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Thursday 18th January 2018

ICETEST2018- PICC2018 Plenary & Keynote Talks

Venue: Eastern Amphi

Time	Resource Person	Affiliation	Topic
11.30 - 12.30 (ICETEST Plenary)	Dr. Jian Sun	Department of Electrical, Computer, and Systems Engineering & Director, New York State Center for Future Energy Systems Rensselaer Polytechnic Institute Troy, NY, USA	Power Electronics for Renewable Energy and Power Systems: Opportunities and Challenges
13.30 - 14.30 (PICC2018 Keynote)	Dr. Akshay K Rathore	Electrical and Computer Engineering Concordia University, Canada	Recent Progress in Current-fed Power Converters for High Voltage Gain Applications

Session S11 : Electrical Power Systems

Venue: EE01 Maxwell Hall

Thursday 18th January 2018 14:30 - 15:45

Session Chair: Dr. Jasmin E A, GEC Thrissur

Time	Title	Theme	Presenter	Presenter affiliation
14:30 - 14:45	Paper 124: Implementation of Crow Search Algorithm for Optimal Allocation of DG and DSTATCOM in Practical Distribution System 1	Electrical Power Systems	Surajit Sannigrahi	NIT, Durgapur
14:45 - 15:00	Paper 226: A Novel Maximum Power Point Tracking Method based on Particle Swarm Optimization combined with One Cycle Control 7	Renewable energy sources - Grid integration and Stand alone operation	Anoop K	GEC, Thrissur
15:00- 15:15	Paper 230: Analytical Design of Static VAr Compensator-Based Subsynchronous Damping Controller 13	Electrical Power Systems	Shashidhara Kotian	BITS Pilani Birla Goa Campus
15:15 - 15:30	Paper 289: Mitigation of Inter Area Oscillations in a two area system using PSS and STATCOM 19	Electrical Power Systems	Keerthy Pradeep	Government Engineering College, Thrissur
15:30 - 15:45	Paper 331: Single and Multi Switch Fault Tolerant Topology of Multi Level Inverter 24	Electrical Power Systems	Lalit Kumar	NIT, Raipur

Session S12 : Renewable energy sources - Grid integration and Stand alone operation**Venue: EE03 Electrical Block****Thursday 18th January 2018 14:30 - 15:45****Session Chair: Dr. Arun Rahul, IIT Palghat**

Time	Title	Theme	Presenter	Presenter affiliation
14:30 - 14:45	Paper 109: An Energy Management Scheme for Grid Connected EVs Charging Stations 30	Renewable energy sources - Grid integration and Stand alone operation	Rohit Deshmukh	VNIT, Nagpur
14:45 - 15:00	Paper 117: Combined Approach Based on ACO with MTSP for Optimal Internal Electrical System Design of Large Offshore Wind Farm 36	Soft Computing and Optimization Techniques for Power Electronics/Power Systems	Ramu Srikakulapu	NITK, Surathkal
15:00 - 15:15	Paper 120: Technical aspects involved in the practical implementation of Grid tied solar inverter 42	Renewable energy sources - Grid integration and Stand alone operation	Lekshmi K.R	CDAC-T
15:15 - 15:30	Paper 134: Experimental Investigation of the Effectiveness of the LC filter in PV fed Induction Motor Water Pumping Systems with different type of Inductors 48	Renewable energy sources - Grid integration and Stand alone operation	Venkatesh Perumal	NITK
15:30 - 15:45	Paper 143: Real and reactive power control of solar grid-tie inverter under distorted grid conditions 54	Renewable energy sources - Grid integration and Stand alone operation	Venkatesh Perumal	NITK

Session S13 : Electric Machines and Drives
Venue: Eastern Amphi

Thursday 18th January 2018 14:30 - 15:45

Session Chair: Dr. Akshay K Rathore, Concordia, Canada

Time	Title	Theme	Presenter	Presenter affiliation
14:30 - 14:45	Paper 77: Current Error Boundary Analysis of Constant Switching Frequency Voltage Controlled Three Level VSI Fed IM Drive 60	Electric Machines and Drives	Srikar Krishnatheeram	NIT, Calicut
14:45 - 15:00	Paper 149: Generation of multilevel SVPWM using a 3D triangular coordinate system 66	Electric Machines and Drives	Anish Gopinath	VSSC, ISRO, Trivandrum
15:00 - 15:15	Paper 157: Simulation and Hardware Implementation of PMSM Driven Solar Water Pumping System 72	Electric Machines and Drives	Shadab Murshid	IIT, Delhi
15:15 - 15:30	Paper 172: Performance analysis of feedback controller design for induction motor soft-starting using bio-inspired algorithms 78	Electric Machines and Drives	Rufzal T A	National Institute of Technology, Tiruchirappalli
15:30 - 15:45	Paper 192: Model Predictive Field Oriented Speed Control of Brushless Doubly-Fed Reluctance Motor Drive 84	Electric Machines and Drives	Karuna Kiran	Indian Institute of Technology (Indian School of Mines), Dhanbad

Session S15 : Power Electronics and converters**Venue: EE01 Maxwell Hall****Thursday 18th January 2018 16:00 - 15:15****Session Chair: Dr. Nimesh Vamanan, Electrohms Private Ltd., Bangalore**

Time	Title	Theme	Presenter	Presenter affiliation
16:00 - 16:15	Paper 29: Virtual Synchronous Generator And Its Comparison To Droop Control In Microgrids 90	Power Electronics and converters	Vinu Thomas	NIT, Calicut
16:15 - 16:30	Paper 126: A Detailed Model of Z-Source Converter Considering Parasitic Parameters 94	Power Electronics and converters	Debashisha Jena	NITK, Surathkal
16:30 - 16:45	Paper 140: Practical Limitations of Embedded Z-Source DC-DC Converters in PV Applications 100	Power Electronics and converters	Debashisha Jena	NITK, Surathkal
16:45 - 15:00	Paper 176: Design and Analysis of SS Resonant IPT System with Computed Mutual Inductance through FEM Model 106	Power Electronics and converters	Kishan Dharavath	National Institute of Technology, Trichy
15:00 - 15:15	Paper 262: A Novel Configuration for PV-Battery-DG Integrated Standalone DC Microgrid 111	Renewable energy sources - Grid integration and Stand alone operation	Sanjeev Pannala	IIT, Roorkee

Session S14 : Control Systems for power Electronics/Power System applications**Venue: EE03 Electrical Block****Thursday 18th January 2018 16:00 - 17:15****Session Chair: Dr. B.V. Perumal, NITK Suratkal**

Time	Title	Theme	Presenter	Presenter affiliation
16:00 - 16:15	Paper 83: Techno-Environmental Impact Analysis of Optimally Incorporated DSTATCOM and DG using Modified Shuffled Frog Leaping Algorithm 117	Soft Computing and Optimization Techniques for Power Electronics/Power Systems	Surajit Sannigrahi	NIT, Durgapur
16:15 - 16:30	Paper 195: Performance Verification of a New Cascaded Transformer Based Multilevel Inverter Using Modified Carrier SPWM Strategy 123	Power Electronics and converters	Jammala Venkataramanaiah	NITK
16:30 - 16:45	Paper 200: Load compensation for non-stiff source system using MIRP theory for unbalance and non-linear load using DSTATCOM 129	High Voltage Engineering, FACTS and Power Quality	Rajat Shahane	VNIT, Nagpur
16:45 - 17:00	Paper 209: Development and performance analysis of modified decoupler based Control of Double Input DC-DC Converter 134	Power Electronics and converters	Dibyendu Sen	NIT, Durgapur
17:00 - 17:15	Paper 305: Effect of Coil Structures on Performance of a Four- Coil WPT Powered Medical Implantable Devices 140	Electric Machines and Drives	Phaneendra Babu Bobba	Shiv Nadar University

Session S16 : Power Electronics and converters**Venue: Eastern Amphi****Thursday 18th January 2018 16:00 - 17:15****Session Chair: Dr. M. Nandakumar, GEC Thrissur**

Time	Title	Theme	Presenter	Presenter affiliation
16:00 - 16:15	Paper 208: Electric Spring Configurations: Comprehensive Analysis 146	High Voltage Engineering, FACTS and Power Quality	Rutuja Pawar	Yeswantrao Chavan College of Engineering, Nagpur
16:15 - 16:30	Paper 211: An Improved Step-down Conversion Ratio Interleaved Buck Converter for Aircraft Applications 152	Power Electronics and converters	Drisya K Sasi	Govt.. Engineering College, Thrissur
16:30 - 16:45	Paper 215: A Three Phase Cascaded Multilevel Inverter Operated with Switching Frequency Optimal Technique 158	Power Electronics and converters	Reshma Krishnan R.	VNIT, Nagpur
16:45 - 17:00	Paper 223: A Modified T-type Single Phase Five-Level Inverter with Reduced Switch Voltage Stress 163	Power Electronics and converters	Narendra Babu	IIT, Roorkee
17:00 - 17:15	Paper 312: A Non intrusive Methodology for Bearing Current detection in PWM Inverter Fed Induction Motor Drive 168	Fault tolerant and diagnostic techniques	Gurmeet Singh	IIT, Kharagpur

Friday 19th January 2018

ICETEST2018- PICC2018 Keynote Talks

Venue: Eastern Amphi

Time	Resource Person	Affiliation	Topic
10.15 - 11.15	Dr. Vinod Khadkikar	Electrical Power Engineering, Masdar Institute of Technology, Abu- Dhabi, UAE	Autonomous Microgrids: Operation, Control and Challenges
13.30 - 14.30	Prof. K Gopakumar	Department of Electronics System Design Indian Institute of Science Bangalore	Low order harmonic suppression in induction motor drives with dodecagonal and octadecagonal voltage space vectors for drives

Session S21 : Electrical Power Systems

Venue: EE01 Maxwell Hall

Friday 19th January 2018 11:30 - 12:45

Session Chair: Dr. Shashidhara Kotian, BITS Pilani, Goa Campus

Time	Title	Theme	Presenter	Presenter affiliation
14:45 - 15:00	Paper 135: A Traveling Wave Based Method For Fault Location In Multi-Lateral Distribution Network 174	Electrical Power Systems	Ranjeet Kumar	MNIT, Jaipur
11:45 - 12:00	Paper 290: Experimental Validation of a Shunt Active Filter Based On Cascaded Multilevel Inverter with Single Excited DC Source 179	Electrical Power Systems	Ashish Ranjan Dash	NIT, Rourkela
12:00 - 12:15	Paper 293: Current Summation Based Approach for Loss Allocation with Distributed Generation 185	Electrical Power Systems	Kushal Jagtap	NIE, Mysore
12:15 - 12:30	Paper 299: An Intelligent Energy Bidding Strategy based on Opposition Theory Enabled Grey Wolf Optimizer 190	Electrical Power Systems	Bhanu Pratap Soni	MNIT, Jaipur
12:30 - 12:45	Paper 323: Sensitivity of Rotor Slot Harmonics due to Inter-Turn Fault in Induction Motors through Vibration Analysis 196	Electrical Power Systems	T.ch.anil Kumar	IIT, Kharagpur

Session S22 : Electrical Power Systems**Venue: Room: EE03 Electrical Block****Friday 19th January 2018 11:30 - 12:45****Session Chair: Dr. Reji P, GEC Thrissur**

Time	Title	Theme	Presenter	Presenter affiliation
11:30 - 11:45	Paper 86: Design of Standard Revenue Energy Meter for Electrical Locomotive (Railway Traction) 199	Instrumentation and Measurements	Manish Wath	VNIT, Nagpur
11:45 - 12:00	Paper 233: Load Balancing of Electrical Power Distribution System: An Overview 205	Electrical Power Systems	Madhusudhan Reddy Vuluvala	NIT, Kurukshetra
12:00 - 12:15	Paper 320: Polynomial pattern recognition analyses for evaluation of transient signals in transformers 210	Electrical Power Systems	Jeyabalan Velandy	Crompton Greaves Limited, Mumbai
12:15 - 12:30	Paper 328: Effective Combination of Motor Fault Diagnosis Techniques 217	Electrical Power Systems	Agam Gugaliya	IIT, Kharagpur
12:30 - 12:45	Paper 334: Acoustic Emission techniques for transformers during Lightning Impulse voltage excitation 222	Electrical Power Systems	Jeyabalan Velandy	Crompton Greaves Limited, Mumbai

Session S23 : Renewable energy sources - Grid integration and Stand alone operation**Venue: Eastern Amphi****Friday 19th January 2018 11:30 - 12:45****Session Chair: Dr. Vinod Khadkikar, Masdar Institute, UAE**

Time	Title	Theme	Presenter	Presenter affiliation
11:30 - 11:45	Paper 202: An Investigation on the Suitability of Grid Connected PV Inverters for Thermoelectric Generator Systems in Industrial Applications 229	Renewable energy sources - Grid integration and Stand alone operation	Bijukumar B	National Institute of Technology, Tiruchirappalli
11:45 - 12:00	Paper 225: Model-Based Maximum Power Point Tracking of an Ageing Solar PV Module 235	Renewable energy sources - Grid integration and Stand alone operation	Ali Akbar Ajmerwala	IIT, Bombay
12:00 - 12:15	Paper 264: A Single-Stage Universal Wireless Inductive Power Transfer System with V2G Capability 241	Electrical Power Systems	Akshay Rathore	Concordia University, Canada
12:15 - 12:30	Paper 268: A Novel Switched-Capacitor Based Single-phase Five-level Transformerless Inverter 246	Renewable energy sources - Grid integration and Stand alone operation	Veera Bharath Gandluru	IIT, Mumbai
12:30 - 12:45	Paper 274: Control of Fuel Cell and Electrolyzer based Hydrogen Storage System with Ultra-Capacitor for Voltage Stability and Enhanced Transient Stability in a DC Micro Grid 252	Energy storage systems and control	Ramchandra Bhosale	IIT, Bombay

Session S24 : Electric Machines and Drives
Venue: EE01 Maxwell Hall

Friday 19th January 2018 14:30 - 15:45

Session Chair: Dr. Binojkumar A C, RIT Kottayam

Time	Title	Theme	Presenter	Presenter affiliation
14:30 - 14:45	Paper 216: Quantization of Current Harmonic Spectrum in Predictive Torque Control 258	Electric Machines and Drives	Apekshit Bhowate	Visvesvaraya National Institute of Technology
14:45 - 15:00	Paper 218: Fractional Order PLL based Sensorless control of PMSM with Sliding Mode Observer 264	Electric Machines and Drives	Kantumutchu Venkata K S Satish Kumar	GVP College of Engineering
15:00 - 15:15	Paper 276: Investigation on the Performance of a 277.8 MVA Synchronous Air-Cooled Hydrogenerator Through Loss Models 270	Electric Machines and Drives	Karthik Desingu	IIT, Roorkee
15:15 - 15:30	Paper 294: Performance comparison of Two PWM Techniques Applied to BLDC Motor Control 276	Electric Machines and Drives	Ramchandra Bhosale	IIT, Bombay

Session S25 : Control Systems for power Electronics/Power System applications**Venue: EE03 Electrical Block****Friday 19th January 2018 14:30 - 17:45****Session Chair: Dr. Bobby Philip, SCT Trivandrum**

Time	Title	Theme	Presenter	Presenter affiliation
14:30 - 14:45	Paper 131: Epilepsy Region Localization in Signal Domain - A Smart Getup 282	Signal processing for power Electronics/Power System applications	Fasil Ok	Department of Computer Science, Central University of Kerala
14:45 - 15:00	Paper 137: Steady State Error Elimination and Harmonic Compensation Using Proportional Resonant Current Controller in Grid-tied DC Microgrids 287	Control Systems for power Electronics/Power System applications	Nirmal S	GEC, Thrissur
15:00 - 15:15	Paper 165: Structural Health Monitoring of Solid Propellant Using Embedded PVDF Sensor 292	Instrumentation and Measurements	Arjun Sankar R	ISRO
15:15 - 15:30	Paper 186: Proportional Resonant Control Technique for Grid Interfacing of Multilevel Inverter 296	Control Systems for power Electronics/Power System applications	Manoj Waghmare	Yeswantrao Chavan College of Engineering
15:30 - 15:45	Paper 206: Effect of Heterogeneity on Amplitude Death Based Stability Solution of DC Microgrid 302	Control Systems for power Electronics/Power System applications	Sanjeet Kumar Subudhi	NIT, Rourkela

Session S26 : Electrical Power Systems**Venue: EE01 Maxwell Hall****Friday 19th January 2018 16:00 - 17:15****Session Chair: Dr. Vincent G, GEC Palakkad**

Time	Title	Theme	Presenter	Presenter affiliation
16:00 - 16:15	Paper 198: A New Topology for Hybrid Wind-Solar Generation system for Isolated Loads 307	Renewable energy sources - Grid integration and Stand alone operation	Apurva Verma	NIT, Agartala
16:30 - 16:45	Paper 270: Intelligent Condition Monitoring System for Distribution Transformer and Health Status Diagnosis 314	Electrical Power Systems	Gajanan Jaiswal	Maharashtra State Electricity Distribution Company Limited, Nagpur
16:45 - 17:00	Paper 281: Peak load Relief in MV/LV Distribution Networks through Smart Grid-Enabled CVR with Droop Control EV2G Reactive Power Support 320	Electrical Power Systems	Shailendra Singh	IIT(BHU), Varanasi
17:00 - 17:15	Paper 282: Security Constrained Unit Commitment in a Power System based on Battery Energy Storage with High Wind Penetration 326	Electrical Power Systems	Pranda Prasanta Gupta	MNIT, Jaipur

Session S27 : Renewable energy sources - Grid integration and Stand alone operation**Venue: EE03 Electrical Block****Friday 19th January 2018 16:00 - 17:15****Session Chair: Dr. Sudharshan Kaarthik, IIST Trivandrum**

Time	Title	Theme	Presenter	Presenter affiliation
16:00 - 16:15	Paper 81: New approach to select the fault line based on transient energy features of fault phase N/A	Fault tolerant and diagnostic techniques	Huiting Xu	State Grid Hunan Electric Power Company, China
16:15 - 16:30	Paper 84: A Single Switch DC-DC Converter for Photo Voltaic-Battery Standalone System 332	Renewable energy sources - Grid integration and Stand alone operation	Anooj A S	GEC, Thrissur
16:30 - 16:45	Paper 101: Performance Comparison of Si and SiC MOSFETs in a Bidirectional Dual Half-Bridge Series Resonant Converter 338	Power Electronics and converters	Ashoka Bhat	University of Victoria, Canada
16:45 - 17:00	Paper 196: Effects of Partial Shading in Different PV module Configurations with Minimum Interconnections 344	Renewable energy sources - Grid integration and Stand alone operation	Vishnu P Madhanmohan	GEC, Thrissur
17:00 - 17:15	Paper 284: Optimal Deployment of Renewable DG and Battery Storage System in Distribution system considering Techno-Economic, Environment and Reliability aspects 350	Electrical Power Systems	Surajit Sannigrahi	NIT, Durgapur

Saturday 20th January 2018

ICETEST2018- PICC2018 Plenary Talk

Venue: Eastern Amphi

Time	Resource Person	Affiliation	Topic
9.00 - 10.00	Prof. Ashoka K.S. Bhat	Department of Electrical and Computer Engineering University of Victoria Canada	Role of Power Electronics in Alternate Energy Systems

Session S31 : Power Electronics and converters

Venue: Eastern Amphi

Saturday 20th January 2018 10:00 - 11:15

Session Chair: Dr. Dinesh Gopinath, GEC Idukki

Time	Title	Theme	Presenter	Presenter affiliation
10:00 - 10:15	Paper 227: Design and Analysis of a Novel Universal Power Converter 356	Power Electronics and converters	Mudadla Dhananjaya	NIT, Raipur
10:15 - 10:30	Paper 234: Analysis and Design of a High Frequency Isolated Full Bridge CLL Resonant DC-DC Converter for Renewable Energy Applications 362	Power Electronics and converters	Uday Patil	NITK, Surathkal
10:30 - 10:45	Paper 275: A Zero Current Switching Non Isolated Bidirectional Converter for Interfacing Energy Storage Devices with Microgrids 368	Power Electronics and converters	Shashank Kurm	IIT, Bombay
10:45 - 11:00	Paper 278: An Asymmetrical Multilevel Inverter with Minimum Number of Switches for 1- ϕ Grid-Connected Applications 374	Power Electronics and converters	Phanikumar Chamarthi	IIT, Bombay
11:00 - 11:15	Paper 279: Design and Analysis of Soft-switched Tri-State Boost Converter 380	Power Electronics and converters	Nasim Parvez	Kalinga Institute of Industrial Technology

Session S32 : Soft Computing/Optimization/Control and Manipulators for Power Electronics/Power System Applications

Venue: EE01 Maxwell Hall

Saturday 20th January 2018 10:00 - 11:15

Session Chair: Dr. Dollymary, GEC Idukki

Time	Title	Theme	Presenter	Presenter affiliation
10:00 - 10:15	Paper 71: Modeling and Control of Fractional Order PID Controller fed Rotary Inverted Pendulum 386	Control Systems for power Electronics/Power System applications	Abhijeet Lanjewar	VNIT, Nagpur
10:15 - 10:30	Paper 89: Design of PI Controller for Position Control System using Kronecker Summation Approach: Experimental Validation 392	Other relevant themes related to Electrical Engineering	Mihir Ghooi	IIT, Roorkee
10:30 - 10:45	Paper 114: PSO based backstepping sliding mode controller and observer for robot manipulators 398	Other relevant themes related to Electrical Engineering	Debashisha Jena	NITK, Surathkal
10:45 - 11:00	Paper 161: Optimized sliding mode control for input- output linearized MIMO nonlinear system with mismatched disturbances. 404	Control Systems for power Electronics/Power System applications	Sunila M.S.	Govt. Engg. college, Thrissur
11:15 - 11:30	Paper 194: Chaotic Time Series Prediction with Functional Link Extreme Learning ANFIS (FL-ELANFIS) 410	Other relevant themes related to Electrical Engineering	Gopinatha Pillai	IIT, Roorkee
11:30 - 11:45	Paper 272: Stabilizing a floating disc - analysis, field and lateral force calculation 416	Control Systems for power Electronics/Power System applications	Bharath Kumar Narukullapati	IIT, Kharagpur

Session S33 : Power Electronics and converters**Venue: Eastern Amphi****Saturday 20th January 2018 11:30 - 12:45****Session Chair: Dr. Padmanabhan Nambiar, Vidya Academy Thrissur**

Time	Title	Theme	Presenter	Presenter affiliation
11:30 - 11:45	Paper 280: Comparative Study Between Three-leg and Four-leg Current-Source Inverter for Solar PV Application 422	Renewable energy sources - Grid integration and Stand alone operation	Jayanth K G	BMSCE
11:45 - 12:00	Paper 300: Interleaved Cuk Converter with Reduced Switch Current 428	Power Electronics and converters	Joseph K.d.	Government Engineering. College, Trichur
12:00 - 12:15	Paper 301: CC operation of Temperature dependent Full Bridge Isolated DC DC Buck Converter for Battery Charging Applications 434	Power Electronics and converters	Sushank Sachan	NIT, Calicut
12:15 - 12:30	Paper 327: A New Symmetric Multilevel Converter Topology with Reduced Voltage on Switches and DC Source 440	Power Electronics and converters	Jagabar Sathik	SRM Institute of Science and Technology, SRM University
12:30 - 12:45	Paper 330: D-STATCOM: A Study on The NPC Multilevel Inverter and Control Strategies 446	Power Electronics and converters	Vidyasagar Tummakuri	NIT, Agartala

Session S34 : Electric Machines and Drives**Venue: EE01 Maxwell Hall****Saturday 20th January 2018 11:30 - 12:45****Session Chair: Dr. Rijil Ramchand, NIT Calicut**

Time	Title	Theme	Presenter	Presenter affiliation
11:30 - 11:45	Paper 214: Comparison of Fuzzy-2 Space Vector Hybrid PWM Method for Two-Level Inverter fed Induction Motor 452	Soft Computing and Optimization Techniques for Power Electronics/Power Systems	Abhiram Tikkani	Osmania university, Hyderabad
11:45 - 12:00	Paper 266: Four quadrant operation of direct torque controlled PMSM drive using speed loop PDFF controller 458	Electric Machines and Drives	Karthikeyan A	NITK, Surathkal
12:00 - 12:15	Paper 311: Electromagnetic Computational Analysis of Double Sided Linear Switched Reluctance Motor for Reduction of Force Ripples 464	Electric Machines and Drives	Anusha Vadde	MS Ramaiah University of Applied Sciences
12:15 - 12:30	Paper 317: A Comparative assessment on Flux Estimation Methods for Stator Current Based MRAS Speed estimator for Induction Motor drive N/A	Electric Machines and Drives	Bhavnesk Kumar	NSIT, Delhi
12:30 - 12:45	Paper 325: State Estimation for Wound Rotor Induction Motor using Discrete-time Extended Kalman Filter 471	Electric Machines and Drives	Sarathbabu Duvvuri	IIT, Hyderabad