Santanu K. Mishra  
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List of Publications

Transactions and Journals:


National Journal:

Conference:
1. Santanu Mishra, Steve Zhou, Wenkang Huang, and George Schuellein, “Design of redundant paralleled multiphase VRM system with improved efficiency and dynamic


44. Abhishek Maji, Soumya S. Nag, and Santanu Mishra, “A Universal-Phase Rectifier
Architecture for Rural Telecom Exchanges in Developing Countries,” in IEEE-Industry
Application Society Annual Meeting 2015, Dallas, TX. (Conference Prize paper Award,
3rd Prize)
45. Soumya S. Nag and Santanu Mishra, “Coupled Inductor Based Current-Fed DC-DC
Bridge Converters,” accepted in IEEE- Industry Application Society Annual Meeting
2015, Dallas, TX.
(IECON), pp. 1645 - 1650 Yokohama, Japan.
47. Kapil Jha, Santanu Mishra, and Avinash Joshi, “Boost-based Amplifier for Power-
Hardware-in-the-loop Simulations of Utility-Tied DG,” in IEEE Ind. Elect. Society
Time-division multiplexed Multi-port Power Transfer for nano grid applications,”
49. Soumya Shubhra Nag and Santanu Mishra, “Synthesis of Buck Converter Based Current
Sources,” accepted in IEEE-Energy Conversion Congress and Exposition (ECCE) 2016,
Milwaukee, WI.
50. Anil Gambhir and Santanu Mishra “Low Frequency Current Ripple Reduction of a
51. Rajat Channappanavar and Santanu Mishra, “A novel current estimation technique for
digital controlled switching converters operating in CCM and DCM ,” in IEEE-ECCE
2017.
54. Soumya Shubhra Nag, Suman Mandal, Santanu Mishra, “Solar PV Based DC Power
Supply for Rural Homes with Analog, Multiplier-less MPPT Controller,” in IEEE-
IECON, Beijing, 2017.
56. Rajat Channappanavar and Santanu Mishra, “A novel Bidirectional current sensor for
digital controlled DC-DC converters,” in IEEE APEC 2018, San Antonio, TX.
57. Rajat Channappanavar and Santanu Mishra, “Impact of Non-Linear Commutation Delay
on the Performance of Inductor Current Estimation Techniques,” in IEEE-Energy
Conversion Congress and Exposition (ECCE) 2018, Portland, OR.
Digital Controller Implementation for DC-DC Converters,” in IEEE-Energy Conversion
Congress and Exposition (ECCE) 2018, Portland, OR.
59. Anil Gambhir and Santanu Mishra, “Variable duty cycle approach to improve CCM
Boundary range of Current-fed Switched Inverter with Modified PWM scheme,” in IEEE-Energy Conversion Congress and Exposition (ECCE) 2018, Portland, OR.