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| **Sr. No.** | **Name** | **Topic** |
|  | S. P. Singh | 1) Reactive Power Control in Smart Grid  2) Fault analysis using wide area measurement. |
|  | D. N. Vishwakarma | 1) Intelligent Protection of Micro-Grid system  2) Intelligent Protection of series compensated Transmission Lines  3) Intelligent Protection of Induction Motors, Power Transformer or Synchronous Generators. |
|  | S. K. Nagar | 1) Controller design for moving cart  2) magnetic levitation intelligent control  3) Discrete time State feedback controller design  4) Discrete Event Systems |
|  | R. K. Srivastava | 1) High Frequency testing of Induction Motor  2) Operation of axial flux BLDC motor  3) Double frequency response of axial flux induction motor |
|  | R. K. Mishra | 1) Distribution system feeder phase balancing using conventional optimization techniques.  2). Distribution system three phase load flow  3) Distribution system state estimation |
|  | R. Mahanty | 1) Power quality  2) Reactive power compensation  3) Active power filter  4) DC-DC converter  5) UPFC and UPQC |
|  | D. Singh | 1) Design and fabrication of interfacing circuit of R-Pi and Aurdino  2) Load forecasting and Price Forecasting  3) Image processing solution for distribution system monitoring  4) Optimization in per system using GAMS and conventional optimization methods |
|  | M. K.Verma | 1) Voltage Stability Studies  2) Power System Dynamics  3) Security Enhancement of Power Systems  4) Application of FACTS controllers  5) Power System Operation and Control |
|  | R. K. Saket | 1) Wind Energy Conversion System  2) Power Systems Reliability |
|  | Kalpana Chaudhary | 1) Design and development of improved rectenna for space based photovoltaic conversion.  2) Development of converter and controller for permanent magnet brushless DC Motor drive for air conditioning application.  3) FEM analysis of dual stator based switched reluctance motor and investigating the possibilities of its torque ripple minimization for electric vehicle application.  4) Study, design and development of fuel cell and PV based hybrid electric power generation system.  5) Design and development of forward converter. |
|  | S. K. Singh | 1) Matrix converter  2) Permanent magnet synchronous motor drive  3) Dual Stator Permanent magnet synchronous generator |
|  | R. K. Singh | 1) Design of Power processor for Power management application.  2) Power Electronics interface for EV/HEV. |
|  | V. N. Lal | 2) Grid integrated PV system  1) Solar Power Forecasting |
|  | J C Pandey | 1) Space charge analysis in polymer  2) Numerical modeling of charge transport phenomenon in polymer  3) Condition monitoring and diagnostics of electrical insulation system  4) Numerical modelling of Electrostatic Force Microscopy |
|  | Sabdeep Ghosh | 1) Control of cooperative mobile robots  2) Consensus theory for multi-agent formation |
|  | Shyam Kamal | 1) Robustness of nonlinear PI control and its application  2) Modelling and Control of Autonomous Underwater Vehicle |