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Anonymity, Unlinkability and Unobservability in Mobile Ad Hoc Networks 1880
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Identification and Feature Extraction of Moving Vehicles in LabVIEW 1885
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A New Adaptive Method to Optimize SCTP during Vertical Handover in UMTS/WLAN Integrated Networks 1890
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Efficient Implementation of AES Algorithm on FPGA 1895
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Self-Organization in Femtocells: A Game Theoretic Approach to Mitigate the Interference and Enhance the Macrocell Performance 1900
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Low Power and High Performance Achievement Using Constant Delay Logic Style 1906
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Energy Efficient Zigbee Cluster-Tree Wireless Sensor Network Using Modified Distributed Algorithm 1912
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An Efficient Framework for Network Code Based Content Distribution in P2P Network 1917
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A Novel Dual-band E and T-Shaped Planar Inverted Antenna for WLAN Applications 1922
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Singer Identification using Clustering Algorithm 1927
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Raga Identification using Clustering Algorithm 1932
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Performance analysis of proposed mobile autonomous agent for detection of malicious node and protecting against attacks in MANET 1937
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Design of CPW Fed Monopole Microstrip Patch Antenna for Wi-Fi Application 1942
S.Chidambara Krishnan and S.A.Arunmozhi

Colour Image Encryption Based on Cross-coupled Chaotic Map and Fractional Order Chaotic Systems 1947
Pritam Paral, Tanmoy Dasgupta and Samar Bhattacharya

Quasi-Orthogonal Space-Time Block Codes Based on Circulant Matrix for eight transmit antennas 1953
Satyanarayana Murthy Nimmagadda, Sri Gowri Sajja and Prabhakara Rao Bhima

High Density Impulse Noise Removal Using BDND Filtering Algorithm 1958
GophikaThanakumar, S. Murugappriya and G.R.Suresh

Landsat Image Compression Using Lifting Scheme 1963
L.Loraina Maria Paul Shoba, V.Mohan and Y.Venkataramani

An Ultra Low Power 8 Bit SAR ADC Suitable for Wireless Medical Applications 1969
Babita Diana K and D. Jackuline Moni

Design of High Throughput and Area Efficient Advanced Encryption System Core 1974
Abhilasha Naidu, A.Y.Deshmukh and Vipin Bhure

Energy Efficient and Reliable Clustering Algorithms HEED and ADCP of Wireless Sensor Networks: A Comparative Study 1979
vjay M. Galshetwar and Amutha Jeyakumar

Spontaneous Emotion Recognition for Marathi Spoken Words 1984
Vaibhav V.Kamble, Bharatratna P.Gaikwad, Deepak M.Rana

Reconfigurable FIR Filter Using Distributed Arithmetic Residue Number System Algorithm Based on Thermometer Coding 1991
S. Jayashi and P. Saranya