A novel approach towards accurate matching of parasites p. 1
Design and construction of an odour sensor for various biomedical applications p. 6
Wavelet aided SVM analysis of ECG signals for cardiac abnormality detection p. 9
Efficient secured lossless compression of medical images using modified runlength coding for character representation p. 14
Speech enhancement using source features and group delay analysis p. 19
A morphology based approach for car license plate extraction p. 24
Improved MAP estimation of variance through arbitrary windows for wavelet denoising p. 28
An improved technique for wavelet transform based watermarking in images p. 32
Optimization of single-phase induction motor design using radial basis function network p. 35
Colour image segmentation using fuzzy clustering techniques p. 41
NRC: a neuro-rough classifier for landmine detection p. 46
Artificial intelligence techniques applied to intrusion detection p. 52
Distributed diagnosis in dynamic fault environments for arbitrary network topologies p. 56
A new fast stream cipher: MAJE4 p. 60
MAC protocol for UWB based adhoc networks p. 64
Teletraffic engineering based flow admission control for a DiffServ network p. 68
Stability analysis of first order plus time delay system under PI & PID control for simultaneous parameter variation p. 73
Real time fault diagnosis for a heat exchanger - a model based approach p. 78
Design of fuzzy observer for a three tank system p. 83
Risk sensitive estimators for inaccurately modelled systems p. 86
Core switch architectures for the agile all-photonic network: performance evaluation with crosstalk p. 92
BER performance degradation due to component crosstalk of an arrayed waveguide grating and FBG-OC based WDM cross-connect p. 97
Minimizing congestion in optical WDM networks for dynamic traffic p. 101
Use of shared buffering and wavelength conversion for contention resolution in an optical packet switch architecture p. 105
Efficient VLSI implementation of embedded zerotree wavelet for picture transform p. 111
H-DBUG: a high-level debugging framework for protocol verification using assertions p. 115
Virtual double-gate operation in conventional SOI CMOS technology p. 119
Novel MEMS electrothermal actuators & its application p. 123
Simulation and real-time implementation of fuzzy logic controller for parallel loaded resonant converter p. 127
Analysis, simulation and performance comparison of A.C. voltage controller fed three wire and four wire connected induction motor drives p. 133
Nine-phase AC-DC converter for vector controlled induction motor drives p. 137
Harmonic current injection for varying rectifier loads p. 143
Reliable reconfiguration of radial systems - an analysis p. 148
Fractal-ANN tool for classification of impulse faults in transformers p. 152
Visualization for power systems operation for economic energy interchange in power pools
Transmission line fault detection using time-frequency analysis
Software architecture selection framework based on quality attributes
Graph definition language for G-SQL
UML sequence diagram based testing using slicing
Space time adaptive processing for DS-CDMA UWB systems
ISM band triangular patch antenna on FR4 substrate with 'U' pattern slots
Policy based authentication system for 4G wireless networks
Design and analysis of PADSR protocol for routing in MANETs
Adaptive core based scalable multicasting networks
A design procedure for micromachined antennas on semiconductor substrates
Non-linear analysis of cardiac autonomic nervous activity using principal dynamic fluctuation analysis
Comparison of feature selection techniques for detection of malignant tumor in brain images
Automatic segmentation and classification of diffused liver diseases using wavelet based texture analysis and neural network
Web based diagnostic classifier system for kidney lesions using image texture parameters
Adaptive neuro fuzzy inference system for extraction off ECG
Gaussian intensity distribution modelling of blood vessels in fundus images
Dynamics performance of carrier and code tracking loops in ultra-tight GPS/INS/PL integration
LDA combination of pitch and MFCC features in speaker recognition
Peak to average power ratio reduction of OFDM signal
Efficient algorithm for removing blocking artifacts in JPEG compressed images
A new pipelined architecture for the DLMS algorithm
Constrained autoregressive (CAR) model
Cryptography using neural networks
Reliable switching architecture for high speed networks
Secured group communication protocol
A novell VLSI architecture for an integrated crypto processor
Transient analysis of multiprocessor systems
Framework for handling security issues in interoperable grid services
Design of hybrid electronic circuit for energy management in automobiles
Development of a simple, low cost, microcontroller based universal interface for ion beam dose measurement
Experience inclusion in Fourier series based iterative learning control for manipulators
An effective guidance scheme for passive tracking using a quantized bearing-only sensor
Nonlinear autopilot and observer design for a surface-to-surface, skid-to-turn missile
Feature extraction for multi source partial discharge pattern recognition
A reliable solution(s) for molecule based unreliable memory devices p. 313
Interactive test-bench synthesis for assertion-based verification p. 317
Design of built in self test asynchronous micropipeline using double edge triggered D flip flop p. 322
Implementation of an asynchronous FFT processor p. 327
Design alternatives for baseband GPS receivers p. 332
A novel fractional sampling offset estimation in an OFDM system p. 336
Classification of stressed speech using Gaussian mixture model p. 342
Exo-atmospheric IR tracking of ballistic objects p. 347
An F-ratio based optimization on noisy data for speaker recognition application p. 352
Adaptive grid solution of risk sensitive estimator problems p. 356
Performance analysis of dictionary based data compression algorithms for high speed networks p. 361
A new approach to coin recognition using neural pattern analysis p. 366
A novel technique for fingerprint feature extraction using fixed size templates p. 371
Interactive fuzzy system using CWM p. 375
Threshold finite state machine for vision based gesture recognition p. 379
Facial expression recognition using neural classifier and fuzzy mapping p. 383
A framework for identification of fuzzy models through particle swarm optimization algorithm p. 388
A genetic algorithm based approach for static virtual topology design in optical networks p. 392
A fluid queue fed by an on-off source p. 396
Analysis of batching policy in view of user reneging in VOD system p. 399
Cost sensitive pushout policy for the buffer management in versatile traffic switch p. 404
Performance analysis for constraint based WDM networks using modified DWP algorithm p. 408
Performance of fixed point analysis for IEEE 802.11 compliant WLAN p. 413
Mixed signal DSP based multi task motion control system using external FPGA structural design p. 419
Particle methods for risk sensitive filtering p. 423
Wire-mesh tomograph for gas-liquid flow measurement p. 427
Characteristic analysis of high order disturbance observer p. 431
Observer design for Lipschitz nonlinear systems with state dependency and nonlinearity distribution p. 437
Fault recovery in discrete-event systems using observer-based supervisors p. 442
Design and implementation of a co-processor for providing data protection in embedded systems p. 446
Design of low power double edge triggered D FF p. 450
A high current gain horizontal current bipolar transistor (HCBT) technology for the BiCMOS integration with FinFETs p. 453
Boundary contour system for dynamic compression and image edge enhancement p. 457
Digital fuzzy logic controller using VHDL p. 463
Scan flip-flop ordering with delay and power minimization during testing p. 467
UC3907 ASIC and TMS320F2407A DSP based control for paralleled buck DC-DC converters p. 472

Root cause analysis of commutator damage in a 130 KW DC recoiler motor drive p. 476

A new push-pull zero voltage switching quasi resonant converter: topology, analysis and experimentation p. 482

Space vector modulation of a voltage fed inverter using artificial neural networks p. 487

Fault detection and remedial strategies for inter-turn short circuit faults in a permanent magnet brushless DC motor p. 492

Stochastic multi objective short term hydrothermal scheduling using particle swarm optimization p. 497

Application of high voltage pulses in the preservation of orange juice p. 502

Performance of UPFC on system behavior under fault conditions p. 505

Improved genetic algorithm approach for multi-objective contingency constrained reactive power planning p. 510

Neural network based control of reduced rating DSTATCOM p. 516

Decentralized biased controllers for load-frequency control interconnected power systems considering governor dead band non-linearity p. 521

Integration of smart card and Gabor filter method based fingerprint matching for faster verification p. 526

Mesh based clustering without stopping criterion p. 530

Image segmentation by histogram adaptive fuzzification p. 535

A new solution to improve the link failure tolerance in mobile ad hoc networks p. 539

Applications of RFID in public transport system to aid the visually challenged p. 543

Continuous localization of mobile robots using systematical error correction and a new computational algorithm p. 545

A novel iterative frequency offset estimation in an OFDM system p. 550

Refinements to minimum interference routing for traffic engineering p. 556

Data security implementation for real time Internet packet traces p. 561

Dynamic routing from one to group of nodes using elitism based GA - novel multi parameter approach p. 565

A study on the effect of varying training set sizes on recognition performance with handwritten Bangla numerals p. 570

Integrating genetic algorithm and fuzzy c-means for anomaly detection p. 575

A new converter topology for switched reluctance p. 580

A single DC-DC converter based multiple output SMPS with fully regulated and isolated outputs p. 585

Conducted noise disparity study in SPWM and HPWM inverters using ICAP software and laboratory corroboration p. 590

A comparative study of shape optimization of SRM using genetic algorithm and simulated annealing p. 596

Simulation based performance analysis of dual supply bi-directional improved power quality AC-DC matrix converter with four quadrant switch realizations p. 600

Spectral analysis of DC-DC buck converter with chaotic dynamics p. 605

Application of wavelet and Fourier transforms for vibration analysis of motor p. 609

Optimal capacitor allocation in radial distribution systems under APDRP p. 614
Distribution network reconfiguration for loss reduction using ant colony system algorithm p. 619
Effect of rail dimensions on rail gun design parameters p. 623
Cluster based congestion management in deregulated electricity market using PSO p. 627
Deregulation of electricity market through power exchange trading hub design with genetic algorithm application p. 631

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.