Ensemble-Kalman-Filter-Based Power System Harmonic Estimation ..................... P. K. Ray and B. Subudhi  

Uncertainty Analysis, Accuracy, Precision and Parameter Estimation
Noise Power Estimation by the Three-Parameter and Four-Parameter Sine-Fit Algorithms ....................... D. Belega, D. Petri, and D. Dallet  
Uncertainties of Multiport VNA S-Parameter Measurements Applying the GSOLT Calibration Method ..................... W. Zhao, X. Yang, J. Xiao, Q. H. Abbasi, H. Qin, and H. Ren

Built-in Self-Test, Design-for-Testing, Fault Diagnosis and Fault-Tolerance
Characterizing the Capacitive Crosstalk in SRAM Cells Using Negative Bit-Line Voltage Stress ............................................ J. Bae, S. Baeg, and S. Park

Measurement of Materials and Applications
A New Approach for Characterizing the Energetic Magnetic Behavior of Fe-9Cr Steel Under Transient Conditions ................................................. M. Marracci, B. Tellini, and I. A. Maione

Medical and Biomedical Instrumentation and Applications
A Capacitive Intrabody Communication Channel from 100 kHz to 100 MHz ........ Z. Luc¸ev, I. Krois, and M. Cifrek  
A New Technique to Detect Ocular Pathologies Based on Electrical Measurement Implemented on Programmable Logic ................................ M. I. Bellotti, D. Dellavalle, and F. J. Bonetto

Measurement Techniques
Measurement-While-Drilling Instrument Based on Predigested Inertial Measurement Unit .................. Z. Yanshun, W. Shouwei, and F. Jiancheng  
A Time-Domain Least Squares Approach to Electrochemical Impedance Spectroscopy ................................................. P. A. Lindahl, M. A. Cornachione, and S. R. Shaw  
A Multifunction Tactile and Proximity Sensing Method by Optical and Electrical Simultaneous Measurement ................................ S. Tsuji, A. Kimoto, and E. Takahashi  
Mass Imbalance Measurement of Incomplete Spherical Superconducting Rotor With Air Suspension .......................... F. Gao, H. Wang, Q. Wang, C. Cui, and X. Hu

Nondestructive Evaluation and Remote Sensing
Theoretical and Experimental Evaluation of Rotational Magnetic Induction Tomography, ....... H.-Y. Wei and M. Soleimani

Optical Instrumentation, Measurement and Systems
Optical Performance Evaluation of Oil Spill Detection Methods: Thickness and Extent ................................................. A. Massaro, A. Lay-Ekuakille, D. Caratelli, I. Palamara, and F. C. Morabito

RF, Microwave, Millimeter Wave and Tera-Hertz
Sparse Tomographic Inverse Scattering Approach for Through-the-Wall Radar Imaging .......................... F. Soldovieri, R. Solimene, and F. Ahmad

Sensors, Sensor Fusion and Transducers
Failure Detection, Isolation, and Recovery of Multifunctional Self-Validating Sensor ..................... Z. Shen and Q. Wang  

Signals, Systems and System Identification
A Particle-Swarm-Optimization-Based Decentralized Nonlinear Active Noise Control System ........................ N. V. George and G. Panda  
Detection and Quantification of the Influence of Time Variation in Frequency Response Function Measurements Using Arbitrary Excitations .......................... R. Pintelon, E. Louarroudi, and J. Lataire