

Contents- Modelling A, 2014

Vol. 87, n°1

- Effect of the shield lines on the electric field intensity around the high voltage overhead transmission lines. Djekidel, R.; Mahi, D. (Algeria)	1
- Low leaky 4 bit combinational multiplier using variable gate oxide thickness (VGOT) MOSFET for sub-threshold Leakage Minimization. Keerti, K.; Bheema, N. (India)	17
- Optimal allocation of distributed generator in a radial distribution network by loss minimization technique and improvement of the voltage profile with the help of FACTS devices. Saha, S.K.; Banerjee, S.; Chanda C.K. (India)	25
- Antenna measurements: a comparison of NISE- concave serrated CATR, ISE- concave serrated CATR techniques. Venkata, T. (India)	45
- Dissolved gas analysis of power transformer using AUROCC-based genetic fuzzy SVM fusion model. Jha, M.; Nisha, B.; Qureshi, M.F.; Rama, S. (India)	54
- Fault section diagnosis of power distribution system using interval type-2 fuzzy data mining. Jha, M.; Neelam, S.; Qureshi M. F. (India)	74

Vol. 87, n°2

- Fuzzy based simulation of D- STATCOM and DVR in power systems. Mithlesh, S.; Qureshi, M.F.; Adarsh, K.; Jah, M. (India)	1
- Rotor fault detection and diagnosis of induction motor using fuzzy logic. Mini, V.P.; Ushakumari, S. (India)	19
- Seismic analysis and strengthening of existing building due to addition of new floor. Sterpis, A.; Petřik, M. (Czech Republic)	41
- Design approach for ultra low power radiofrequency analog building blocks. Ouali, A.I.; El Oualkadi, A.; Laaziz, Y. (Morocco)	59
- ANFIS prediction of the polymer and polymer composite properties and its optimization technique. Gupta, V.; Rama, S.; Jha, M.; Qureshi, M.F. (India)	70
- A new approach design optimizer of induction motor using particle swarm algorithm. Chekroun, S.; Abdelhadi, B.; Benoudjit, A. (Algeria)	89

Vol. 87, n°3

- Electro deposition of nano crystalline La ₂ O ₃ on p-type Si wafer and electrical characterization for CMOS applications. Bikshalu, K.; Reddy, V.S.K.; Reddy, P.S.C.; Rao, K.V. (India)	1
- Pre-determination and experimental verification of voltage regulation from the output equivalent circuit in a forced resonant inductive coupled wireless power transfer system. Ramachandran, H.; Bindu G.R. (India)	10
- Genetic algorithm for the design of phase distribution to reduce quantization lobes. Kumar, B.K.; Raju, G.S.N. (India)	30
- Design of array antenna for symmetrical sum patterns to reduce close-in sidelobes using particle swarm optimization. Kumar, S.; Raju, G.S.N. (India)	44
- Decoupled state-feedback controller of three phase shunt active power filter: unbalanced current compensation. Abaali, H.; Lamchich M.T.; Raoufi, M. (Morocco)	57

Contents- Modelling A, 2013

Vol. 86, n°1

- Reliability investigation of series-parallel and components of power system using interval type-2 fuzzy set theory. Sharma, A.; Jha, M.; Qureshi, M.F.(India)	1
- Study of sub-threshold leakage currents for 32 nm, 45 nm, 90nm, 130 nm technologies using variable gate oxide thickness (VGOT) MOSFET. Keerti Kumar, K.; Bheema, Rao, N. (India)	17
- Digital simulation of dielectric properties of low loss materials with the experimental validations using rectangular waveguide structure. Belrhiti, M.D.; Bri, S.; Nakheli, A.; Mamouni, A.(Morocco-France)	27
- Detailed approach to analysis of ship-to-structure collision using both experimental and numerical methods. Petrik, M. (Czech Republic)	39
- Value-based system reliability planning by spinning reserve technique. Saha, S.K.; Banerjee, S.; Chanda, C.K. (India)	52

- Analysis and comparison on the effect of different broken bar locations in three-phase induction motor. Hammadi, K.J.; Ishak, D.; Salah, W.A. (Malaysia).....	64
- Simulation of solidification time of commercially pure aluminium casting in metallic moulds. Bala, K.C.; Khan, R.H. (Nigeria).....	76
- Reconfiguration of distribution systems based on fuzzy multi-objective approach by considering distributed generators. Banerjee, S.; Das, D.; Chanda, C.K. (India).....	87
- Rotor fault detection and diagnosis of induction motor using fuzzy logic. Mini, V.P.; Ushakumari, S. (India).....	106
<u>Vol. 86, n°2</u>	
- Development of fuzzy type-2 reliability models for power system reliability evaluation problems and preventive maintenance suggestions. Sharma, A.; Jha, M.; Qureshi, M.F.(India).....	1
- Biconical dipole (5x5) square planar array for higher gain and low side lobe levels. Subba Rao, C.; Sudhakar, A. (India).....	16
- Study and design of patch antenna $\lambda/8$ for WIMAX technology applications. Latif, A.; Ait Ouahman, A. (Morocco).....	31
- Modelling and characterization of carbon nanotubes FETs. Kebaili, F.; Benabbas-Marir, M. (Algeria).....	41
- Generation of narrow beams from waveguide ring arrays for radar applications. Kumar Naik, K.; Raju, G.S.N. (India)	53
- An adaptive selective current harmonic elimination technique using recursive least square (RLS) algorithm for three phase AC voltage controllers. Padmanabhan, S.; Sudhakaran, M.; Jeevananthan (India).....	71
- Genetic algorithm based selective harmonic elimination technique for multilevel inverters with unequal voltage sources. Sreedhar, T. ; Udhayakumar, K. (India).....	87
- Interval type-2 fuzzy logic based motor current signature analysis for fault diagnosis and condition monitoring of induction motors. Jha, M.; Suryawanshi, H.; Qureshi, M.F. (India).....	105
- Analysis of pitting corrosion of 304austenitic stainless steel weld in 3.5% NaCl. Al-rubaiev, S.I.; Abbas, M.K.; Ottawi, O.A. (Iraq)	123

Modelling A, 2012

Vol. 85, n°1

- <i>Harmonic analysis of an AC chopper fed single phase induction motor.</i> Chattopadhyay, A. B.; Valliappan, R. M.; Garg, U.; Ram, R.; Jain, A.; Chatterjee, R. (United Arab Emirates).....	1
- <i>A novel design of micro-electro-mechanical Systems (MEMS) optical pressure sensor.</i> Fei, J.; Fang, Y. (P.R. China)	16
- <i>The electro-mechanical performance characteristics of network connected induction generators through different AC voltage controllers.</i> Abdel-Halim, M. A.; Almarshoud, A. F. (Saudi Arabia).....	29
- <i>Radar analysis of stator current Concordia for diagnosis of unbalanced in mass and cracks in rotor bar of a squirrel cage induction motor.</i> Chattopadhyay, S.; Kamarkar, S.; Mitra, M. P.; Sengupta, S. (India).....	50
- <i>Design of a 1.9 GHz gilbert-cell down-conversion mixer with good linearity in 0.18μm CMOS technology.</i> Faitah, K.; Mahmoud, R. (Morocco).....	62
- <i>A comprehensive study of a double star and double fed induction machine based on direct torque control.</i> Benalia, L.; Chaghi, A.; Abdessemed, R. (Algeria).....	80

Vol. 85, n°2

- <i>Polarization and transition probability analysis for smart materials.</i> Fei, J.; Fang, Y. (P.R. China).....	1
- <i>Loss of phase fault detection of an induction motor.</i> Chattopadhyay, S.; Kamarkar, S.; Mitra, M. P.; Sengupta, S. India)	18

- Simulation and analysis of power switches for low standby power in KMOS VLSI design. Deshmukh, J.; Khare, K. (India)	35
- Impact of renewable energy sources interconnected to the power systems and compliances to the Australian grid. Mohapatra, R.; Kalam, A. (Australia)	47
- Influence of the exciton dissociation on the photocurrent density of a bilayer heterojunction organic solar cell based on copper phthalocyanine (CuPc) and fullerence (C ₆₀). Dioum, A.; Ndiaye, S; Faye, M.; Guèye, E. H. O.; Niasse, O. A.; Sakho, O.; Beye, A. C. (Senegal)	71

Modelling A-2011

Vol. 84 n° 1

<u>Page</u>	
- Indirect vector control of induction motor using space vector pulse-width-modulation (SVPWN). Prawin Angel Michael; N. Devarajan; K. V. Praveen (India)	1
- A real-coded genetic algorithm based power flow solution with the system reduction and restoration. H. Kubba; R. Omar; J. Soltani (Malaysia-Iraq)	21
- Techniques for analysis and shape optimisation of inductor type brushless alternators used for train-lighting. G.R. Bindu; K.P.P. Pillai; A. S. Nair (India)	41
- A hybrid technique for efficiency optimization for variable speed induction machine. R. Yanamshetti; S.S. Bharatkar; D. Chatterjee; A. Ganguli (India)	61
- Performance comparison of a closed loop permanent magnet brushless DC drive system (PMBLDC) with hysteresis and modified predictive current controllers. Lekshmi, A.; Sankaran, R; Ushakumari, S. (India)	73
- Part-wise linear characteristics of FFT based spectrum of current transformer. S. Chattopadhyay; M. Mitra; S. Sangupta (India)	89

Vol. 84 n° 2

Page

- A modified particle swarm optimization approach for model formulation of linear time invariant discrete systems. S.N. Deepa; G. Sugumaran (India)	1
- Evolutionary algorithms based solution for elimination of lower order harmonics in voltage source inverter. V. Jegathesan; J. Jerome (India)	21
- Reactive power impact on three-level inverter behaviour. M.S. Kelaiaia; H. Labar; S. Kelaiaia; T. Mesbah (Algeria)	37
- Synthesis of circular apertures for desired radiation patterns. J. Bahu; G.S.N. Raju (India)	52
- Design and modelling of broad band patch antenna. M. Iftissane; S. Bri ; A. Mamouni (Morocco-France)	78
- Nonlinear dynamics in generalized electrical machines. G.K. Panda; P. K. Saha (India)	99

Modelling A-2010

Vol. 83 n° 1

<u>Page</u>	
- "Design of dynamically configurable code division multiple access (CDMA) arbiter and dynamically configurable CDMA bus for S ₀ C _s ". S. Hema Chitra; P. T. Vanathi (India)	1
- "Modelling and control of blood glucose regulation in Type I diabetic mellitus". T. Vinopraba; N. Sivakumaran; T. K. Radhakrishnan; S. Raghavan (India)	17
- "Digital simulation of energy saver for single phase induction motor". M. Narendra Kumar; K. S. R. Anjaneyulu (India)	33
- "The effects of static synchronous compensator and static synchronous series compensator on damping oscillations in power systems". D. Murali; M. Rajaram (India)	43
- "High gain ultra wideband biconical antenna array". C. Subba Rao; A. Sudhakar (India)	68
- "Small and large-signal modelling of a modular current-mode controlled flyback dc-dc converter". M. R. D. Al-Mothafar (Jordan)	79

Vol. 83 n° 2

- “Comparison of fault location on extra high voltage lines using support vector machine and scaled conjugate gradient with ANN”. K. Gayathri; N. Kumarappan (India).....1
- “Assessment of reliability and maintenance parameters for particle swarm optimisation (PSO) based generation maintenance scheduling using levelized risk method”. N. Kumarappan; K. Suresh (India).....20
- “Design, simulation, experimentation and analysis of three-phase cascaded multilevel inverter with reduced power quality issues”. V. Kumar Chinnaiyan; Jovitha Jerome; J. Karpagam (India).....34
- “A 3D modelling of a polycrystalline silicon bifacial solar cell: determination of thickness and diffusion capacitance of emitter-base junction”. S. Mbodji; B. Mbow; M. Dieng; F. I. Barrow; G. Sissoko (Senegal).....47
- “Control of the power transit with Thyristor controlled series capacitor application to an electrical power network”. F. Lakdja; F. Z. Gherbi; M. Adjoudj (Algeria).....63
- “Modelling and simulation of synergism of hydraulic and Eddy current absorber for aircraft arrester barrier system”. Ibraheem; D. K. Chaturvedi; A. K Singh; S. Khatoun (India)..... 80

Vol. 83 n° 3

- “Design of a modified ultra-wide band low-noise amplifier (UWB.LNA) topology with good linearity in CMOS 65nm technology”. K. Fatah; A. El Oualkadi; S. Belkouch; A. Ait Ouahman (Morocco).....1
- “Particle swarm optimisation based optimal power flow for units with non-smooth fuel cost functions”. D. Ben Attous; Y. Labb (Algeria).....24
- “Development of rank indicators for transmission lines and generators to forecast voltage stability status of power system in presence of SVC”. S. Halder; P. Nagendra; P. Raseswari (India)38
- “Non uniform triangular microstrip leaky-wave antenna with shaped beam patterns for millimetre band applications”. Z. Mekkioui; H. Baudrand (Algeria-France)52
- “Transient response based model for analysis of conducted electro-magnetic interference (EMI) emissions in pulse width modulated (PWM) inverters”. D. Anand; S. Jeevananthan (India).....66
- “Pattern mulling in linear array antennas with mutual coupling effects using Taguchi method”. A. Reციoui; H. Bentarzi (Algeria).....78

Vol. 84 n° 4

- “Steady state performance of a directly connected PV array/six step VSI/induction motor system”. I. A. M. Abdel – Halim; H. G. Hamed; A. M. Hassan (Egypt).....1
- “Study on radiation patterns of arrays using new space distributions”. K. V. S. N. Raju; G. S. N. Raju (India).....14
- “A modified switching technique for communication torque ripple reduction of a brushless DC motor drive”. S. S. Bharatkar; R. Yanamshetti; D. Chatterjee; A. K. Ganguli (India).....27
- “Hybrid differential evolution to solve reactive power dispatch problems”. A. Brattacharya; P. K. Chattopadhyay (India).....48
- “Generation of multiple beams from array antennas”. M. Surendra Kumar; G. S. N. Raju (India).....70

Modelling A-2009

<u>Page</u>	<u>Vol. 82 n° 1</u>
– “A novel high speed analog to digital converter for ultra wideband ratio”. A. Mohand; A. Zayegh; A. Stojcevski; A. Veljanovski; D. Fitrio; S. P. Sah (Australia-India)	1
– “Recursive estimation of power system frequency by advanced signal processing technique”. B. Subudhi; P. K. Ray; S. R. Mohanty; A. M. Panda (India).....	16

- “Fuzzy combined support vector machines for transient stability assessment of power systems”. B. Dora Arul Selvi; N. Kamaraj (India).....27
- “Fault detection and isolation in a speed control system using parameter estimation and fuzzy logic”. K. H. Sharafunnisa; S. Ushakumari; M. Jayakumar (India)42
- “Radiation patterns of dipoles in the vicinity of metallic bodies”. U. Jayalakshmi; P. V. Sridevi; G. S. N. Raju (India).....58
- “A new 2-D analytical threshold voltage model for dual material surrounding gate MOSFETS for low power VSLI applications”. N. B. Balamurugan; K. Sankaranarayanan; M. Younus Ali; M. Sugana (India).....72

Vol. 82 n° 2

- “Solution for the elimination of lower order harmonics in voltage source inverter feeding an induction motor drive using genetic algorithm and neighbourhood search”. V. Jegathesan; J. Jerome (India).....1
- “A new scaling theory for effective conducting path effect of dual material surrounding gate MOSFETS in CMOS applications”. N. B. Balamurugan; K. Sankaranarayanan; M. Fathima John (India).....17
- “A new formulation of dynamic economic dispatch using a hopfield neural network”. F. Benhamida; A. Bendaoud (Algeria)33
- “The mobile station designing and calibrating, application to seismic instrumentation”. A. Atmani; E. Akhouayry; D. Agliz; H. Aït Laasry; M. Banouni (Morocco).....48
- “Var-voltage control by particle swarm optimization (PSO) method-application in the western algerian transmission system”. S. Chettih; M. Khiat; A. Chaker (Algeria).....65
- “An approach to relate and optimize metal forming process parameters by fuzzy logic”. S. L. Mahmood; N. A. Chowdhury; A. U. Patwari; Fazilatunnessa (Bangladesh-Canada).....80

Vol. 82 n° 3

- “Fuzzy modelling of seismic wave propagation in semi-infinite body referring rayleigh waves and development of fuzzy rule base”. M. F. Qureshi; N. P. Dewangan; G. D. Ramtekkar; S. R. Kamlesh (India)1
- “Vector control of a variable reluctance machine stator doubly fed and rotor discs”. A. Boucetta; M. L. Bendaas (Algeria).....21
- “Simulation and optimisation of microresonators using sugar and multi-objective genetic algorithm (MOGA)”. S. Meenatchisundaram; S. M. Kulkarni; P. R. Venkateswaran; G. Uma; M. Umapathy (India).....32
- “Application of linguistic weighted average for reliability analysis of interconnected hybrid electric power system”. M. F. Qureshi; H. S. Hota; H. P. Singh (India)48
- “An approach for determination of the parameters of a photovoltaic module”. I. A. M. Abdel-Halim (Egypt).....69
- “Optimized semicircular fuzzy membership function for broken rotor bar detection scheme for three phase induction motor”. D. Somasundareswari; N. Devarajan; V. Duraisamy; A. Anu; S. N. Sivanandam

(India).....
.....79

Vol. 82 n° 4

- “Modelling of D.C-D.C. Boost converter state variable modelling and error analysis”. A. B. Chattopadhyay; S. S. Dubey; A. Bhattacharjee; K. Raman (UAE-India).....
.....1
- “Simulation of DC Motors fed from photovoltaic arrays”. I. A. M. Abdel-Halim; H. G. Hamed; M. E. Elfaraskoury (Egypt).....
.....17
- “Optimisation of starting time of three phase induction motor”. A. B. Chattopadhyay; Smrithi Ajit; R. M. Valliappan (UAE)
.....29
- “Modelling of delamination in fibre reinforced plastic (FRP) laminated composites”. A. Chakrabarti; P. K. Gupta; S. Chakraborti; K. G. Babu (India).....
.....50
- “Some aspects of small perturbations model of a single machine infinite bus system taking air-gap saliency into account”. A. B. Chattopadhyay; S. C. Pandey; J. S. Swaraj; L. Suneja (UAE-India)
.....68
- “Validation of the self-organizing map tuned adaptive neuro-fuzzy inference system (SONFIS) for visualization and rectification of power system problems”. M. F. Qureshi; R. P. Singh; A. K. Saxena (India).....
.....79

Modelling A - 2008

Vol. 81 n° 1

- “Modelling and simulation for the comparative study of tensional stresses in the shaft of a turbine-generator set”. B. S. Umre; M. K. Khedkar; J. P. Modak (India)..... 1
- “Testing and analysis of a high speed algorithm for a dispatcher training simulator”. J. Jerome; K. Keerthivasan; V. Sharmi Ladeve (India)..... 13
- “Modelling and simulation of a photovoltaic system”. A. Abounada; A. Brahmi; M. Brahmi; M. Ramzi (Morocco)..... 29
- “CMOS low noise amplifier for wideband mobile receiver”. M. T. Mustafa; A. Zayegh; R. Veljanovski; A. Stojcevski; T.Z.A. Zulkifli (Australia - Malaysia)..... 40
- “Modelling of unified power flow controller (UPFC) for long term dynamic simulation in dispatcher training simulator”. J. Jerome; K. Keerthivasan; B. Gokul Sharmila (India)..... 60

Vol. 81 n° 2

- “Modelling and Simulation of an induction start permanent magnet synchronous (ISPMS) using reluctance-mmF network”. S. Kumar; B. Umamaheswari (India)..... 1
- “Design optimization of induction motor efficiency by genetic algorithms”. S. Chekroun; B. Abdelhadi; A. Benoudjit (Algeria)..... 14
- “The use of root mean square values (RMS) for the shortcoming diagnostic of permanent magnet synchronous machine using artificial neurone network module”. D. Khodja; B. Chetate (Algeria)..... 30
- “Analytical and experimental study of squirrel cage induction motors with rotor bars faults”. A. Ghoggal; M. Sahraoui; S. E. Zouzou (Algeria)..... 43
- “AC/DC/AC PWN Converter three-phase utility to provide a regulated DC output and to maximized line current harmonics using fuzzy model reference adaptive & sliding mode controllers”. M. T. Benchouia; A. Ghamri; M. E. H. Benbouzid; A. Golea; S. E. Zouzou (Algeria-France)..... 60

Modelling A – 2007

Vol. 80 n° 1

Page

- “Hamming distance based test rector reordering techniques for minimizing switching activity during testing of VLSI circuits”. K. Paramasivan; K. Gunavathi (India).....1
- “Average current mode to control the three-phase shunt active power filters under distorted and unbalanced voltage conditions”. H. Abaali; M.T. Lamchich; M. Raoufi (Morocco).....14
- “Application of EKF Algorithm for rotor speed, flux and resistance estimation in induction motors”. A. Guergazi; A. Moussi; A. Debilou (Algeria).....28
- “Three-phase shunt active power filter control using synchronous detection algorithm to compensate current perturbation”. H. Abaali; M.T. Lamchich; M. Raoufi (Morocco).....38
- “A simulation study on the membership functions and defuzzification schemes for fuzzy based fault diagnosis in single phase induction motor”. V. Duraisamy; N. Devarajan; D. Somasundareswari; S.N. Sivanandam (India)..52
- “Characteristics, performances and scan blindness of a 2-D microstrip leaky-wave antenna”. Z. Mekkioui; H. Baudrand (Algeria-France).....66

Vol. 80 n° 2

Page

- “Power quality improvement of grid connected PV inverters”. J. Devishree; P. Ambalagan; Sujijose; A. Umayal (India).....1

- “A theoretical analysis of a double-beam microstrip dielectric leaky-wave antenna”. Z. Mekkioui; H. Baudrand (Algeria-France).....14
- “Power quality enhancement of nigerian power distribution systems by use of distribution static compensator (D-STATCOM)”. Nwohu, M.N. (Nigeria)....36
- “Effects of static synchronous compensator (STATCOM) on voltage stability and transmission losses of electric power systems”. Nwohu, M. N. (Nigeria).45
- “Induction machine inductance parameters identification by reducing the mesh domain”. M. Bouharkat; A. Abdessemed (Algeria).....56
- “Average current mode to control the three phase shunt active power filters under distorted and unbalanced voltage conditions”. H. Abaali; M.T. Lamchich; M. Raoufi (Morocco).....68

Vol. 80 n° 3

Page

- “Estimation of strength and module of composite material”. K.A. Adedeji; A.A. Adenowo (Nigeria).....1
- “Modelling and simulation of battery charging process adopting human powered flywheel motor as an energy source”. S.B. Desphande; J.P. Modak; S.G. Tarnekar (India).....11
- “Integration of the jiles-atherton hysteresis model in coupled electromagnetic and thermal phenomena modelling”. S. Souvi; K. Srairi; S. M. Mimoune (Algeria).....25
- “Harmonic analysis in a three-phase system using park transformation technique”. S. Chattoadhy; S.Sengupta; M. Mitra (India).....42
- “Dependence of a 3x3 in. Nal (TI) detector intrinsic efficiency on its dimensions, energy and off axis distance”. F.O. Ogundare; E.O. Oniya; F.A. Balogun (Nigeria).....58

Vol. 80 n° 4

Page

- “Failure criteria analysis of composite material structures”. K.A. Adedeji; O. Duduyemi (Nigeria).....1
- “Quantum engineering-A review”. Vik. Jagannatham; A. Mahadevan; Vid. Jagannatham; E. Srinivasan (USA-India).....15
- “Transmission limitations due to individual and combined effects of fiber loss and dispersion in optical networks”. S.M.H. Abu-Gazleh; A.A. Eyadeh (Jordan).....32
- “Inductance optimization by turn segments tapering for RF applications”. M. Bheema Rao; A.N. Chandorkar (India).....48
- “Microstrip leaky wave antenna analysis with sinusoidal metallic shape”. Z. Mekkioui; H. Baudrand (Algeria-France).....59