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tunneling induced shift of ATT phase delay on millimeter-wave properties of DDR IMPATTs-part I: Theoretical modeling; Influence of band-to-band tunneling induced shift of ATT phase delay on millimeter-wave properties of DDR IMPATTs-part II: Simulation resuls Influence of band-to-band tunneling induced shift of ATT phase delay on millimeter-wave properties of DDR IMPATTs-part III: Calculation of shift of ATT phase delay due to tunnelingEffect of gate voltage and structural parameters on the Subthreshold Swing and the DIBL of Si-SiO2 GAA quantum wire transistor; 50 Hz cascaded twin-tee notch filter for removal of power line interference from human electrocardiogram-part I: Circuit design; Research on the 50 Hz cascaded twin-tee notch filter for the removal of power line interference from human electrocardiogram-part II: Simulation study Digital Phase Lock Loop based on Discrete Energy Separation AlgorithmVibrational signal analysis for bearing fault detection in mechanical systems; Differential Biogeography Based Optimization applied to Load Frequency Control problem; Wide beam microstrip patches with grounded E-shaped edges to improve the polarization purity; Smooth sliding mode control of a nonlinear CSTR using an inverse hyperbolic function-based law; A unified FDTD approach in electromagnetics metamaterials; Development of a low-cost field detector unit for safety of operating personnel in Low Tension line Congestion control in Cognitive Radio networks using fractional order rate reaching law based sliding modesThe dynamic compensation of the reactive power for the integration of wind power in a weak distribution network; The Oppositional Chemical Reaction Optimization algorithm for the optimal tuning of the Power System Stabilizer; Neural network based multi objective optimization-a new algorithm; Available Transfer Capacity evaluation through BBO and GWO algorithms; Optimal location of capacitor in radial distribution network using Chemical Reaction Optimization algorithm
Application of Improved Particle Swarm Optimization technique for thinning of Elliptical Array antenna

Sommario/riassunto

The 3rd International Conference on Foundations and Frontiers in Computer, Communication and Electrical Engineering is a notable event which brings together academia, researchers, engineers and students in the fields of Electronics and Communication, Computer and Electrical Engineering making the conference a perfect platform to share experience, foster collaborations across industry and academia, and evaluate emerging technologies across the globe. The conference is technically co-sponsored by IEEE Kolkata Section along with several IEEE chapters, Kolkata Section such as Electron Devices Society, Power and Energy Society, Dielectrics and Electrical Insulation Society, Computer Society, and in association with CSIR-CEERI, Pilani, Rajasthan. The scope of the conference covers some broad areas of interest (but not limited to) such as Satellite and Mobile Communication Systems, Radar, Antennas, High Power Microwave Systems (HPMS), Electronic Warfare, Information Warfare, UWB systems, Microwave and Optical Communications, Microwave and Millimetre-Wave Tubes, Photonics, Plasma Devices, Missile Tracking and Guided systems, High voltage engineering, Electrical Machines, Power Systems, Control Systems, Non-Conventional Energy, Power Electronics and Drives, Machine Learning and Artificial Intelligence, Networking, Image Processing, Soft Computing, Cloud Computing, Data Mining & Data warehousing, etc.