

Preface

The IDES is dedicated for global promotion of research and development activities in the fields of science, medical, engineering and management through its multiple arms of associate networks. The most vibrant of these networks is ACEECom which is endeavoring to enhance R&D activities in Computer Science, Information Technology, Electrical Engineering, Communication Engineering, and other allied areas among the researchers from the academic institutions and industries. It provides platforms for the academicians, students and industry experts to exchange their innovative ideas and expertise in these broad fields of knowledge through international conferences worldwide. This enables the authors to publish their research works in the proceedings brought out by the leading international publishing houses leading to enhancement of their academic credibility and growth. The **4th International Conference on Control System and Power Electronics (CSPE 2015)** in Bangalore, India during August 01, 2015 is such a platform for the researchers to share their expertise and experiences and enrich their knowledgebase and academics. The primary goal of this International Conference is to promote research and developmental activities in Control and Instrumentation, Communication system, Power Electronics and Power Engineering, vis-a-vis interchange of scientific information among the researchers, developers, engineers, students, and practitioners.

Like any other ACEECom conference, there has been a very good response in submission of research papers from India and abroad. We are thankful to all the authors for supporting us with their positive responses. However, we had to limit the number of accepted papers through stringent peer review process to maintain the quality and standard of the conference. We are extremely grateful to the expert reviewers who did excellent job of reviewing the papers meticulously within the time frame.

We have received 125 papers and could publish only 14 papers in the proceedings after peer review and registration processes. Most of the accepted papers are application and result oriented. The proceedings contain papers on induction motor drive control circuits covering various topics such as fuzzy logic based PV cell fed multi level/boost inverter and THD of a diode clamped multilevel

inverter. Other control and electrical circuits based papers include fuzzy logic based converter for torque-speed characteristics of electric vehicle, sensor-less control of double fed induction machine, differential protection of three phase transformer, load simulator with comparative analysis using PID & QFT, SRM drive for industrial applications and leakage reduction of benchmark circuits. Electronics design and communication engineering based papers cover topics including voltage level and modulation index with high power factor correction capabilities, speech signal recognition and processing with prosodic features extraction technique, DSP-FPGA based controlled braking method, biometric-based smart Id-card and harmonic pollution calculation for distribution systems. Network security based papers include secret sharing for data or password, secure data management based on linear cryptanalysis and cryptographic algorithm using genetic algorithm. Papers on web based applications covers diversified areas such as personalized e-news recommender, isolation of hate and violence videos in social media, websites content mining model and hardware distribution algorithm as a web search engine. The proceedings also contain papers on software defined radio network controllers, neural network, cloud computing, ozone sensing using micro-cantilevers based micro-sensor, network topology and mathematical papers on probability density function and remote procedure call calculus.

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