articles**

- On the local behavior of spaces of natural images 1–12  
*G. Carlsson, T. Ishkhanov, V. de Silva and A. Zomorodian*
- A theory of refractive and specular 3D shape by light-path triangulation 13–29  
*K. N. Kutulakos and E. Steger*
- A general method for sensor planning in multi-sensor systems: extension to random occlusion 31–52  
*A. Mittal and L. S. Davis*

3-D depth reconstruction from a single still image 53–69

*A. Saxena, S. H. Chung and A. Y. Ng*

Facial shape-from-shading and recognition using principal geodesic analysis and robust statistics 71–91

*W. A. P. Smith and E. R. Hancock*

Using biologically inspired features for face processing 93–104

*E. Meyers and L. Wolf*

**Vol. 76, No. 2**

Editorial 105

*C. Schmid, S. Soatto and C. Tomasi*

**Articles**

Probabilistic fusion of stereo with color and contrast for bi-layer segmentation 107

*V. Kolmogorov, A. Criminisi, A. Blake, G. Cross and C. Rother*

Fast non-rigid surface detection, registration and realistic augmentation 109–122

*J. Pilet, V. Lepetit and P. Fua*

Nonlocal image and movie denoising 123–139

*A. Buades, B. Coll and J.-M. Morel*

Video epitomes 141–152

*V. Cheung, B. J. Frey and N. Jojic*

FLIRT with rigidity—image registration with a local non-rigidity penalty 153–163

*J. Modersitzki*

Model of frequency analysis in the visual cortex and the shape from texture problem 165–182

*C. Massot and J. Héroult*

Multi-view AAM fitting and construction 183–204

*K. Ramnath, S. Koterba, J. Xiao, C. Hu, I. Matthews, S. Baker, J. F. Cohn and T. Kanade*

Over-parameterized variational optical flow 205–216

*T. Nir, A. M. Bruckstein and R. Kimmel*

**Vol. 76, No. 3****Articles**

A tensor approximation approach to dimensionality reduction 217–229

*H. Wang and N. Ahuja*

Prior knowledge, level set representations & visual grouping 231–243

*M. Rousson and N. Paragios*

3-D reconstruction of shaded objects from multiple images under unknown illumination 245–256

*H. Jin, D. Cremers, D. Wang, E. Prados, A. J. Yezzi and S. Soatto*

Simultaneous facial action tracking and expression recognition in the presence of head motion 257–281

*F. Dornaika and F. Davoine*

High resolution tracking of non-rigid motion of densely sampled 3D data using harmonic maps 283–300

*Y. Wang, M. Gupta, S. Zhang, S. Wang, X. Gu, D. Samaras and P. Huang*

Learning layered motion segmentations of video 301–319

*M. P. Kumar, P. H. S. Torr and A. Zisserman*

**Vol. 77, Nos. 1–3**

## Guest editorial 1

*W. T. Freeman, P. Perona and B. Schölkopf*

**Articles**

Learning to locate informative features for visual identification 3–24

*A. Ferencz, E. G. Learned-Miller and J. Malik*

Nonparametric Bayesian image segmentation 25–45

*P. Orbanz and J. M. Buhmann*

Learning probabilistic models for contour completion in natural images 47–63

*X. Ren, C. Fowlkes and J. Malik*

On the design of cascades of boosted ensembles for face detection 65–86

*S. C. Brubaker, J. Wu, J. Sun, M. D. Mullin and J. M. Rehg*

Fast transformation-invariant component analysis 87–101

*A. Kamran, N. Jojic and B. J. Frey*

Learning and inferring motion patterns using parametric segmental switching linear dynamic systems 103–124

*S. M. Oh, J. M. Rehg, T. R. Balch and F. Dellaert*

Incremental learning for robust visual tracking 125–141

*D. A. Ross, J. Lim, R.-S. Lin and M.-H. Yang*

From Aardvark to Zorro: a benchmark for mammal image classification 143–156

*M. Fink and S. Ullman*

LabelMe: a database and Web-based tool for image annotation 157–173

*B. C. Russell, A. B. Torralba, K. P. Murphy and W. T. Freeman*

Efficient learning of relational object class models 175–198

*A. Bar-Hillel and D. Weinshall*

Evaluation of localized semantics: data, methodology, and experiments 199–217

*K. Barnard, Q. Fan, R. Swaminathan, A. Hoogs, R. Collins, P. Rondot and J. P. Kaufhold*

Learning to recognize objects with little supervision 219–237

*P. Carbonetto, G. Dorkó, C. Schmid, H. Kück and N. de Freitas*

Hybrid generative-discriminative visual categorization 239–258

*A. Holub, M. Welling and P. Perona*

Robust object detection with interleaved categorization and segmentation 259–289

*B. Leibe, A. Leonardis and B. Schiele*

Describing visual scenes using transformed objects and parts 291–330

*E. B. Sudderth, A. B. Torralba, W. T. Freeman and A. S. Willsky*

**Vol. 78, No. 1****Articles**

Pairwise matching of 3D fragments using cluster trees 1–13

*S. Winkelbach and F. M. Wahl*

Multilevel image coding with hyperfeatures 15–27

*A. Agarwal and B. Triggs*

A deformable object tracking algorithm based on the boundary element method that is robust to occlusions and spurious edges 29–45

*M. A. Greminger and B. J. Nelson*

Region-based hierarchical image matching 47–66

*S. Todorovic and N. Ahuja*

Analysis of two-dimensional non-rigid shapes 67–88

*A. M. Bronstein, M. M. Bronstein, A. M. Bruckstein and R. Kimmel*

Identical projective geometric properties of central catadioptric line images and sphere images with applications to calibration 89–105

*X. Ying and H. Zha*

Mutual information-based 3D object tracking 107–118

*G. Panin and A. Knoll*

**Vol. 78, Nos. 2–3****Articles**

Modeling and representations of large-scale 3D scenes 119–120

*Z. Zhu and T. Kanade*

3D urban scene modeling integrating recognition and reconstruction 121–141

*N. Cornelis, B. Leibe, K. Cornelis and L. J. Van Gool*

Detailed real-time urban 3D reconstruction from video 143–167

*M. Pollefeys, D. Nistér, J.-M. Frahm, A. Akbarzadeh, P. Mordohai, B. Clipp, C. Engels, D. Gallup,*

*S. J. Kim, P. Merrell, C. Salmi, S. N. Sinha,*

*B. Talton, L. Wang, Q. Yang, H. Stewénius, R. Yang, G. Welch and H. Towles*

Scanning depth of route panorama based on stationary blur 169–186

*J. Y. Zheng and M. Shi*

Minimal aspect distortion (MAD) mosaicing of long scenes 187–206

*A. Rav-Acha, G. Engel and S. Peleg*

Flying laser range sensor for large-scale site-modeling and its applications in Bayon digital archival project 207–222

*A. Banno, T. Masuda, T. Oishi and K. Ikeuchi*

Architectural modeling from sparsely scanned range data 223–236

*J. Chen and B. Chen*

Integrating automated range registration with multi-view geometry for the photorealistic modeling of large-scale scenes 237–260

*I. Stamos, L. Liu, C. Chen, G. Wolberg, G. Yu and S. Zokai*

Building illumination coherent 3D models of large-scale outdoor scenes 261–280

*A. Troccoli and P. K. Allen*

## International Journal of Intelligent Systems

### Vol. 22, No. 7

Preface to the special issue on advances in fuzzy database technology 661–663

*R. M. M. De Caluwe and G. De Tré*

#### Articles

A flexible approach to evaluating soft conditions with unequal preferences in fuzzy databases 665–689

*G. Bordogna and G. Pasi*

About yes/no queries against possibilistic databases 691–721

*P. Bosc and O. Pivert*

Flexible querying of semistructured data: a fuzzy-set-based approach 723–737

*M. de Calmès, H. Prade and F. Sedes*

Perspectives on ontology-based querying 739–761

*R. Knappe, H. Bulskov and T. Andreassen*

Attribute-oriented fuzzy generalization in proximity- and similarity-based relational database systems 763–779

*R. A. Angryk and F. E. Petry*

Managing fuzziness on conventional object-oriented platforms 781–803

*F. Berzal, N. Marín, O. Pons and M. A. V. Miranda*

Design and implementation of index structures for fuzzy spatial databases 805–826

*A. Sözer and A. Yazici*

### Vol. 22, No. 8

#### Articles

A distributed adverse drug reaction detection system using intelligent agents with a fuzzy recognition-primed decision model 827–845

*Y. Ji, H. Ying, J. Yen, S. Zhu, D. C. Barth-Jones, R. E. Miller and R. M. Massanari*

An evolutionary strategy for decremental multiobjective optimization problems 847–866

*S. U. Guan, Q. Chen and W. Mo*

A fuzzy logic approach to experience-based reasoning 867–889

*Z. Sun and G. R. Finnie*

Solution of fuzzy matrix games: an application of the extension principle 891–903

*S.-T. Liu and C. Kao*

### Vol. 22, No. 9

#### Articles

Introduction: genetic fuzzy systems 905–907

*B. Carse and A. G. Pipe*

Local identification of prototypes for genetic learning of accurate TSK fuzzy rule-based systems 909–941

*R. Alcalá, J. Alcalá-Fdez, J. Casillas, O. Cordón and F. Herrera*

Improving interpretability in approximative fuzzy models via multiobjective evolutionary algorithms 943–969

*A. F. Gómez-Skarmeta, F. Jiménez and G. Sánchez*

Genetic fuzzy systems to evolve interaction strategies in multiagent systems 971–991

*I. Walter and F. A. C. Gomide*

Fuzzy classifier system architectures for mobile robotics: an experimental comparison 993–1019

*A. G. Pipe and B. Carse*

Boosting fuzzy rules in classification problems under single-winner inference 1021–1034

*L. Sánchez and J. Otero*

Increasing fuzzy rules cooperation based on evolutionary adaptive inference systems 1035–1064

*J. Alcalá-Fdez, F. Herrera, F. A. Márquez and A. Peregrín*

### Vol. 22, No. 10

#### Articles

Pyramid collaborative filtering technique for an intelligent autonomous guide agent 1065–1082

*M. A. Razek, C. Frasson and M. Kaltenbach*

A Web-based high-performance multicriteria decision support system for medical diagnosis 1083–1099

*S. Rahimi, L. Gandy and N. Mogharreban*

Interactive knowledge management for agent-assisted Web navigation 1101–1122

*V. Loia, W. Pedrycz, S. Senatore and M. I. Sessa*

Active network architecture and management 1123–1138

*R. Ladner, E. Warner, U. Katikaneni, F. P. McCreedy and F. E. Petry*

Smart server: concepts and applications 1139–1154

*J. Gourd, M. Cobb, P. Wahjudi and D. Ali*

### Vol. 22, No. 11

#### Articles

Information coverage in advisory brokers 1155–1188

*P. van Bommel, H. A. Proper and T. P. van der Weide*

A hybrid fuzzy cognitive model based on weighted OWA operators and single-antecedent rules 1189–1196

*Z. Lv and L. Zhou*

A model of an information retrieval system with unbalanced fuzzy linguistic information 1197–1214

*E. Herrera-Viedma and A. G. López-Herrera*

Generalization of belief and plausibility functions to fuzzy sets based on the Sugeno integral 1215–1228

*C.-M. Hwang and M.-S. Yang*

### Vol. 22, No. 12

#### Articles

Evaluation of design requirements using fuzzy out-ranking methods 1229–1250

*T. Ertay and C. Kahraman*

Agent negotiation of target distribution enhancing system survivability 1251–1269

*N. Xiong, H. Christensen and P. Svensson*

Effective database processing for classification and regression with continuous variables 1271–1285

*E. D. Tomaso and J. F. Baldwin*

Generalized consistency and intensity vectors for comparison matrices 1287–1300

*L. D'Apuzzo, G. Marcarelli and M. Squillante*

### Vol. 23, No. 1

#### Articles

A knowledge-based approach to adversarial decision making 1–21

*R. R. Yager*

A neural network approach to prediction of glass transition temperature of polymers 22–32

*X. Chen, L. M. Sztandera and H. M. Cartwright*

Least-squared ordered weighted averaging operator weights 33–49

*B. S. Ahn and H. Park*

An algorithm for modelling key terms 50–81

*D. Cai and C. J. van Rijsbergen*

Buddy: harnessing the power of the Internet 82–111

*D. Boulware, J. Salerno, N. Zumel and M. Manno*

### Vol. 23, No. 2

Editorial: modeling decisions for artificial intelligence 113–114

*V. Torra, Y. Narukawa and T. Gakuen*

**Articles**

Choquet-Stjeljes integral as a tool for decision modeling 115–127

*Y. Narukawa and T. Murofushi*

Unsupervised aggregation of commensurate correlated attributes by means of the Choquet integral and entropy functionals 128–154

*I. Kojadinovic*

A consistency-based procedure to estimate missing pairwise preference values 155–175

*S. Alonso, F. Chiclana, F. Herrera, E. Herrera-Viedma, J. Alcalá-Fdez and C. Porcel*

Algorithms of nonlinear document clustering based on fuzzy multiset model 176–198

*K. Mizutani, R. Inokuchi and S. Miyamoto*

Fuzzy integrals—what are they? 199–212

*R. Mesiar and A. Mestiarová*

Two steps reinforcement learning 213–245

*F. Fernández and D. Borrajo*

Real-parameter crossover operators with multiple descendents: an experimental study 246–268

*A. M. Sánchez, M. Lozano, C. García-Martínez, D. Molina and F. Herrera*

**Vol. 23, No. 3****Articles**

Wasp swarm optimization of the c-means clustering model 269–285

*T. A. Runkler*

A new semantics for ACL based on commitments and penalties 286–312

*L. Amgoud and F. D. de Saint-Cyr*

Selective sampling for approximate clustering of very large data sets 313–331

*L. Wang, J. C. Bezdek, C. Leckie and K. Ramamohanarao*

On weighted P-quantile aggregation 332–354

*J. Hao and J.-H. Wang*

On the difference of fuzzy sets 355–363

*C. Alsina and E. Trillas*

On similarity measures between intuitionistic fuzzy sets 364–383

*W.-L. Hung and M.-S. Yang*

A self-organizing recurrent fuzzy CMAC model for dynamic system identification 384–396

*C.-J. Lin and C.-Y. Lee*

**Vol. 23, No. 4****Articles**

Context adaptation of Mamdani fuzzy rule based systems 397–418

*A. Botta, B. Lazzerini and F. Marcelloni*

The use of ontologies for representing database schemas of fuzzy information 419–445

*I. J. Blanco, M. A. V. Miranda and C. Martínez-Cruz*

Measuring simultaneous belongingness for sets of objects 446–454

*V. Torra*

An evolutionary algorithm for constructing a decision forest: combining the classification of disjoint decision trees 455–482

*L. Rokach*

An efficient triplet-based algorithm for evidential reasoning 483–516

*Y. Bi*

**Vol. 23, No. 5****Articles**

Advantages, problems, and trends in contemporary intelligent systems 517–519

*M. B. Hadjiski, V. S. Sgurev and V. S. Jotsov*

Improved process monitoring using nonlinear principal component models 520–544

*D. Antory, G. W. Irwin, U. Kruger and G. McCullough*

Adaptive modeling and discovery in bioinformatics: the evolving connectionist approach 545–555

*N. Kasabov*

Complexity versus integrity solution in adaptive fuzzy-neural inference models 556–573

*G. M. Dimirovski*

Uncertain variables and their applications in knowledge-based decision systems: new results and perspectives 574–587

*Z. Bubnicki*

Applications in intelligent systems of knowledge discovery methods based on human-machine interaction 588–606

*V. S. Jotsov and V. S. Sgurev*

A fast and compact classifier based on sorting in an iteratively expanded input space 607–618

*R. Dogaru and M. Glesner*

Computational intelligence approach to real-world cooperative vehicle dispatching problem 619–634

*F. Dong, K. Chen and K. Hirota*

**Vol. 23, No. 6****Articles**

Data integration constraints for consistent data redundancy in fuzzy databases 635–653

*J. Y.-C. Liu*

The hybrid representation model for Web document classification 654–679

*A. Markov, M. Last and A. Kandel*

Generation of interval-valued fuzzy and atanasov's intuitionistic fuzzy connectives from fuzzy connectives and from Kalpha operators: laws for conjunctions and disjunctions, amplitude 680–714

*H. B. Sola, E. B. Tartas and M. Pagola*

Record linkage for database integration using fuzzy integrals 715–734

*V. Torra and J. Nin*

Meteorological data analysis using self-organizing maps 735–759

*T. Tambouratzis and G. Tambouratzis*

**Vol. 23, No. 7****Articles**

HILK: a new methodology for designing highly interpretable linguistic knowledge bases using the fuzzy logic formalism 761–794

*J. M. Alonso, L. Magdalena and S. Guillaume*

An alternative, layout-driven approach to the clustering of documents 795–821

*V. Loia and S. Senatore*

Formalizing context-based reasoning: a modeling paradigm for representing tactical human behavior 822–847

*A. J. Gonzalez, B. S. Stensrud and G. C. Barrett*

Mapping the forms of meaning in small worlds 848–862

*B. Gaume*

**Vol. 23, No. 8**

Foreword 863–865

*D. Dubois and H. Prade*

An introduction to bipolar representations of information and preference 866–877

*D. Dubois and H. Prade*

An evolutionist approach to information bipolarity: representations and affects in human cognition 878–897

*E. Raufaste and S. Vautier*

Bipolarity in human reasoning and affective decision making 898–922

*R. Da Silva Neves and P. Livet*

**Vol. 23, No. 9****Articles**

Two routes for bipolar information processing, and a blind spot in between 923–929

*J.-F. Bonnefon*

Bipolar and bivariate models in multicriteria decision analysis: descriptive and constructive approaches 930–969

*M. Grabisch, S. Greco and M. Pirlot*

Bipolar preference modeling and aggregation in decision support 970–984

*M. Öztürk and A. Tsoukiàs*

Logical formalisms for representing bipolar preferences 985–997

*S. Kaci*

**Vol. 23, No. 10**

**Articles**

Accepting/rejecting propositions from accepted/rejected propositions: a unifying overview 999–1020

*R. Caferra and N. Peltier*

Logical approaches to deontic reasoning: from basic questions to dynamic solutions 1021–1045

*P. Balbiani*

Bipolarity in bilattice logics 1046–1061

*S. Konieczny, P. Marquis and P. Besnard*

On bipolarity in argumentation frameworks 1062–1093

*L. Amgoud, C. Cayrol, M.-C. Lagasquie-Schiex and P. Livet*

Modeling positive and negative information in possibilistic theory 1094–1118

*S. Benferhat, D. Dubois, S. Kaci and H. Prade*

Case-based learning in a bipolar possibilistic framework 1119–1134

*J. Beringer and E. Hüllermeier*

Bipolar version space learning 1135–1152

*H. Prade and M. Serrurier*

**Vol. 23, No. 11**

**Articles**

Fuzzy multiattribute evaluation of R&D projects using a real options valuation model 1153–1176

*A. Ç. Tolga and C. Kahraman*

Symbolic verification of multiagent graphical decision models 1177–1195

*Y. Zeng and K.-L. Poh*

Intelligent social network analysis using granular computing 1197–1219

*R. R. Yager*

**Vol. 23, No. 12**

Guest editorial to the special issue on aggregation operators for information systems 1221–1222

*E. Herrera-Viedma and G. Pasi*

**Articles**

Web retrieval: techniques for the aggregation and selection of queries and answers 1223–1234

*D. F. Nettleton and R. A. Baeza-Yates*

Applying aggregation operators for information access systems: an application in digital libraries 1235–1250

*E. Herrera-Viedma, J. L. Gijón, S. Alonso, J. Vilchez,*

*C. García, L. Villén and A. G. López-Herrera*

Empirical assessment of a collaborative filtering algorithm based on OWA operators 1251–1263

*M.-Á. Sicilia, E. G. Barriocanal and S. S. Alonso*

A flexible model for the evaluation of soft conditional preferences in fuzzy databases 1264–1281

*G. Bordogna and G. Pasi*

Ontological support for a measurement and evaluation framework 1282–1300

*L. Olsina, F. Papa and H. Molina*

## International Journal of Software Engineering and Knowledge Engineering

**Vol. 18, No. 1**

**Articles**

Software effort estimation by analogy using attribute selection based on rough set analysis 1–23

*J. Li and G. Ruhe*

A software component representation model for compositional reuse 25–36

*R. Nath and A. Vohra*

Measurement in software engineering: from the roadmap to the crossroads 37–64

*C. G. P. Bellini, R. de Cássia de Faria Pereira and J. L. Becker*

Design of a CIL connector to spin 65–91

*Y. Li and R. Xue*

An approach to testing black-box components using contract-based mutation 93–117

*Y. Jiang, S.-S. Hou, J. Shan, L. Zhang and B. Xie*

Composing multi-perspective software requirements specifications 119–153

*A. B. Barragáns-Martínez, J. J. P. Arias, A. F. Vilas,*

*J. G. Duque, M. L. Nores, R. P. D. Redondo and Y. Blanco-Fernández*

**Vol. 18, No. 2**

Guest editor's introduction 155–156

*A. Liu*

**Articles**

Software engineering for Web services workflow systems 157–178

*M. B. Blake and L. Singh*

Web services interactions: analysis, modeling, and management 179–198

*Z. Maamar, Q. Z. Sheng, D. Benslimane and H. Yahyaoui*

Dynamic service composition: a discovery-based approach 199–222

*J. Lee, S.-P. Ma, Y.-Y. Lin, S.-J. Lee and Y.-C. Wang*

An approach to checking behavioral compatibility between Web services 223–241

*H. S. Chae, J.-S. Lee and J. H. Bae*

A loosely coupled aspect language for SOA applications 243–262

*N. C. Mendonça, C. F. Silva, I. G. Maia,*

*M. A. F. Rodrigues and M. T. de Oliveira Valente*

**Vol. 18, No. 3**

**Articles**

A modeling methodology for conflict control in multi-agent systems 263–303

*J. Lian and S. M. Shatz*

Designing customized and tailorable visual interactive systems 305–325

*M. F. Costabile, D. Fogli, A. Marcante, P. Mussio,*

*L. P. Provenza and A. Piccinno*

Enhancing OWL ontologies with relation semantics 327–356

*C. R. Kothari and D. J. Russomanno*

On the online parameter estimation problem in adaptive software testing 357–381

*K.-Y. Cai, T. Y. Chen, Y.-C. Li, Y.-T. Yu and L. Zhao*

An ontological framework for Web service processes 383–411

*C. Pahl and R. Barrett*

Testing aspect-oriented programs with UML design models 413–437

*D. Xu, W. Xu and W. E. Wong*

**Vol. 18, No. 4**

Guest editors' introduction 439–441

*G. H. Huang, C. W. Chan and X. Zhang*

**Articles**

Knowledge-based reasoning enhanced control system for in-situ bioremediation processes 443–459

*Z. Hu, C. W. Chan and G. H. Huang*

An integrated game-theory based model for trans-boundary water resources management in North China: a case study in the Guanting reservoir basin (GRB), Beijing 461–483

*Z. Yang, Y. Zeng, Y. Cai and Q. Tan*

An intelligent agent mobile emissions model for urban environmental management 485–502

*C. Z. Wu, X. P. Yan, G. H. Huang and Y. P. Li*

- Developing a GIS-based information management system for on-site wastewater treatment facilities 503–513  
*S. Hu and J. Zhou*
- Reliability model for component-based systems in COSMIC (a case study) 515–539  
*O. Ormandjieva, M. A. Talib and A. Abran*
- On pi-calculus semantics as a formal basis for UML activity diagrams 541–567  
*V. S. W. Lam*
- Vol. 18, No. 5**
- Guest editors' introduction 569–571  
*N. T. Nguyen and J. Sobiecki*
- Articles**
- Integrating agent, service and organizational computing 573–596  
*L. Cao*
- Agent based data storage and distribution in data warehouses 597–617  
*N. Kolsi, A. Abdellatif and K. Ghédira*
- Experimental analysis of the effects of agent synchronization in asynchronous search algorithms 619–636  
*I. Muscalagiu, J. M. Vidal, V. Cretu, H. E. Popa and M. Panou*
- Intelligent positioning and optimal diversity schemes for mobile agents in ubiquitous networks 637–650  
*P. Kim and S. Chang*
- Verification of the mobile agent network simulator—a tool for simulating multi-agent systems 651–682  
*M. Kusek, K. Jurasovic and G. Jezic*
- Model checking of component based software using compositional reductions 683–712  
*M. Izadi and A. Movaghar*
- Vol. 18, No. 6**
- Articles**
- A tool based on DL for UML model consistency checking 713–735  
*J. Simmonds, M. C. Bastarrica, N. Hitschfeld-Kahler and S. Rivas*
- Verification of dataflow scheduling 737–758  
*T.-H. Chiang and L.-R. Dung*
- Optimizing reflective primitives of dynamic languages 759–783  
*J. M. Redondo, F. Ortin and J. M. C. Lovelle*
- A new approach to verify statechart specifications for reactive systems 785–802  
*Y. Mo and X. Yang*
- Reachability graph-based test sequence generation for concurrent programs 803–822  
*W. E. Wong and Y. Lei*
- An XML based methodology to model and use scenarios in the software development process 823–852  
*G. D. Penna, A. R. Laurenzi, S. Orefice and B. Intrigila*
- Vol. 18, No. 7**
- Articles**
- Supporting formal verification of DIMA multi-agents models: towards a framework based on Maude model checking 853–875  
*N. Boudiaf, F. Mokhati and M. Badri*
- My architecture: a knowledge representation meta-model for software architecture 877–894  
*A. Smeda, M. C. Oussalah and T. Khammaci*
- A transformation-based approach to application model development: class diagram generation 895–918  
*A. Naco, V. Wuwongse and C. Anutariya*
- Empirical evaluation and validation of interface complexity metrics for software components 919–931  
*A. Sharma, R. Kumar and P. S. Grover*
- A quantitative-based comparison of MaSE and OPM/MAS design results 933–963  
*A. Sturm, M. Taieb-Maimon and D. Goren-Bar*
- Improving software reliability modeling using machine learning techniques 965–986  
*F. Zou and J. Davis*
- Vol. 18, No. 8**
- Articles**
- State-based composition in UML 2 987–1011  
*F. Barbier and X. Aretxandieta*
- A review approach to detecting violations of consistency between specification and program structures 1013–1042  
*Y. Chen, S. Liu and W. E. Wong*
- Applying association mining to change propagation 1043–1061  
*L. Yu and S. R. Schach*
- Software reusability model for procedure based domain-specific software components 1063–1081  
*P. S. Sandhu and H. Singh*
- A high-efficiency knowledge management system based on habitual domains and intelligent agents 1083–1114  
*Y.-H. Chang and C.-L. Yang*
- The application-based domain analysis approach and its object-process methodology implementation 1115–1142  
*A. Sturm, D. Dori and O. Shehory*

## Journal of Artificial Intelligence Research

- Vol. 31**
- Articles**
- MiniMaxSAT: an efficient weighted max-SAT solver 1–32  
*F. Heras, J. Larrosa and A. Oliveras*
- Planning with durative actions in stochastic domains 33–82  
*Mausam and D. S. Weld*
- CUI networks: a graphical representation for conditional utility independence 83–112  
*Y. Engel and M. P. Wellman*
- CTL model update for system modifications 113–155  
*Y. Zhang and Y. Ding*
- Conjunctive query answering for the description logic SHIQ 157–204  
*B. Glimm, C. Lutz, I. Horrocks and U. Sattler*
- Sound and complete inference rules for SE-consequence 205–216  
*K. Wong*
- Loosely coupled formulations for automated planning: an integer programming perspective 217–257  
*M. H. L. van den Briel, T. Vossen and S. Kambhampati*
- On the expressiveness of Levesque's normal form 259–272  
*Y. Liu and G. Lakemeyer*
- Modular reuse of ontologies: theory and practice 273–318  
*B. C. Grau, I. Horrocks, Y. Kazakov and U. Sattler*
- The complexity of planning problems with simple causal graphs 319–351  
*O. Gimenez and A. Jonsson*
- Gesture salience as a hidden variable for coreference resolution and keyframe extraction 353–398  
*J. Eisenstein, R. Barzilay and R. Davis*
- Global inference for sentence compression: an integer linear programming approach 399–429  
*J. Clarke and M. Lapata*
- First order decision diagrams for relational MDPs 431–472  
*C. Wang, S. Joshi and R. Khordon*
- Axiomatic foundations for ranking systems 473–495  
*A. Altman and M. Tennenholtz*
- Exploiting subgraph structure in multi-robot path planning 497–542  
*M. R. K. Ryan*

- Creating relational data from unstructured and ungrammatical data sources 543–590  
*M. Michelson and C. A. Knoblock*
- A multiagent approach to autonomous intersection management 591–656  
*K. Dresner and P. Stone*
- Vol. 32**  
**Articles**  
 Cooperative search with concurrent interactions 1–36  
*E. Manisterski, D. Sarne and S. Kraus*
- Extended RDF as a semantic foundation of rule markup languages 37–94  
*A. Analyti, G. Antoniou, C. V. Damasio and G. Wagner*
- Graphical model inference in optimal control of stochastic multi-agent systems 95–122  
*B. van den Broek, W. Wiegerinck and B. Kappen*
- A constraint programming approach for solving a queueing control problem 123–167  
*D. Terekhov and J. C. Beck*
- Communication-based decomposition mechanisms for decentralized MDPs 169–202  
*C. V. Goldman and S. Zilberstein*
- New islands of tractability of cost-optimal planning 203–288  
*M. Katz and C. Domshlak*
- Optimal and approximate Q-value functions for decentralized POMDPs 289–353  
*F. A. Oliehoek, M. T. J. Spaan and N. Vlassis*
- Spectrum of variable-random trees 355–384  
*F. T. Liu, K. M. Ting, Y. Yu and Z. H. Zhou*
- On the qualitative comparison of decisions having positive and negative features 385–417  
*D. Dubois, H. Fargier and J. Bonnefon*
- Dynamic control in real-time heuristic search 419–452  
*V. Bulitko, M. Lustrek, J. Schaeffer, Y. Bjornsson and S. Sigmundarson*
- Adaptive stochastic resource control: a machine learning approach 453–486  
*B. C. Csaji and L. Monostori*
- Refining the execution of abstract actions with learned action models 487–523  
*F. Stulp and M. Beetz*
- Efficiency and envy-freeness in fair division of indivisible goods: logical representation and complexity 525–564  
*S. Bouveret and J. Lang*
- SATzilla: portfolio-based algorithm selection for SAT 565–606  
*L. Xu, F. Hutter, H. H. Hoos and K. Leyton-Brown*
- A unifying framework for structural properties of CSPs: definitions, complexity, tractability 607–629  
*L. Bordeaux, M. Cadoli and T. Mancini*
- A general theory of additive state space abstractions 631–662  
*F. Yang, J. Culberson, R. Holte, U. Zahavi and A. Felner*
- Online planning algorithms for POMDPs 663–704  
*S. Ross, J. Pineau, S. Paquet and B. Chaib-draa*
- M-DPOP: faithful distributed implementation of efficient social choice problems 705–755  
*A. Petcu, B. Faltings and D. C. Parkes*
- Compositional belief update 757–791  
*J. Delgrande, Y. Jin and F. J. Pelletier*
- Analogical dissimilarity: definition, algorithms and two experiments in machine learning 793–824  
*L. Miclet, S. Bayouduh and A. Delhay*
- Qualitative system identification from imperfect data 825–877  
*G. M. Coghill, A. Srinivasan and R. D. King*
- Latent tree models and approximate inference in Bayesian networks 879–900  
*Y. Wang, N. L. Zhang and T. Chen*
- The ultrametric constraint and its application to phylogenetics 901–938  
*N. C. A. Moore and P. Prosser*
- Optimal strategies for simultaneous Vickrey auctions with perfect substitutes 939–982  
*E. H. Gerding, R. K. Dash, A. Byde and N. R. Jennings*
- Vol. 33**  
**Articles**  
 Anytime induction of low-cost, low-error classifiers: a sampling-based approach 1–31  
*S. Esmeir and S. Markovitch*
- ICE: an expressive iterative combinatorial exchange 33–77  
*B. Lubin, A. I. Juda, R. Cavallo, S. Lahaie, J. Shneidman and D. C. Parkes*
- On the use of automatically acquired examples for all-nouns word sense disambiguation 79–107  
*D. Martinez, O. Lopez de Lacalle and E. Agirre*
- Networks of influence diagrams: a formalism for representing agents' beliefs and decision-making processes 109–147  
*Y. Gal and A. Pfeffer*
- Complexity of strategic behavior in multi-winner elections 149–178  
*R. Meir, A. D. Procaccia, J. S. Rosenschein and A. Zohar*
- A rigorously Bayesian beam model and an adaptive full scan model for range finders in dynamic environments 179–222  
*T. De Laet, J. De Schutter and H. Bruyninckx*
- Completeness and performance of the APO algorithm 223–258  
*T. Grinshpoun and A. Meisels*
- On similarities between inference in game theory and machine learning 259–283  
*I. Rezek, D. S. Leslie, S. Reece, S. J. Roberts, A. Rogers, R. K. Dash and N. R. Jennings*
- Computational logic foundations of KGP agents 285–348  
*A. Kakas, P. Mancarella, F. Sadri, K. Stathis and F. Toni*
- Learning partially observable deterministic action models 349–402  
*E. Amir and A. Chang*
- The computational complexity of dominance and consistency in CP-Nets 403–432  
*J. Goldsmith, J. Lang, M. Truszczynski and N. Wilson*
- An ordinal bargaining solution with fixed-point property 433–464  
*D. Zhang and Y. Zhang*
- AND/OR multi-valued decision diagrams (AOMDDs) for graphical models 465–519  
*R. Mateescu, R. Dechter and R. Marinescu*
- A multiagent reinforcement learning algorithm with non-linear dynamics 521–549  
*S. Abdallah and V. Lesser*
- Learning to reach agreement in a continuous ultimatum game 551–574  
*S. de Jong, S. Uyttendaele and K. Tuyls*
- On the value of correlation 575–613  
*I. Ashlagi, D. Monderer and M. Tennenholtz*
- The latent relation mapping engine: algorithm and experiments 615–655  
*P. D. Turney*

## Journal of Autonomous Agents and Multiagent Systems

**Vol. 16, No. 1**

**Articles**

- Secure mobile agent execution in virtual environment 1–12  
*U. Topaloglu and C. Bayrak*

- A capabilities-based model for adaptive organizations 13–56  
*S. A. DeLoach, W. H. Oyenan and E. T. Matson*
- A model of a trust-based recommendation system on a social network 57–74  
*F. E. Walter, S. Battiston and F. Schweitzer*

Task dynamics in self-organising task groups: expertise, motivational, and performance differences of specialists and generalists 75–94

*K. Zoethout, W. Jager and E. Molleman*

**Vol. 16, No. 2**

**Articles**

Using quantitative models to search for appropriate organizational designs 95–149

*B. Horling and V. R. Lesser*

Automated organization design for multi-agent systems 151–185

*M. Sims, D. D. Corkill and V. R. Lesser*

Agents that argue and explain classifications 187–209

*L. Amgoud and M. Serrurier*

**Vol. 16, No. 3**

**Articles**

Computational logic-based agents 211–213

*F. Toni and J. Bentahar*

2APL: a practical agent programming language 214–248

*M. Dastani*

Logic-based automated multi-issue bilateral negotiation in peer-to-peer e-marketplaces 249–270

*A. Ragone, T. Di Noia, E. Di Sciascio and*

*F. M. Donini*

DARE: a system for distributed abductive reasoning 271–297

*J. Ma, A. Russo, K. Broda and K. Clark*

Dynamic intention structures I: a theory of intention representation 298–326

*L. Hunsberger and C. L. Ortiz Jr*

A logic-based agent that plans for extended reachability goals 327–344

*S. do Lago Pereira and L. N. de Barros*

**Vol. 17, No. 1**

**Special Issue on Normative Multiagent Systems**

**Guest Editors: Leon van der Torre, Guido Boella and Harko Verhagen**

Introduction to the special issue 1–10

*G. Boella, L. van der Torre and H. Verhagen*

**Articles**

Prioritized conditional imperatives: problems and a new proposal 11–35

*J. Hansen*

BIO logical agents: norms, beliefs, intentions in defeasible logic 36–69

*G. Governatori and A. Rotolo*

Norms and plans as unification criteria for social collectives 70–112

*A. Gangemi*

From the specification to the implementation of norms: an automatic approach to generate rules from norms to govern the behavior of agents 113–155

*V. Torres da Silva*

**Vol. 17, No. 2**

**Articles**

Organisational change through influence 157–189

*M. McCallum, W. W. Vasconcelos and*

*T. J. Norman*

Formal models and algorithms for decentralized decision making under uncertainty 190–250

*S. Seuken and S. Zilberstein*

User evaluation of a market-based recommender system 251–269

*Y. Z. Wei, N. R. Jennings, L. Moreau and W. Hall*

New local diversification techniques for flexible job shop scheduling problem with a multi-agent approach 270–287

*M. Emmigrou and K. Ghédira*

A field-based versus a protocol-based approach for adaptive task assignment 288–319

*D. Weyns, N. Boucké and T. Holvoet*

Analyzing and visualizing multiagent rewards in dynamic and stochastic domains 320–338

*A. K. Agogino and K. Tumer*

Anticipation based on constraint processing in a multi-agent context 339–361

*A. Doniec, R. Mandiau, S. Piechowiak and S. Espié*

The Robotics Primer. M. J. Mataric [book review] 362–365

*J. M. O’Kane*

**Vol. 17, No. 3**

**Special Issue on Foundations, Advanced Topics and Industrial Perspectives of Multi-Agent**

Editorial to the special issue 367–371

*P. McBurney and A. Omicini*

**Articles**

Technology diffusion: analysing the diffusion of agent technologies 372–396

*J. McKean, H. Shorter, M. Luck, P. McBurney and*

*S. Willmott*

Industrial deployment of multi-agent technologies: review and selected case studies 397–431

*M. Pechoucek and V. Marik*

Artifacts in the A&A meta-model for multi-agent systems 432–456

*A. Omicini, A. Ricci and M. Viroli*

Autonomic communication services: a new challenge for software agents 457–475

*R. Quitadamo and F. Zambonelli*

## Journal of Logic, Language and Information

**Vol. 17, No. 2**

**Articles**

A remark on collective quantification 131–140

*J. Kontinen and J. Szymanik*

Pregroup grammars and Chomsky’s earliest examples 141–160

*J. Lambek*

The basic constructive logic for negation-consistency 161–181

*G. Robles*

Temporal languages for epistemic programs 183–216

*J. Sack*

Inessential features, ineliminable features, and modal logics for model theoretic syntax 217–227

*H.-J. Tiede*

Book review 229–231

*K. Broda*

Book review 233–236

*H.-J. Tiede*

**Vol. 17, No. 3**

**Articles**

Optionality, scope, and licensing: an application of partially ordered categories 237–283

*R. Bernardi and A. Szabolcsi*

Notions of sameness by default and their application to anaphora, vagueness, and uncertain reasoning 285–306

*A. Cohen, M. Kaminski and J. A. Makowsky*

Relational modality 307–322

*K. Glüer and P. Pagin*

Partially ordered connectives and monadic monotone strict NP 323–344

*L. Hella, M. Sevenster and T. Tulenheimo*

Highly constrained unification grammars 345–381

*D. Feinstein and S. Wintner*

Meaning and dialogue coherence: a proof-theoretic investigation 383

*P. Piwek*

**Vol. 17, No. 4****Formal Models for Real People****Articles**

Formal models for real people 385–389

*M. van Lambalgen and M. Counihan*

'if p then q' ... and all that: logical elements in reasoning and discourse 391–415

*M. Counihan*

Children's application of theory of mind in reasoning and language 417–442

*L. Flobbe, R. Verbrugge, P. Hendriks and I. Krämer*

Age differences in adults' use of referring expressions 443–466

*P. Hendriks, C. Englert, E. Wubs and J. Hoeks*

Discourse processing in attention-deficit hyperactivity disorder (ADHD) 467–487

*M. van Lambalgen, C. van Kruistum and E. Parigger*

Learning to apply theory of mind 489–511

*R. Verbrugge and L. Mol***Journal of Machine Learning Research****Vol. 9 (Jan)****Articles**

Max-margin classification of data with absent features 1–21

*G. Chechik, G. Heitz, G. Elidan, P. Abbeel and D. Koller*

Linear-time computation of similarity measures for sequential data 23–48

*K. Rieck and P. Laskov*

On the suitable domain for SVM training in image coding 49–66

*G. Camps-Valls, J. Gutiérrez, G. Gómez-Pérez and J. Malo*

Discriminative learning of max-sum classifiers 67–104

*V. Franc and B. Savchynskyy*

Active learning by spherical subdivision 105–130

*F.-F. Henrich and K. Obermayer***Vol. 9 (Feb)****Articles**

Evidence contrary to the statistical view of boosting 131–156

*D. Mease and A. Wyner*

Responses to evidence contrary to the statistical view of boosting

*K. P. Bennett 175–164**A. Buja and W. Stuetzle 165–170**Y. Freund and R. E. Schapire 171–174**J. Friedman, T. Hastie and R. Tibshirani 175–180**P. J. Bickel and Y. Ritov 181–186**P. Bühlmann and B. Yu 187–194*

Rejoinder to responses to evidence contrary to the statistical view of boosting 195–201

*D. Mease and A. Wyner*

Optimization techniques for semi-supervised support vector machines 203–233

*O. Chapelle, V. Sindhwani and S. S. Keerthi*

Near-optimal sensor placements in gaussian processes: theory, efficient algorithms and empirical studies 235–284

*A. Krause, A. Singh and C. Guestrin*

Support vector machinery for infinite ensemble learning 285–312

*H.-T. Lin and L. Li*

Algorithms for sparse linear classifiers in the massive data setting 313–337

*S. Balakrishnan and D. Madigan***Vol. 9 (Mar)****Articles**

Generalization from observed to unobserved features by clustering 339–370

*E. Krupka and N. Tishby*

A tutorial on conformal prediction 371–421

*G. Shafer and V. Vovk*

Theoretical advantages of lenient learners: an evolutionary game theoretic perspective 423–457

*L. Panait, K. Tuyls and S. Luke*

A recursive method for structural learning of directed acyclic graphs 459–483

*X. Xie and Z. Geng*

Model selection through sparse maximum likelihood estimation for multivariate gaussian or binary data 485–516

*O. Banerjee, L. El Ghaoui and A. d'Aspremont*

Comments on the complete characterization of a family of solutions to a generalized Fisher criterion 517–519

*J. Ye*

Estimating the confidence interval for prediction errors of support vector machine classifiers 521–540

*B. Jiang, X. Zhang and T. Cai*

An information criterion for variable selection in support vector machines (special topic on model selection) 541–558

*G. Claeskens, C. Croux and J. Van Kerckhoven***Vol. 9 (Apr)****Articles**

Closed sets for labeled data 559–580

*G. C. Garriga, P. Kralj and N. Lavrač*

Learning reliable classifiers from small or incomplete data sets: the naive credal classifier 2 581–621

*G. Corani and M. Zaffalon*

A library for locally weighted projection regression (machine learning open source software paper) 623–626

*S. Klanke, S. Vijayakumar and S. Schaal*

Trust region Newton method for logistic regression 627–650

*C.-J. Lin, R. C. Weng and S. S. Keerthi*

Graphical models for structured classification, with an application to interpreting images of protein subcellular location patterns 651–682

*S.-C. Chen, G. J. Gordon and R. F. Murphy*

Learning control knowledge for forward search planning 683–718

*S. Yoon, A. Fern and R. Givan*

Multi-class discriminant kernel learning via convex programming (special topic on model selection) 719–758

*J. Ye, S. Ji and J. Chen*

Bayesian inference and optimal design for the sparse linear model 759–813

*M. W. Seeger***Vol. 9 (May)****Articles**

Finite-time bounds for fitted value iteration 815–857

*R. Munos and C. Szepesvári*

An error bound based on a worst likely assignment 859–891

*E. Bax and A. Callejas*

Graphical methods for efficient likelihood inference in Gaussian covariance models 893–914

*M. Drton and T. S. Richardson*

Bouligand derivatives and robustness of support vector machines for regression 915–936

*A. Christmann and A. Van Messem*

Accelerated neural evolution through cooperatively coevolved synapses 937–965

*F. Gomez, J. Schmidhuber and R. Miikkulainen*

- Search for additive nonlinear time series causal models 937–965  
*T. Chu and C. Glymour*
- Vol. 9 (Jun)**  
**Articles**  
 Shark (machine learning open source software paper) 993–996  
*C. Igel, V. Heidrich-Meisner and T. Glasmachers*  
 Hit-miss networks with applications to instance selection 997–1017  
*E. Marchiori*  
 Consistency of trace norm minimization 1019–1048  
*F. R. Bach*  
 Learning similarity with operator-valued large-margin classifiers 1049–1082  
*A. Maurer*  
 Ranking categorical features using generalization properties 1083–1114  
*S. Sabato and S. Shalev-Shwartz*  
 A multiple instance learning strategy for combating good word attacks on spam filters 1115–1146  
*Z. Jorgensen, Y. Zhou and M. Inge*  
 Cross-validation optimization for large scale structured classification kernel methods 1147–1178  
*M. W. Seeger*  
 Consistency of the group lasso and multiple kernel learning 1179–1225  
*F. R. Bach*  
 Maximal causes for non-linear component extraction 1227–1267  
*J. Lücke and M. Sahani*
- Vol. 9 (Jul)**  
**Articles**  
 Optimal solutions for sparse principal component analysis 1269–1294  
*A. d’Aspremont, F. Bach and L. El Ghaoui*  
 Using Markov blankets for causal structure learning (special topic on causality) 1295–1342  
*J.-P. Pellet and A. Elisseeff*  
 A Bahadur representation of the linear support vector machine 1343–1368  
*J.-Y. Koo, Y. Lee, Y. Kim and C. Park*  
 Coordinate descent method for large-scale L2-loss linear support vector machines 1369–1398  
*K.-W. Chang, C.-J. Hsieh and C.-J. Lin*  
 Online learning of complex prediction problems using simultaneous projections 1399–1435  
*Y. Amit, S. Shalev-Shwartz and Y. Singer*  
 Causal reasoning with ancestral graphs (special topic on causality) 1437–1474  
*J. Zhang*  
 Incremental identification of qualitative models of biological systems using inductive logic programming 1475–1533  
*A. Srinivasan and R. D. King*  
 Learning to combine motor primitives via greedy additive regression 1535–1558  
*M. Chhabra and R. A. Jacobs*  
 Aggregation of SVM classifiers using Sobolev spaces 1559–1582  
*S. Loutau*  
 Dynamic hierarchical Markov random fields for integrated Web data extraction 1583–1614  
*J. Zhu, Z. Nie, B. Zhang and J.-R. Wen*  
 Universal multi-task kernels 1615–1646  
*A. Caponnetto, C. A. Micchelli, M. Pontil and Y. Ying*
- Vol. 9 (Aug)**  
**Articles**  
 A new algorithm for estimating the effective dimension-reduction subspace 1647–1678  
*A. S. Dalalyan, A. Juditsky and V. Spokoiny*  
 Value function based reinforcement learning in changing Markovian environments 1679–1709  
*B. C. Csáji and L. Monostori*  
 Regularization on graphs with function-adapted diffusion processes 1711–1739  
*A. D. Szlam, M. Maggioni and R. R. Coifman*  
 Nearly uniform validation improves compression-based error bounds 1741–1755  
*E. Bax*  
 Learning from multiple sources 1757–1774  
*K. Crammer, M. Kearns and J. Wortman*  
 Exponentiated gradient algorithms for conditional random fields and max-margin Markov networks 1775–1822  
*M. Collins, A. Globerson, T. Koo, X. Carreras and P. L. Bartlett*  
 Classification with a reject option using a hinge loss 1823–1840  
*P. L. Bartlett and M. H. Wegkamp*  
 Learning balls of strings from edit corrections 1841–1870  
*L. Becerra-Bonache, C. de la Higuera, J.-C. Janodet and F. Tantini*  
 LIBLINEAR: a library for large linear classification (machine learning open source software paper) 1871–1874  
*R.-E. Fan, K.-W. Chang, C.-J. Hsieh, X.-R. Wang and C.-J. Lin*  
 On relevant dimensions in kernel feature spaces 1875–1908  
*M. L. Braun, J. M. Buhmann and K.-R. Müller*  
 Manifold learning: the price of normalization 1909–1939  
*Y. Goldberg, A. Zakai, D. Kushnir and Y. Ritov*
- Vol. 9 (Sep)**  
**Articles**  
 Complete identification methods for the causal hierarchy (special topic on causality) 1941–1979  
*I. Shpitser and J. Pearl*  
 Mixed membership stochastic blockmodels 1981–2014  
*E. M. Airoldi, D. M. Blei, S. E. Fienberg and E. P. Xing*  
 Consistency of random forests and other averaging classifiers 2015–2033  
*G. Biau, L. Devroye and G. Lugosi*
- Vol. 9 (Oct)**  
**Articles**  
 Approximations for binary Gaussian process classification 2035–2078  
*H. Nickisch and C. E. Rasmussen*  
 Value function approximation using multiple aggregation for multiattribute resource management 2079–2111  
*A. George, W. B. Powell and S. R. Kulkarni*  
 Gradient tree boosting for training conditional random fields 2113–2139  
*T. G. Dietterich, G. Hao and A. Ashenfelter*  
 HPB: a model for handling BN nodes with high cardinality parents 2141–2170  
*J. J. Filho and J. Wainer*  
 A moment bound for multi-hinge classifiers 2171–2185  
*B. Tarigan and S. A. van de Geer*  
 Ranking individuals by group comparisons 2187–2216  
*T.-K. Huang, C.-J. Lin and R. C. Weng*  
 Forecasting Web page views: methods and observations 2217–2250  
*J. Li and A. W. Moore*  
 Finding optimal Bayesian network given a superstructure 2251–2286  
*E. Perrier, S. Imoto and S. Miyano*  
 Randomized online PCA algorithms with regret bounds that are logarithmic in the dimension 2287–2320  
*M. K. Warmuth and D. Kuzmin*  
 Probabilistic characterization of random decision trees 2321–2348  
*A. Dhurandhar and A. Dobra*

Learning to select features using their properties  
2349–2376

*E. Krupka, A. Navot and N. Tishby*

Model selection in kernel based regression using the influence function (special topic on model selection)  
2377–2400

*M. Debruyne, M. Hubert and J. A. K. Suykens*

Non-parametric modeling of partially ranked data  
2401–2429

*G. Lebanon and Y. Mao*

**Vol. 9 (Nov)**

**Articles**

On the size and recovery of submatrices of ones in a random binary matrix 2431–2453

*X. Sun and A. B. Nobel*

Minimal nonlinear distortion principle for nonlinear independent component analysis 2455–2487

*K. Zhang and L. Chan*

On the equivalence of linear dimensionality-reducing transformations 2489–2490

*M. Loog*

SimpleMKL 2491–2521

*A. Rakotomamonjy, F. R. Bach, S. Canu and*

*Y. Grandvalet*

Active learning of causal networks with intervention experiments and optimal designs (special topic on causality) 2523–2547

*Y.-B. He and Z. Geng*

Stationary features and cat detection 2549–2578

*F. Fleuret and D. Geman*

Visualizing data using t-SNE 2579–2605

*L. van der Maaten and G. Hinton*

Model selection for regression with continuous kernel functions using the modulus of continuity (special topic on model selection) 2607–2633

*I. Koo and R. M. Kil*

**Vol. 9 (Dec)**

**Articles**

Multi-agent reinforcement learning in common interest and fixed sum stochastic games: an experimental study 2635–2675

*A. Bab and R. I. Brafman*

An extension on “statistical comparisons of classifiers over multiple data sets” for all pairwise comparisons 2677–2694

*S. García and F. Herrera*

JNCC2: the Java implementation of naive credal classifier 2 (machine learning open source software paper) 2695–2698

*G. Corani and M. Zaffalon*

Learning bounded treewidth Bayesian networks 2699–2731

*G. Elidan and S. Gould*

Automatic PCA dimension selection for high dimensional data and small sample sizes 2733–2759

*D. C. Hoyle*

Robust submodular observation selection 2761–2801

*A. Krause, H. B. McMahan, C. Guestrin and A. Gupta*

Magic moments for structured output prediction 2803–2846

*E. Ricci, T. De Bie and N. Cristianini*

Structural learning of chain graphs via decomposition 2847–2880

*Z. Ma, X. Xie and Z. Geng*

## Journal of Web Semantics

**Vol. 6, No. 1**

**Articles**

Semantic Web and Web 2.0 1–3

Electronic Edition (link) BibTeX

*M. Greaves and P. Mika*

Collective knowledge systems: where the social Web meets the Semantic Web 4–13

*T. Gruber*

Metcalfé’s law, Web 2.0, and the Semantic Web 14–20

*J. A. Hendler and J. Golbeck*

Using the Semantic Web for linking and reusing data across Web 2.0 communities 21–28

*U. Bojars, J. G. Breslin, A. Finn and S. Decker*

Mass argumentation and the Semantic Web 29–37

*I. Rahwan*

Discovering shared conceptualizations in folksonomies 38–53

*R. Jäschke, A. Hotho, C. Schmitz, B. Ganter and*

*G. Stumme*

hGRDDL: bridging microformats and RDFa 54–60

*B. Adida*

Bridging the Semantic Web and Web 2.0 with representational state transfer (REST) 61–69

*R. Battle and E. Benson*

The two cultures: mashing up Web 2.0 and the Semantic Web 70–75

*A. Ankolekar, M. Krötzsch, T. Tran and D. Vrandečić*

Ease of interaction plus ease of integration: combining Web 2.0 and the Semantic Web in a reviewing site 76–83

*T. Heath and E. Motta*

SweetWiki: a semantic wiki 84–97

*M. Buffa, F. L. Gandon, G. Erétéo, P. Sander and*

*C. Faron*

**Vol. 6, No. 2**

**Articles**

A method for computing lexical semantic distance using linear functionals 99–108

*D. Jensen, C. G. Giraud-Carrier and N. Davis*

IRS-III: a broker-based approach to Semantic Web services 109–132

*J. Domingue, L. Cabral, S. Galizia,*

*V. Tanasescu, A. Gugliotta, B. Norton and*

*C. Pedrinaci*

Translating the foundational model of anatomy into OWL 133–136

*N. F. Noy and D. L. Rubin*

Introduction to the special issue on “Semantic Multimedia” 137–138

*Y. S. Avrithis, N. E. O’Connor, S. Staab and*

*R. Troncy*

Automatic generation of matter-of-opinion video documentaries 139–150

*S. Bocconi, F. Nack and L. Hardman*

The Semantic Web as a newspaper media convergence facilitator 151–161

*R. García, F. Perdrix, R. Gil and M. Oliva*

ZemPod: a Semantic Web approach to podcasting 162–169

*Ò. Celma and Y. Raimond*

**Vol. 6, No. 3**

**Articles**

Syndication on the Web using a description logic approach 171–190

*C. Halaschek-Wiener and V. Kolovski*

ActiveRDF: embedding Semantic Web data into object-oriented languages 191–202

*E. Oren, B. Heitmann and S. Decker*

YAGO: A large ontology from Wikipedia and WordNet 203–217

*F. M. Suchanek, G. Kasneci and G. Weikum*

Ontology-driven, unsupervised instance population 218–236

*L. McDowell and M. J. Cafarella*

Falcon-AO: a practical ontology matching system 237–239

*W. Hu and Y. Qu*

**Vol. 6, No. 4**

Introduction to the special issue on the Semantic Web Challenge 2006 and 2007 241–242

*J. Golbeck, P. Mika and M. Uschold*

**Articles**

Semantic annotation and search of cultural-heritage collections: the multimedial e-culture demonstrator 243–249

*G. Schreiber, A. K. Amin, L. Aroyo, M. van Assem, V. de Boer, L. Hardman, M. Hildebrand, B. Omelayenko, J. van Ossenbruggen, A. Tordai, J. Wielemaker and B. J. Wielinga*

FOAFing the music: bridging the semantic gap in music recommendation 250–256

*Ó. Celma and X. Serra*

The DBin platform: a complete environment for Semantic Web communities 257–265

*G. Tummarello and C. Morbidoni*

Revyu: linking reviews and ratings into the Web of data 266–273

*T. Heath and E. Motta*

Potluck: data mash-up tool for casual users 274–282

*D. F. Huynh, R. C. Miller and D. R. Karger*

Recommendations based on semantically enriched museum collections 283–290

*Y. Wang, N. Stash, L. Aroyo, P. Gorgels, L. Rutledge and G. Schreiber*

Managing uncertainty and vagueness in description logics for the Semantic Web 291–308

*T. Lukasiewicz and U. Straccia*

OWL 2: the next step for OWL 309–322

*B. C. Grau, I. Horrocks, B. Motik, B. Parsia, P. F. Patel-Schneider and U. Sattler*

**Machine Learning****Vol. 69, No. 1****Articles**

Surrogate maximization/minimization algorithms and extensions 1–33

*Z. Zhang, J. T. Kwok and D.-Y. Yeung*

Classifying under computational resource constraints: anytime classification using probabilistic estimators 35–53

*Y. Yang, G. I. Webb, K. B. Korb and K. M. Ting*

Extending boosting for large scale spoken language understanding 55–74

*G. Tur*

**Vol. 69, Nos. 2–3**

Introduction to the special issue on COLT 2006 75–77

*A. Blum, G. Lugosi and H.-U. Simon*

**Articles**

DNF are teachable in the average case 79–96

*H. K. Lee, R. A. Servedio and A. Wan*

Unconditional lower bounds for learning intersections of halfspaces 97–114

*A. R. Klivans and A. A. Sherstov*

A primal-dual perspective of online learning algorithms 115–142

*S. Shalev-Shwartz and Y. Singer*

Tracking the best hyperplane with a simple budget perceptron 143–167

*G. Cavallanti, N. Cesa-Bianchi and C. Gentile*

Logarithmic regret algorithms for online convex optimization 169–192

*E. Hazan, A. Agarwal and S. Kale*

Competing with wild prediction rules 193–212

*V. Vovk*

Active sampling for multiple output identification 213–228

*S. Fine and Y. Mansour*

**Vol. 70, No. 1****Articles**

Feature selection via sensitivity analysis of SVM probabilistic outputs 1–20

*K. Q. Shen, C. J. Ong, X. P. Li and E. P. V. Wilder-Smith*

A linear fit gets the correct monotonicity directions 21–43

*M. Magdon-Ismail and J. Sill*

A formal framework and extensions for function approximation in learning classifier systems 45–88

*J. Drugowitsch and A. Barry*

Incorporating prior knowledge in support vector regression 89–118

*F. Lauer and G. Bloch*

**Vol. 70, Nos. 2–3**

Guest editorial to the special issue on inductive logic programming 119–120

*S. Muggleton, R. P. Otero and S. Colton*

**Articles**

QG/GA: a stochastic search for Progol 121–133

*S. Muggleton and A. Tamaddoni-Nezhad*

On the connection between the phase transition of the covering test and the learning success rate in ILP 135–150

*É. Alphonse and A. Osmani*

Compressing probabilistic Prolog programs 151–168

*L. De Raedt, K. Kersting, A. Kimmig, K. Revoredo and H. Toivonen*

Generalized ordering-search for learning directed probabilistic logical models 169–188

*J. Ramon, T. Croonenborghs, D. Fierens, H. Blockeel and M. Bruynooghe*

Margin-based first-order rule learning 189–206

*U. Rückert and S. Kramer*

ALLPAD: approximate learning of logic programs with annotated disjunctions 207–223

*F. Riguzzi*

Inductive logic programming for gene regulation prediction 225–240

*S. Fröhler and S. Kramer*

**Vol. 71, No. 1****Articles**

Inductive process modeling 1–32

*W. Bridewell, P. Langley, L. Todorovski and S. Dzeroski*

Joint feature re-extraction and classification using an iterative semi-supervised support vector machine algorithm 33–53

*Y. Li and C. Guan*

A k-norm pruning algorithm for decision tree classifiers based on error rate estimation 55–88

*M. Zhong, M. Georgiopoulos and G. C. Anagnostopoulos*

Learning near-optimal policies with Bellman-residual minimization based fitted policy iteration and a single sample path 89–129

*A. Antos, C. Szepesvári and R. Munos*

Discovering significant patterns 131

*G. I. Webb*

**Vol. 71, Nos. 2–3****Articles**

Learning  $(k, 1)$ -contextual tree languages for information extraction from Web pages 155–183

*S. Raeymaekers, M. Bruynooghe and J. Van den Bussche*

Learning the structure of dynamic Bayesian networks from time series and steady state measurements 185–217

*H. Lähdesmäki and I. Shmulevich*

- On reoptimizing multi-class classifiers 219–242  
*C. Bourke, K. Deng, S. D. Scott, R. E. Schapire and N. V. Vinodchandran*
- Improving the structure MCMC sampler for Bayesian networks by introducing a new edge reversal move 265–305  
*M. Grzegorzczak and D. Husmeier*
- Layered critical values: a powerful direct-adjustment approach to discovering significant patterns 307–323  
*G. I. Webb*
- Vol. 72, Nos. 1–2**  
 Guest editors' introduction to the special issue on learning theory (COLT-2007) 1–4  
*N. H. Bshouty and C. Gentile*
- Articles**  
 Sketching information divergences 5–19  
*S. Guha, P. Indyk and A. McGregor*
- Regret to the best vs. regret to the average 21–37  
*E. Even-Dar, M. Kearns, Y. Mansour and J. Wortman*
- Aggregation by exponential weighting, sharp PAC-Bayesian bounds and sparsity 39–61  
*A. S. Dalalyan and A. B. Tsybakov*
- U-shaped, iterative, and iterative-with-counter learning 63–88  
*J. Case and S. E. Moelius*
- A theory of learning with similarity functions 89–112  
*M.-F. Balcan, A. Blum and N. Srebro*
- Learning large-alphabet and analog circuits with value injection queries 113–138  
*D. Angluin, J. Aspnes, J. Chen and L. Reyzin*
- Robust reductions from ranking to classification 139–153  
*M.-F. Balcan, N. Bansal, A. Beygelzimer, D. Coppersmith, J. Langford and G. B. Sorkin*
- Vol. 72, No. 3**  
 Guest editors' introduction to the special issue of selected papers from ECML PKDD 2008 155–156  
*W. Daelemans, B. Goethals and K. Morik*
- Articles**  
 Rollout sampling approximate policy iteration 157–171  
*C. Dimitrakakis and M. G. Lagoudakis*
- Large margin vs. large volume in transductive learning 173–188  
*R. El-Yaniv, D. Pechyony and V. Vapnik*
- Incremental exemplar learning schemes for classification on embedded devices 189–203  
*A. Jain and D. Nikovski*
- New closed-form bounds on the partition function 205–229  
*D. Krishnamurthy, S. Chakrabarti and S. Chaudhuri*
- A collaborative filtering framework based on both local user similarity and global user similarity 231–245  
*H. Luo, C. Niu, R. Shen and C. Ullrich*
- A critical analysis of variants of the AUC 247–262  
*S. Vanderlooy and E. Hüllermeier*
- Improving maximum margin matrix factorization 263–276  
*M. Weimer, A. Karatzoglou and A. J. Smola*
- Vol. 73, No. 1**  
**Special issue on Inductive Logic Programming (ILP 2007)**  
 Guest editors' introduction to the special issue 1–2  
*H. Blockeel, J. W. Shavlik and P. Tadepalli*
- Articles**  
 Structured machine learning: the next ten years 3–23  
*T. G. Dietterich, P. Domingos, L. Getoor, S. Muggleton and P. Tadepalli*
- Learning to assign degrees of belief in relational domains 25–53  
*F. Koriche*
- Learning probabilistic logic models from probabilistic examples 55–85  
*J. Chen, S. Muggleton and J. C. A. Santos*
- A bias/variance decomposition for models using collective inference 87–106  
*J. Neville and D. Jensen*
- Vol. 73, No. 2**  
**Articles**  
 Improved MCMC sampling methods for estimating weighted sums in Winnow with application to DNF learning 107–132  
*Q. Tao and S. D. Scott*
- Multilabel classification via calibrated label ranking 133–153  
*J. Fürnkranz, E. Hüllermeier, E. L. Mencia and K. Brinker*
- Boosted Bayesian network classifiers 155–184  
*Y. Jing, V. Pavlovic and J. M. Rehg*
- Decision trees for hierarchical multi-label classification 185–214  
*C. Vens, J. Struyf, L. Schietgat, S. Dzeroski and H. Blockeel*
- Vol. 73, No. 3**  
 Guest editor's introduction to the special issue on inductive transfer learning 215–220  
*D. L. Silver and K. P. Bennett*
- Articles**  
 Flexible latent variable models for multi-task learning 221–242  
*J. Zhang, Z. Ghahramani and Y. Yang*
- Convex multi-task feature learning 243–272  
*A. Argyriou, T. Evgeniou and M. Pontil*
- A notion of task relatedness yielding provable multiple-task learning guarantees 273–287  
*S. Ben-David and R. S. Borbely*
- Transfer in variable-reward hierarchical reinforcement learning 289–312  
*N. Mehta, S. Natarajan, P. Tadepalli and A. Fern*
- Inductive transfer with context-sensitive neural networks 313–336  
*D. L. Silver, R. Poirier and D. Currie*

## Studia Logica

- Vol. 87, No. 1**  
**Articles**  
 Finitary polyadic algebras from cylindrical algebras 1–11  
*M. Ferenczi*
- A duality for the algebras of a Lukasiewicz  $n+1$ -valued modal system 13–36  
*B. Teheux*
- Second-order quantifier elimination in higher-order contexts with applications to the semantical analysis of conditionals 37–50  
*D. M. Gabbay and A. Szalas*
- Congruence coherent symmetric extended de Morgan algebras 51–63  
*T. S. Blyth and J. Fang*
- The insufficiency of the Dutch book argument 65–71  
*D. P. Rowbottom*
- Basic hoops: an algebraic study of continuous t-norms 73–98  
*P. Aglianò, I. M. A. Ferreirim and F. Montagna*
- Expanding quasi-MV algebras by a quantum operator 99–128  
*R. Giuntini, A. Ledda and F. Paoli*
- Book reviews 129–134  
*B. Wieckowski*
- Book review 135–138  
*J. P. Van Bendegeem*
- Vol. 87, Nos. 2–3**  
 Editorial introduction 139–144  
*W. Buszkowski and A. Preller*
- Articles**  
 Type logics and pregroups 145–169  
*W. Buszkowski*

- Linear processing with pregroups 171–197  
*A. Preller*
- Parsing pregroup grammars and Lambek calculus using partial composition 199–224  
*D. Béchet*
- Learnability of pregroup grammars 225–252  
*D. Béchet, A. Foret and I. Tellier*
- Applying pregroups to Italian statements and questions 253–268  
*C. Casadio*
- A mixed lambda-calculus 269–294  
*M.-R. Fleury and M. Quatrini*
- Commutation-augmented pregroup grammars and mildly context-sensitive languages 295–321  
*N. Francez and M. Kaminski*
- On the logic of beta-pregroups 323–342  
*A. Kislak-Malinowska*
- Should pregroup grammars be adorned with additional operations? 343–358  
*J. Lambek*
- Book reviews 359–362  
*M. Jago*
- Book Reviews**
- Mathematical Problems from Applied Logic I. D. M. Gabbay, S. S. Goncharov and M. Zakharyashev (eds) 363–367  
*A. Sogaard*
- The Seventeen Provers of the World. F. Wiedijk (ed.) 369–374  
*R. Kahle*
- Vol. 88, No. 1**
- Introduction to the special issue 1–2  
*H. Leügeb*
- Articles**
- Is logic all in our heads? From naturalism to psychologism 3–66  
*F. J. Pelletier, R. Elio and P. Hanson*
- Logic and reasoning: do the facts matter? 67–84  
*J. van Benthem*
- Resource-origins of nonmonotonicity 85–112  
*D. M. Gabbay and J. Woods*
- A new psychologism in logic? Reflections from the point of view of belief revision 113–136  
*H. Rott*
- Applied logic without psychologism 137–156  
*G. R. Wheeler*
- Indicative conditionals: factual or epistemic? 157–194  
*J. Cantwell*
- Vol. 88, No. 2**
- Articles**
- Symmetry as a criterion for comprehension motivating Quine's 'new foundations' 195–213  
*M. R. Holmes*
- Three-valued temporal logic  $Q_t$  and future contingents 215–231  
*S. Akama, Y. Nagata and C. Yamada*
- Decomposability of the finitely generated free hoop residuation algebra 233–246  
*M. A. Zander*
- Decidable cases of first-order temporal logic with functions 247–261  
*W. Hussak*
- What is the logic of inference? 263–294  
*J. Peregrin*
- Proper semantics for substructural logics, from a Stalker theoretic point of view 295–324  
*S. Kentaro*
- Vol. 88, No. 3**
- Articles**
- Constructive logic with strong negation is a substructural logic I 325–348  
*M. Spinks and R. Veroff*
- An approach to Glivenko's theorem in algebraizable logics 349–383  
*A. Torrens*
- Asymptotic densities in logic and type theory 385–403  
*Z. Kostrzycka and M. Zaionc*
- Suszko's thesis, inferential many-valuedness, and the notion of a logical system 405–429  
*H. Wansing and Y. Shramko*
- A model for structural changes of belief 431–451  
*E. Cresto*
- Vol. 89, No. 1**
- Articles**
- Infinitary action logic: complexity, models and grammars 1–18  
*W. Buszkowski and E. Palka*
- The variety of lattice effect algebras generated by MV-algebras and the horizontal sum of two 3-element chains 19–35  
*R. Halas*
- Properties of goal systems: consistency, conflict, and coherence 37–58  
*H. Rosencrantz*
- Don't ever do that! Long-term duties in  $PD e L$  59–79  
*J. Hughes and L. M. M. Royakkers*
- Towards a 'sophisticated' model of belief dynamics. Part I: The general framework 81–109  
*B. Hill*
- Forcing in Lukasiewicz predicate logic 111–145  
*A. di Nola, G. Georgescu and L. Spada*
- Erratum to Suszko's thesis, inferential many-valuedness, and the notion of a logical system (Studia Logica 88: 405–429) 147  
*H. Wansing and Y. Shramko*
- Book Reviews**
- Game Theory: 5 Questions. V. F. Hendricks and P. G. Hansen 149–150  
*J. Helzner*
- Vol. 89, No. 2**
- Articles**
- Formal methods in the philosophy of science 151–162  
*L. Horsten and I. Douven*
- Axiomatizing relativistic dynamics without conservation postulates 163–186  
*H. Andréka, J. X. Madarász, I. Németi and G. Székely*
- A dynamic-logical perspective on quantum behavior 187–211  
*A. Baltag and S. Smets*
- Structural realism, scientific change, and partial structures 213–235  
*O. A. S. Bueno*
- Emergence of information transfer by inductive learning 237–256  
*S. M. Huttegger and B. Skyrms*
- Finitistic and frequentistic approximation of probability measures with or without sigma-additivity 257–283  
*G. Schurz and H. Leitgeb*
- Book reviews 285–289  
*J. Symons*
- Vol. 89, No. 3**
- Articles**
- Towards a "sophisticated" model of belief dynamics. Part II: Belief revision 291–323  
*B. Hill*
- On complete representations of reducts of polyadic algebras 325–332  
*T. S. Ahmed*
- Probabilistic justification and the regress problem 333–341  
*J. Peijnenburg and D. Atkinson*
- On the proof theory of the modal mu-calculus 343–363  
*T. Studer*
- The method of Socratic proofs for modal propositional logics: K5, S4.2, S4.3, S4F, S4R, S4M and G 365–399  
*D. Leszczynska-Jasion*
- Constructive logic with strong negation is a substructural logic II 401–425  
*M. Spinks and R. Veroff*

Dynamic deontic logic and its paradoxes 427–435

*A. J. J. Anglberger*

Book reviews 437–439

*C. M. Teng*

Book reviews 441–445

*A. Herzig*

**Vol. 90, No. 1**

**Articles**

Many-valued logic and cognition: Foreword 1–2

*S. Ju and D. Mundici*

Some aspects of polyadic inductive logic 3–16

*J. Landes, J. B. Paris and A. Vencovská*

An n-player semantic game for an n+1-valued logic 17–23

*S. Ju and X. Wen*

De Finetti's No-Dutch-Book criterion for Gödel logic 25–41

*S. Aguzzoli, B. Gerla and V. Marra*

Dialogue games for many-valued logics—an overview 43–68

*C. G. Fermüller*

Rough sets and 3-valued logics 69–92

*A. Avron and B. Konikowska*

On some categories of involutive centered residuated lattices 93–124

*J. L. Castiglioni, M. Menni and M. Sagastume*

A note on prototypes, convexity and fuzzy sets 125–137

*N. Foo and B. T. Low*

**Vol. 90, No. 2**

**Articles**

Frame based formulas for intermediate logics 139–159

*N. Bezhanishvili*

Game semantics for the Lambek-calculus: capturing directionality and the absence of structural rules 161–188

*S. Shoham and N. Francez*

Ockham algebras with balanced double pseudocomplementation 189–209

*J. Fang*

On reduction rules, meaning-as-use, and proof-theoretic semantics 211–247

*R. J. G. B. de Queiroz*

Sharvy's Lucy and Benjamin puzzle 249–256

*T. Forster*

Ontological proofs of existence and non-existence 257–262

*P. Hájek*

Hyperformulas and solid algebraic systems 263–286

*K. Denecke and D. Plusanga*

## Theory and Practice of Logic Programming

**Vol. 8, No. 1**

**Articles**

Calculating modules in contextual logic program refinement 1–31

*R. Colvin, I. J. Hayes and P. A. Strooper*

Improving precision of type analysis using non-discriminative union 33–79

*L. Lu*

Linear tabling strategies and optimizations 81–109

*N.-F. Zhou, T. Sato and Y.-D. Shen*

Recurrence with affine level mappings is P-time decidable for CLP(R) 111–119

*F. Mesnard and A. Serebrenik*

Logic programming with satisfiability 121–128

*M. Codish, V. Lagoon and P. J. Stuckey*

**Vol. 8, No. 2**

**Articles**

Experimenting with recursive queries in database and logic programming systems 129–165

*G. Terracina, N. Leone, V. Lio and C. Panetta*

Logic programs with monotone abstract constraint atoms 167–199

*V. W. Marek, I. Niemelä and M. Truszczyński*

Improving Prolog programs: refactoring for Prolog 201–215

*A. Serebrenik, T. Schrijvers and B. Demoen*

A common view on strong, uniform, and other notions of equivalence in answer-set programming 217–234

*S. Woltran*

**Book Reviews**

Learn Prolog now! P. Blackburn, J. Bos and K. Striegnitz (College Publications, 2006 Paperback, ISBN 1-904987-17-6, xiv+265 pages) 235–242

*B. Demoen*

Constraint logic programming using ECLiPSe.

K. Apt and M. Wallace (Cambridge University Press, 2007 Hardback, ISBN 9780521866286, 348 pages) 242–246

*P. J. Stuckey*

**Vol. 8, No. 3**

Introduction to the special issue on logic programming and the Web 247–248

*M. Marchiori*

**Articles**

N3Logic: a logical framework for the World Wide Web 249–269

*T. Berners-Lee, D. Connolly, L. Kagal, Y. Scharf and J. Hendler*

Building rules on top of ontologies for the Semantic Web with inductive logic programming 271–300

*F. A. Lisi*

Translating OWL and Semantic Web rules into prolog: moving toward description logic programs 301–322

*K. Samuel, L. Obrst, S. Stoutenburg, K. Fox,*

*P. Franklin, A. Johnson, K. J. Laskey, D. Nichols,*

*S. Lopez and J. Peterson*

Querying XML documents in logic programming 323–361

*J. M. Almendros-Jiménez, A. Becerra-Terón and*

*F. J. Enciso-Baños*

SWI-Prolog and the Web 363–392

*J. Wilemaker, Z. Huang and L. van der Meij*

Query evaluation and optimization in the Semantic Web 393–409

*E. Ruckhaus, E. Ruiz and M.-E. Vidal*

Guarded hybrid knowledge bases 411–429

*S. Heymans, J. de Bruijn, L. Predoiu, C. Feier and*

*D. Van Nieuwenborgh*

**Vol. 8, No. 4**

**Articles**

Theory of finite or infinite trees revisited 431–489

*K. Djelloul, T.-B.-H. Dao and T. W. Frühwirth*

TCHR: a framework for tabled CLP 491–526

*T. Schrijvers, B. Demoen and D. S. Warren*

Preferred extensions as stable models 527–543

*J. C. Nieves, U. Cortés and M. Osorio*

**Vol. 8, Nos. 5–6**

**Articles**

Design and implementation of aggregate functions in the DLV system 545–580

*W. Faber, G. Pfeifer, N. Leone, T. Dell'Armi and*

*G. Ielpa*

Design and implementation of a tracer driver: easy and efficient dynamic analyses of constraint logic programs 581–609

*L. Langevine and M. Ducassé*

Checking the quality of clinical guidelines using automated reasoning tools 611–641

*A. Hommersom, P. J. F. Lucas and P. van Bommel*

Logic programming with social features 643–690

*F. Buccafurri and G. Caminiti*

Extended ASP Tableaux and rule redundancy in normal logic programs 691–716

*M. Järvisalo and E. Oikarinen*

Achieving compositionality of the stable model semantics for models programs 717–761

*E. Oikarinen and T. Janhunen*

## User Modeling and User-Adapted Interaction

### Vol. 18, Nos. 1–2

Introduction to special issue on affective modeling and adaptation 1–9

*S. Carberry and F. de Rosis*

#### Articles

The relative impact of student affect on performance models in a spoken dialogue tutoring system 11–43

*K. Forbes-Riley, M. Rotaru and D. J. Litman*

Automatic detection of learner's affect from conversational cues 45–80

*S. K. D'Mello, S. D. Craig, A. M. Witherspoon,*

*B. McDaniel and A. C. Graesser*

Modeling self-efficacy in intelligent tutoring systems: an inductive approach 81–123

*S. W. McQuiggan, B. W. Mott and J. C. Lester*

Diagnosing and acting on student affect: the tutor's perspective 125–173

*K. Porayska-Pomsta, M. Mavrikis and H. Pain*

Private emotions versus social interaction: a data-driven approach towards analysing emotion in speech 175–206

*A. Batliner, S. Steidl, C. Hacker and E. Nöth*

Entertainment capture through heart rate activity in physical interactive playgrounds 207–243

*G. N. Yannakakis, J. Hallam and H. H. Lund*

### Vol. 18, No. 3

#### Articles

Mediation of user models for enhanced personalization in recommender systems 245–286

*S. Berkovsky, T. Kuflik and F. Ricci*

Developing a generalizable detector of when students game the system 287–314

*R. S. J. de Baker, A. T. Corbett, I. Roll and*

*K. R. Koedinger*

### Vol. 18, No. 4

#### Articles

MUSIPER: a system for modeling music similarity perception based on objective feature subset selection 315–348

*D. N. Sotiropoulos, A. S. Lampropoulos and*

*G. A. Tsihrintzis*

A multifactor approach to student model evaluation 349–382

*M. V. Yudelson, O. Medvedeva and R. S. Crowley*

### Vol. 18, No. 5

#### Special issue on Personalizing Cultural Heritage

#### Exploration

Preface 383–387

*L. Ardissono and D. Petrelli*

#### Articles

LISTEN: a user-adaptive audio-augmented museum guide 389–416

*A. Zimmermann and A. Lorenz*

A stroll with Carletto: adaptation in drama-based tours with virtual characters 417–453

*R. Damiano, C. Gena, V. Lombardo, F. Nunnari and*

*A. Pizzo*

The effects of transparency on trust in and acceptance of a content-based art recommender 455–496

*H. S. M. Cramer, V. Evers, S. Ramlal, M. van*

*Someren, L. Rutledge, N. Stash, L. Aroyo and*

*B. J. Wielinga*

Tag-based user modeling for social multi-device adaptive guides 497–538

*F. Carmagnola, F. Cena, L. Console, O. Cortassa,*

*C. Gena, A. Goy, I. Torre, A. Toso and F. Vernerio*