



**2008 IEEE 25-th Convention of
Electrical and Electronics Engineers
in Israel**
December 3-5, 2008, Eilat

TABLE OF CONTENTS

Exploration of Energy-delay Tradeoffs in Digital Circuit Design	1
<i>Y. Aizik, A. Kolodny</i>	
The Broadcast Approach in Communications Systems	6
<i>A. Steiner, S. Shamai</i>	
Associative Neural Networks for Machine Consciousness: Improving Existing AI Technologies	11
<i>E. Lesser, T. Schaeps, P.O.A. Haikonen, C. Jorgensen</i>	
Voltage Modulation Strategies and Performance Limitations of Multilevel PWM Rectifiers	16
<i>A. Ruderman</i>	
A Hybrid Asymmetric Cascaded Multilevel Inverter Comprising High Resolution and Symmetric Low Resolution Parts	21
<i>A. Ruderman, S. Schlosberg</i>	
ATC Assessment with Transient Stability Constraints.....	26
<i>D. Sarussi, R. Rabinovici</i>	
Developing and Analysis of Power Systems Using PSAT Software	31
<i>D. Sarussi, R. Rabinovici</i>	
Development of the Optical Transfer Function (OTF) for Image Intensified CCD, Particularly with OTF of Image Intensifier Tubes (IIT)	36
<i>N. Gul, M. Efe, V. Larochelle</i>	
A Hybrid Fuzzy-SVM Classifier, Applied to Gene Expression Profiling for Automated Leukaemia Diagnosis	41
<i>M. Perez, D.M. Rubin, L.E. Scott, T. Marwala, W. Stevens</i>	
A Charge Pump Circuit without Gate-oxide Overstress for Standard CMOS Technology and Suitable for Low-Power Applications	46
<i>C.A.M. Cruz, C.A.R. Filho, V.R. Mognon</i>	
Using Integrated Color and Texture for Automatic Hair Detection.....	51
<i>U. Lipowezky, O. Mamo, A. Cohen</i>	
f- Connection: A New Circuit Concept.....	56
<i>E. Gluskin</i>	
Exploring Audiometric Age Related Changes in Mistuned Harmony Detection Using a Cochlear Model	61
<i>A. Yachin, M. Furst</i>	
Numerical Analysis of Tight Focusing and Scattering of Singular Beams.....	66
<i>A. Normatov, B. Spektor, J. Shamir</i>	
Construction of Error-Correcting Codes for Random Networking Coding.....	70
<i>T. Etzion, N. Silberstein</i>	
Power Loading Strategy for Multicarrier System with the Given BER in a Frequency Selective Fading Channel.....	75
<i>L. Tako, L. Goldfeld, V. Lyandres</i>	
DFT Model Errors for Finite Length Observations with Spatially Distributed Sensors.....	80
<i>Y. Isbi, A.J. Weiss</i>	

LUT Cascade-based Implementations of Allocators	85
<i>V. Dvorak, P. Mikusek</i>	
Guidance Laws in Defense Against Missile Attack	90
<i>I. Rusnak</i>	
Robust Pole Placement Technique for STATCOM Controller Design	95
<i>V. Spitsa, A. Alexandrovitz, E. Zeheb</i>	
Edge Impact on Subpixel Target Detection in Hyperspectral Imagery	100
<i>I. Jivin, S.R. Rotman</i>	
Generalized Serial Schedules for Iterative Decoding of LDPC Codes	105
<i>N. Presman, E. Sharon, S. Litsyn</i>	
Performance Estimation for OFDMA Wireless System Operating in a Selective Fading Channel with Partial Interference	110
<i>A. Freedman</i>	
Control Strategy of Hybrid Power Filter Under Disturbed Voltage System Conditions.....	115
<i>J. Skramlik, J. Tlusty, V. Valouch</i>	
The Behaviour of TSR-based SVC and TCR-based SVC Installed in an Infinite Bus System	120
<i>A. Gelen, T. Yalcinoz</i>	
Analysis and Methods for Control of Objects with Quasi-Static Time- Dependent Characteristic- Objects with Elastic and Plastic Static Characteristic	125
<i>L. Gurvich, I. Gurvich</i>	
The Benefit of Speech Enhancement to the Hearing Impaired.....	130
<i>N. Fink, M. Furst, C. Muchnik</i>	
Impact of Linear Power Amplifier Efficiency on Capacity of OFDM Systems with Clipping.....	134
<i>G.R. Tsouri, D. Wulich</i>	
Relatively Inexpensive Terahertz Imaging	137
<i>N.S. Kopeika, A. Abramovich, O. Yadid-Pecht, Y. Yitzhaky, A. Belenky, S. Lineykin, D. Rozban</i>	
Automatic Freckles Detection and Retouching	142
<i>U. Lipowezky, S. Cahen</i>	
Uncertainty Relations and Sparse Decompositions of Analog Signals	147
<i>Y.C. Eldar</i>	
Fast Result Normalization in FP Adder	152
<i>A.I. Grushin, M.L. Remizov</i>	
Adaptive Erasure Decoder for Reed-Solomon Code and its Performance in Rayleigh Fading Channel	157
<i>E. Hadad, L. Goldfeld, V. Lyandres</i>	
On Information Rates of the Fading Wyner Cellular Model Via the Thouless Formula for the Strip.....	162
<i>N. Levy, O. Zeitouni, S. Shamai</i>	
Angular Accuracy Improvement for Industrial Grade Pedestal	167
<i>B. Grinberg, H. Levin, A. Brandes, A. Fischler</i>	
Model Reduction with Guaranteed Stability	172
<i>Y. Dolgin, E. Zeheb</i>	
Bit-error-rate of LDPC Coded QAM in the Presence of a Residual Phase Noise Process and a Non-linear Distortion.....	175
<i>Y. Aviv, I. Rosenhouse</i>	

A Fast Geometric Method for Blind Separation of Sparse Sources.....	180
<i>O. Mebel, Y. Avargel, I. Cohen</i>	
High-frequency Measurements of Three-phase 50 HZ Power Transformers	185
<i>R. Rabinovici, A. Zuckerberger, I. Reichman, S. Bass, M. Schwartzes</i>	
Photonic Digital to Analog Conversion	190
<i>Y. Ehrlichman, O. Amrani, S. Ruschin</i>	
Fast 3D Field Evaluation Using Non-Central Interpolation over Spherical Non-uniform Grids.....	194
<i>Y. Brick, A. Boag</i>	
Image Data Preparation for Intelligent Security Systems	198
<i>S. Sheraizin, S. Itzikowitz</i>	
A Comparison Between Alternative Beamforming Strategies for Interference Cancellation in Noisy and Reverberant Environment.....	203
<i>S. Markovich, S. Gannot, I. Cohen</i>	
Identification of the Relative Transfer Function Between Microphones in Reverberant Environments	208
<i>R. Talmon, I. Cohen, S. Gannot</i>	
On the Maximum Power of Systems Consisting of Multiple Sources.....	213
<i>Y. Levron, D. Shmilovitz</i>	
Slant-path Generalized Atmospheric MTF.....	217
<i>A. Zilberman, N.S. Kopeika</i>	
Reliability Assessment and Performance Based Incentives of Power Distribution Systems	222
<i>K. Yahav, G. Oron, W. Young</i>	
Beamforming for a Spherical-Aperture Microphone	227
<i>M. Agmon, B. Rafaely</i>	
The Effect of Room Parameters on Speaker Verification Using Reverberant Speech	231
<i>N.R. Shabtai, Y. Zigel, B. Rafaely</i>	
Nonlinear Laser Theory and Natural Linewidth in Semiconductor Lasers	236
<i>M.G. Noppe</i>	
On Expressions for Line Form and Natural Linewidth in Semiconductor Lasers.....	241
<i>A.P. Kovalevski, M.G. Noppe</i>	
Modeling Vehicles and Mobile Robots	246
<i>L. Ciobanu, N. Thirer</i>	
On Discretization of the Depth Dimension in Electrical Impedance Tomography Problems	250
<i>M. Dolgin, P.D. Einziger</i>	
Relativistic Invariance of Dispersion-relations and their Associated Wave-operators and Green-functions	255
<i>D. Censor</i>	
Modelling the Effect of the Structure of Polymer Photocells on their Absorption Spectrum	260
<i>R. Shikler</i>	
Base Reliability Analysis for an Universal and Flexible Power Management System	265
<i>M.C. Magro, S. Savio</i>	
Signal Decorrelation by Spatial Smoothing for Spherical Microphone Arrays	270
<i>D. Khaykin, B. Rafaely</i>	

Robust Nonuniformity Correction in Infrared Images Based on Global Motion	275
<i>M. Shehadeh, O. Kuybeda</i>	
Multi Level Multiple Descriptions	280
<i>T.A. Beery, R. Zamir</i>	
Study of Speech Intelligibility in Noisy Enclosures Using Optimal Spherical Beamforming.....	285
<i>Y. Peled, B. Rafaely</i>	
Efficient Sampling of Sparse Wideband Analog Signals	290
<i>M. Mishali, Y.C. Eldar, J.A. Tropp</i>	
A Korner-Marton Approach to Low Complexity Video Encoding	295
<i>M. Shemer, R. Zamir</i>	
System Identification in the Wavelet Domain with Crossband Filters.....	300
<i>E. Cohen, I. Cohen</i>	
Space-time Coding with Increased Diversity	305
<i>A.J. Salomon, O. Amrani</i>	
Temperature and Wavelength Dependent Refractive Index Equation for Stoichiometric Lithium Tantalite	308
<i>I. Dolev, A. Ganany-Padowicz, O. Gayer, A. Arie</i>	
Gaussian Beam Summation Analysis of Half Plane Diffraction: A Full 3D Formulation	313
<i>M. Katsav, E. Heyman</i>	
Modes of Resonators with Conical Reflectors	318
<i>Y.N. Parkhomenko, B. Spektor, J. Shamir</i>	
Superimposed Technique for OFDM/OQAM Based Digital Terrestrial Television Broadcasting	323
<i>A. Golijahani, L. Vangelista, M. Maso</i>	
Spatial Stability in Indoor Radio Propagation Channels	328
<i>D. Porrat, E. Kaminsky, M. Uziel</i>	
Reverberation Compensation for Speaker Verification	333
<i>I. Peer, B. Rafaely, Y. Zigel</i>	
Magnetic Topologies for Distributed and Interleaved Switched Converters.....	338
<i>Y. Beck, D. Medini, S. Singer</i>	
Test Automation of Distributed Embedded Systems Based on Test Object Structure Information.....	343
<i>S. Jovalekic, B. Rist</i>	
Bounds on the Thresholds of Non-binary LDPC Codes	348
<i>O. Levi, D. Burshtein</i>	
Beam-based Time Reversal Imaging	353
<i>T. Heilpern, A. Shlivinski, E. Heyman</i>	
Optical Emission from Organic Light-emitting Diodes	358
<i>A. Epstein, N. Tessler, P.D. Einziger</i>	
Speech Enhancement in Hearing Aids- From Noise Suppression to Rendering of Auditory Scenes	363
<i>R. Martin, G. Enzner</i>	
3D Lightning Strikes Probability Program.....	368
<i>Y. Beck</i>	

Defence of Populated Areas Against Ultra-short-range Ballistic Rockets- Guns? Lasers? Missiles?	373
<i>A. Weinreb</i>	
BIT Manipulation Techniques for LDPC Coding in OFDM.	378
<i>T.E. Salamon, O. Amrani</i>	
Spectral Processor Implemented with Hybrid Free-space and Guided-wave Optics and Active LCOS Modulator.	380
<i>D. Sinefeld, D.M. Marom</i>	
Speech Dereverberation Using Backward Estimation of the Late Reverberant Spectral Variance.	384
<i>E.A.P. Habets, S. Gannot, I. Cohen</i>	
Fast Encapsulating Domain Decomposition Scheme for the Analysis of 2D Large Arbitrarily Shaped Open-ended Cavities.	389
<i>M. Zelig, E. Heyman, A. Boag</i>	
Information Embedding with Reversibel Stegotext	394
<i>O. Sumszyk, Y. Steinberg</i>	
Optimization of a MLP Network Structure for a Real-time PLC Application.	396
<i>I. Topalova</i>	
Unsupervised Zoning of Scientific Articles using Huffman Trees	399
<i>E. Kagan, I. Ben-Gal, N. Sharkov, O. Maimon</i>	
Simultaneous Left Atrium Volume Tracking from Echocardiographic Movies	403
<i>M. Yaacobi, N. Liel-Cohen, H. Guterman</i>	
Incoherent Wideband Communications over Multipath Channels	408
<i>E. Zwecher, D. Porrat</i>	
Detection and Identification of Effluent Gases by Long Wave Infrared (LWIR) Hyperspectral Images	413
<i>L. Sagiv, S.R. Rotman, D.G. Blumberg</i>	
Probabilistic Mobile Robot with Quantum Decision-making	418
<i>E. Kagan, E. Salmona, I. Ben-Gal</i>	
High Performance Ceramic Radome- Implementation of EM Design by Effective EM Simulation	423
<i>Y. Chovez, S. Etin, M. Israel</i>	
Cancelling Known Interference in Multiple Access Channels	428
<i>T. Philosof, R. Zamir, U. Erez, A. Khisti</i>	
Manipulating Light Using Charged Nano-particles Suspended in an Electric Field	433
<i>E. Rosenkrantz, S. Arnon</i>	
Automated Classification of Heat Resistant Steel Structures Based on Neural Networks	437
<i>I. Topalova, A. Mihailov, A. Tzokev</i>	
An Iterative RSSE Equalizer for Suppressing Phase Noise Effects in OFDM Systems	441
<i>G. Kutz, D. Raphaeli, I. Wittenberg</i>	
A Very Compact CPW-to-CPS Balun for UWB Antenna Feeding.	446
<i>A. Vasylchenko, L. Wang, Z. Ma, W. De Raedt, G.A.E. Vandebosch</i>	
Iterative Multiuser Detection in Coded UWB	450
<i>Y.S. Bahar, O. Amrani</i>	

Thyristor Operated Induction Motor and Generator with Stator Connected in Three Different Ways.....	452
<i>D. Baimel, R. Rabinovici, M. Schwartz</i>	
H-infinity Control of a Class of Nonlinear Systems and its Applications to Control of Electronic Circuit with Nonlinear Elements	457
<i>L. Its-haki-Allerhand, U. Shaked</i>	
Pure Segment Selection as Speaker Diarization Post-processing.....	461
<i>O. Ben-Harush, H. Guterman, I. Lapidot</i>	
The Compensating of Medium Parameters Influence on 3D Measurement of Speed and Direction of Turbulent Air Movement	466
<i>I.B. Shirokov, I.V. Serdyuk, A.A. Mukhin</i>	
The Elimination of Error Measurement of Substance Flow Speed by the Accounting of Variation of its Electrophysical Parameters	470
<i>I.B. Shirokov, S.N. Polivkin, Y.B. Gimpilevich, I.V. Serdyuk</i>	
Bayesian Focusing Transformation for Coherent Wideband Array Processing	474
<i>Y. Buchris, I. Cohen, M.A. Doron</i>	
Efficient Decoding of Low Density Lattice Codes	479
<i>Y. Yona, M. Feder</i>	
Stochastic Models of Pitch Jitter and Amplitude Shimmer for Voice Modification	484
<i>D. Ruinskiy, Y. Lavner</i>	
On Using Phase Data Information for Pipeline Leak Location	489
<i>M. Daneti</i>	
Application of the Difference LMIS Method to Robust Stochastic H-infinity Control and Filtering of Distinct Plants.....	494
<i>E. Gershon, U. Shaked</i>	
On Features Ordering for Rapid Object Detection.....	499
<i>S. Cohen, S.E. Shimony, R.I. Brafman</i>	
Detection of Falls at Home Using Floor Vibrations and Sound	504
<i>D. Litvak, I. Gannot, Y. Zigel</i>	
Chain of Coupled Triangular Wave Oscillators in Continuum Mode	509
<i>N. Ben-Hail, R. Rabinovici</i>	
Dual Band Circular Polarized Patch Antenna Using Small Ferrite Disks	513
<i>M. Sigalov, R. Shavit, E.O. Kamenetskii</i>	
Adaptive Filtered-Back-Projection for Computed Tomography	518
<i>J. Shtok, M. Elad, M. Zibulevsky</i>	
Improving the K-SVD Facial Image Compression Using a Linear Deblocking Method	523
<i>O. Bryt, M. Elad</i>	
Algorithms for Signal Separation Exploiting Sparse Representations, with Applications to Texture Image Separation	528
<i>N. Shoham, M. Elad</i>	
Phone-based Speaker Verification with Various Adaptation Configurations	533
<i>Y. Bar-Yosef, Y. Bistriz</i>	
Recursive Blind Minimax Estimation: Improving MSE Over Recursive Least Squares	538
<i>G. Leibovitz, A. Elron, Z. Ben-Haim, Y.C. Eldar</i>	
An Applied Framework for Automatic Inference of Affective States from Speech	543
<i>T.S. Shikler</i>	

Anomaly Detection in Multi-polarimetric Radar Images	.....	548
<i>G. Melamed, S.R. Rotman, D.G. Blumberg, A.J. Weiss</i>		
Amplified-spontaneous-emission Pumped Raman Fiber Laser	.....	553
<i>B. Levit, A. Bekker, V. Smulakovsky, B. Fischer</i>		
Robust Doppler Estimation for Mobile Wireless Communication	.....	556
<i>Y. Nana, T. Philosof</i>		
SAW and FBAR Resonators for GHZ Applications Based on Micromachining and Nanoprocessing of Wide Bandgap Semiconductors	.....	561
<i>A. Muller, G. Konstantinidis, D. Neculoiu, M. Dragoman, A. Dinescu, A. Stavrinidis, D. Vasilache, C. Morosanu</i>		
Direct Position Determination using MIMO Radar	.....	565
<i>O. Bar-Shalom, A.J. Weiss</i>		
Closed-form MMSE Estimator for Denoising Signals Under Sparse Representation Modelling	.....	570
<i>M. Protter, I. Yavneh, M. Elad</i>		
The Use of Optical Waveform Synthesis in Photoacoustic Measurements	.....	575
<i>E. Bergman, A. Sheinfeld, S. Gilead, A. Eyal</i>		
Photoacoustic Spectroscopy as a Non-invasive Method for In-vivo Protein Detection and Identification	.....	579
<i>A. Sheinfeld, E. Bergman, S. Gilead, A. Eyal</i>		
Relativistic Plane-wave Decomposition of Electromagnetic Waves	.....	584
<i>T. Danov, T. Melamed</i>		
Magnetoelectric Effect for Novel Microwave Device Applications	.....	589
<i>E.O. Kamenetskii, M. Sigalov, R. Shavit</i>		
Bearing Data Association in the Presence of Clutter Using a Fictitious Antenna Array	.....	594
<i>M. Oispuu, B. Demissie, P. Willett</i>		
Balancing and Harmonic Analysis of Flying Capacitor Multilevel Converters	.....	599
<i>S. Thielemans, T. Vyncke, J. Melkebeek</i>		
Lens-motor Noise Suppression for Digital Cameras	.....	604
<i>A. Barazany, R. Levy, Y. Avargel</i>		
A Charge Pump Without Overstress for Standard CMOS Process with Improved Current Driver Capability	.....	608
<i>C.A.M. Cruz, C.A.R. Filho, J.E.S. Lima</i>		
On the Entropy of the Sum and of the Difference of Independent Random Variables	.....	613
<i>A. Lapidot, G. Pete</i>		
MMSE-based Speech Enhancement Using the Harmonic Model	.....	616
<i>Y. Stark, J. Tabrikian</i>		
A Polarimetric Sensor Array with 10 Segments of 10m Each	.....	621
<i>O. Weinstein, A. Isseroff, A. Eyal</i>		
On-the-Fly Software Replacement in Faulty Remote Robots	.....	625
<i>I. Exman, N. Cohen</i>		
Multipath Channels of Unbounded Capacity	.....	630
<i>T. Koch, A. Lapidot</i>		
Metamaterial Dispersion and Loss in a Double Negative Nonradiative Dielectric Waveguide	.....	635
<i>A.L. Topa, C.R. Paiva, A.M. Barbosa</i>		

Frequency Performance of Plasma Wave Devices for THZ Applications and the Role of Fringing Effects	640
<i>I. Khmyrova, T. Nishimura, N. Magome, T. Suemitsu, T. Otsuji</i>	
The Poisson Channel at Low Input Powers	644
<i>A. Lapidoth, L. Wang, J.H. Shapiro, V. Venkatesan</i>	
Development of Electric Power System from the Point of View of Safety	649
<i>J. Tchorzewski</i>	
Subspace Approach to Direction Finding of Rapidly Moving Sources with an Uniform Linear Array.....	654
<i>B. Demissie, P. Willett</i>	
Sequential Universal Compression for Binary Sequences with Constrained Distributions	659
<i>G.I. Shamir, T.J. Tjalkens, F.M.J. Willems</i>	
Analytical Treatment of Two-dimensional Photonic Crystals with Rectangular Geometry	664
<i>I. Nusinsky, A.A. Hardy</i>	
A Phonetic Vocoder with Scalable Adaptation to Speaker Codebooks	669
<i>I. Halaly, Y. Bistrizt</i>	
Analysis and Design of Large-sized 2D Photonic Crystal Devices	674
<i>V. Shteeeman, I. Nusinsky, A.A. Hardy</i>	
Gas Switching of Unidirectional Erbium-doped Waveguide Ring Lasers	679
<i>I. Mozjerin, A. Hardy, S. Ruschin</i>	
Digital Subthreshold Logic Design- Motivation and Challenges	682
<i>S. Fisher, A. Teman, D. Vaysman, A. Gertsman, O. Yadid-Pecht, A. Fish</i>	
A Logistic Regression Method for Cost Sensitive Active Learning.....	687
<i>L. Naamani, L. Rokach, A. Shmilovici</i>	
Detecting Highlights and Notes on Printed Text	691
<i>R. Sulimarski, G. Gur-Arye, A. Adler, Y. Navon</i>	
Radio Astronomical Image Formation Using Sparse Reconstruction Techniques.....	696
<i>R. Levanda, A. Leshem</i>	
Model-based Rate Allocation in Distributed Video Coding Systems.....	701
<i>Y. Prizment, D. Malah</i>	
An Overview of Multi-mode Multi-user Adaptation and Scheduling Techniques in Mimo-based Fourth-generation Wireless Systems	706
<i>A. Reichman</i>	
On the Optimality of Multilevel Coding and Multistage Decoding	711
<i>A. Ingber, M. Feder</i>	
Device Design Tradeoffs for 55V LDMOS Driver Embedded in 0.18 Micron Platform	716
<i>N. Klein, S. Levin, G. Fleishon, S. Levy, A. Eyal, S. Shapira</i>	
Polarized-Mimo Capacity Analysis in Street-canyon Using 3D Ray-tracing Model.....	721
<i>D. Shoshan, O. Amrani</i>	
A New Lower Bound on the Mean-square Error of Biased Estimators	725
<i>K. Todros, J. Tabrikian</i>	
A General Class of Lower Bounds on the Probability of Error in Multiple Hypothesis Testing	730
<i>T. Routtenberg, J. Tabrikian</i>	

Bounds on the Capacity of OFDM Under Spread Frequency Selective Fading Channels	735
<i>I. Bergel, S. Benedetto</i>	
Analysis of Speech Signals Among Obstructive Sleep Apnea Patients.....	740
<i>Y. Zigel, A. Tarasiuk, E. Goldshtain</i>	
Hysteresis Control of Power Factor Correction with a New Approach of Sampling Technique.....	745
<i>A. Karaarslan</i>	
Error Exponents for Optimum Decoding of the Degraded Broadcast Channel Using Moments of Type Class Enumerators	750
<i>Y. Kaspi, N. Merhav</i>	
Development of an N-type Demos on a 0.6-μm Platform for 18V Analog & Digital Applications	755
<i>Y. Mayzels, S. Levin, S. Regev, H. Khmairy, R. Drori, S. Shapira</i>	
Rematch and Forward: Joint Source/Channel Coding for Communications.....	759
<i>Y. Kochman, A. Khina, U. Erez, R. Zamir</i>	
The Second Law of Thermodynamics for Communication Channels	764
<i>O. Shental, I. Kanter</i>	
Soft-input Hard-output Based Decoder for Turbo Codes	769
<i>M. Kerner, O. Amrani</i>	
Representative Contingency Identification Using Data Mining.....	772
<i>L. Sigrist, I. Egido, E.F. Sanchez-Ubeda, L. Rouco</i>	
Rate-distortion with Common Rate-limited Side Information to the Encoder and Decoder	777
<i>H. Permuter, Y. Steinberg, T. Weissman</i>	
A Modified Invariance Principle and Gain Convergence in Adaptive Control.....	780
<i>I. Barkana</i>	
Power Efficiency Analysis of Envelope Elimination and Restoration Technique in Different Topologies	785
<i>M. Alon, S. Singer, S.J. Spiegel</i>	
Improving the System Capacity of a Cellular Network with Partial Power Equalization	790
<i>N. Marina, O. Tirkkonen</i>	
An Electromagnetic Model for the Lundell Alternator with Switched-mode Rectifier	795
<i>D. Stoia, M. Cernat, R. Rabinovici</i>	
Automatic Parameter Setting for Iterative Shrinkage Methods.....	800
<i>R. Giryes, M. Elad, Y.C. Eldar</i>	
A New THZ FEL Development Project	805
<i>E. Dyunin, Y. Lurie, Y. Pinhasi, A. Gover, H. Marks</i>	
H-infinity Output Feedback Control for Discrete-time Nonlinear Stochastic Systems	810
<i>N. Berman, U. Shaked</i>	
A Modulo-lattice Transformation for Multiple-access Channels	816
<i>U. Erez, R. Zamir</i>	
Multiplication Based Synthesis of Grid Tied Inverters	821
<i>S. Ozeri, S. Singer, D. Shmilovitz</i>	

Author Index