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Abstracts

Sl.No.	Title of the paper	Abstract
01	Human Unconscious Information Processing: The Implicit Preference Can Be Revealed By The Analysis Of Brain Electric Signals	Alexander Ya Kaplan designed a research to explore the possibility of color implicit preference revealing objectively by event – related potentials (ERP) method . He concludes that there is individual unconscious preferences of certain color perception which can be viewed by P300 index in free attended conditions and the preferences are based on an endogenous form of episodic memory update.
02	Performance Analysis Of Matched And Post Compression Filters In The Presence Of AWGN	K. Sudhakar and K. Raja Rajeswari carried out a study on Signal Performance in the presense of Additive White Gaussian Noise (AWGN). PSLR and ISLR are used as scale factors to determine goodness of signal in the presense of noise.
03	Crosstalk Aware Repeater Insertion For Coupled VLSI Interconnects	B. K. Kaushik shows that repeater insertion reduces not only the propagation delay but also crosstalk levels for coupled lines.Related to that he talks about Power Delay Crosstalk Product (PDCP) as an efficient technique to insert repeater in coupled interconnects.
04	On The Amount Of Space Associated With Condensed Mass / Energy: Universal Physical Law	Garimella Rama Murthy, pops up with interesting questions related to space generation from initial singularity. He concludes reflecting theories related to space – Energy relationship
05	Neural Network Model for Seizure Activities of Brain (A Chaotic Model of Generation)	S. G. Hiremath proposes a simple methodology to construct an iterative neural network which mimics a given chaotic time series.A model with simple neuro dynamics was able to reproduce many characteristics of the epileptic seizure
06	Analysis Of CIS Processor Design Parameters In Cochlear Implant Devices	Deafness is due to loss of hair cell attached to the basilar membrane in cochlea.It can be cured through cochlear implant that bypasses the normal hearing mechanism and electrically stimulating the auditory neurons directly..Analog and pulsatile are the two basic types of stimulation techniques and this paper mainly analyze the continous interleaved sampling processor using pulsatile stimulation.
07	BDD-based Synthesis of Logic Functions Using Adiabatic Multiplexers	This paper shows how a BDD can be directly employed to design circuits with dual-rail adiabatic MUX blocks. The method yields around 22% reduction in the number of MUX blocks for several benchmark circuits
08	Performance Of DQPSK Using Orthogonal Frequency Division Multiplexing (OFDM) Over Rayleigh And Rician Channel	The paper proposes approximate methods for deriving Bit Error Rate in DQPSK - OFDM systems over Rayleigh and Rician fading channels. It is observed that there is a decrease in the probability of error in Rayleigh and Rician channels using OFDM technique compared to Rayleigh and Rician channel without OFDM technique.
09	Modeling Of Collision Avoidance Processes	This paper deals with Autonomous Mobile Robots (AMRs) which are in general expected to cope up with static and moving obstacles.. Two basic approaches are currently in use for fixing the path of an AMR, First in an known environment, and second , in an unknown environment purely based on data acquired by the sensors of the robot.
10	A Comparative Analysis of Fourth Order and Complex PDEs for Noise Removal	Jeny Rajan and M. R. Kaimal conducted a comparative analysis of fourth order Partial Differential Equations (PDEs) and Complex PDEs for noise removal .The motive behind this analysis is to study the ability of both PDEs to remove noise by keeping the maximum image information.
11	Some Aspects Of Modelling And Simulation For The Recognition Of Speech And Speaker Of Bengali Language Using Proposed GSAMTSS Algorithm	The authors have proposed an efficient algorithm called GSAMTSS (Genetic Search and Associative Memory Technique for Speech and the Speaker) for the recognition of Bengali Language. The practical implementation has successfully progressed towards bridging the gap between Human and Computer.

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| 12 | An Efficient and Fault Tolerant Aggregation Scheme for Distributed Sensor Networks using Modified Z-score Method | In-Network Data Aggregation is usually warranted for distributed wireless sensor networks, owing to <i>reliability</i> and <i>energy efficiency</i> reasons. The availability of constrained resources and the presence of faulty nodes make designing mechanisms for information aggregation in large sensor networks particularly challenging. The author L. S. Jayashree proposes here a much better accurate target detection than classical techniques. |
| 13 | Voice Print Identification: A Secure Speaker Verification Algorithm | E. Chandra presents a secure speaker verification algorithm. The research suggests an efficient mechanism for acquiring secure audio signal acquisition through input signal processing and process the audio signal for verification. |
| 14 | DDoS Detection in Wireless Network using OMNET++ | The Authors present an overview for different statistical mechanisms detecting a DDoS attack on a wireless node. It is proposed with a technique to ensure detection of the DDoS by using trust level on the packets transmitted. The implementation of the proposed techniques is also presented in this paper. |
| 15 | Symbolic Computing Normal Algorithms Lecture Series-2 | E. G. Rajan in this Second series briefs up the importance of algorithms in our studies and its application in computational requirements. |