

IEEE UPCON 2015 Technical Sessions

TS1 (Com-1) Date - December 04, 2015 Time - 03.15 PM (Venue - CC3, 5054)

Session Chair - Dr. Kumar Vaibhav Shrivastava (IIT Kanpur)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|-------------------|---|--|---|
| 5 | Vishal Vashistha | IIT Roorkee | Design and Analysis of Ultra Wide Band hemispherical Dielectric Resonator Antenna | Vishal Vashistha and R.P. Maheshwari |
| 95 | Sonam Srivastava | IIIT Allahabad | Design of a Reconfigurable Antenna with Fractal Geometry | Sonam Srivastava, Pooja Mishra and Rajat Kumar Singh |
| 110 | Debdeep Sarkar | IIT Kanpur | Triple Band Circularly Polarized Printed Crossed Dipole Antenna Employing Interdigital Capacitors | Aditya Singh, Debdeep Sarkar, Kushmanda Saurav and Kumar Vaibhav Srivastava |
| 113 | Debdeep Sarkar | IIT Kanpur | A High Gain and Wideband Directional Antenna using Z-shaped Near Zero-Index Metamaterial (NZIM) Resonators | Hemant Suthar, Debdeep Sarkar, Kushmanda Saurav and Kumar Vaibhav Srivastava |
| 141 | Rajendra Singh | IIT Roorkee | Performance Analysis of Multilevel Delta Sigma Modulators for 3G/4G Communication | Rajendra Singh, Praveen Jaraut, Girish Chandra Tripathi and Dr. Meenakshi Rawat |
| 144 | Mahesh M Munde | St. Xavier's Technical Institute, Mahim, Mumbai | ANDLINE (A simple solution for the cons of using a Mobile phone.) | Glen Fernando and Nevin Fernandes |
| 164 | Ojaswi Chandrakar | IIIT Allahabad | Reduction of the Nonlinearities by decreasing Peak to Average Power Ratio (PAPR) for Coherent Optical OFDM-WDM system using Exponential Companding | Ojaswi Chandrakar and Rajat Kumar Singh |

TS2 (BioInfo) Date - December 04, 2015 Time - 03.15 PM (Venue - CC3, 5006)

Session Chair - Dr. T. Lahiri (IIIT Allahabad)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|-----------------|--|---|--|
| 138 | Apoorv Chetan | IIIT Allahabad | Cardiac Arrhythmia Classification from Multilead ECG using Multiscale Non-linear Analysis | Apoorv Chetan, Rajesh Tripathy and Samarendra Dandapat |
| 215 | Nilanjan Santra | Maulana Abul Kalam Azad Uni. of Tech., West Bengal | Neural Modelling of Gene Regulatory Network using Firefly Algorithm | Nilanjan Santra, Surama Biswas and Sriyankar Acharyya |
| 217 | Surama Biswas | Maulana Abul Kalam Azad Uni. of Tech., West Bengal | Identification of Disease-Critical Genes Causing Preeclampsia: Meta-heuristic Approaches | Jahnabi Dutta, Surama Biswas, Souvik Saha and Sriyankar Acharyya |
| 218 | Muneendra Ojha | IIIT Allahabad | A Guided Multiobjective Genetic Algorithm for Decision Making Problems | Muneendra Ojha, Krishna Pratap Singh, Pavan Chakraborty and Sekhar Verma |
| 277 | Rijwan Khan | Jamia Millia Islamia, Jamia Nagar, New Delhi | Automatic Test Case Generation for Unit Software Testing Using Genetic Algorithm and Mutation Analysis | Rijwan Khan and Mohd Amjad |
| 292 | Kanhaiya Kumar | IIT Roorkee | Economic Load Dispatch Problem Considering Valve-point Effects Using Time Varying Constriction Factor based Particle Swarm Optimization | M Alam |
| 333 | Rajnish Kumar | IIIT Allahabad | Models of Circular RNA Biogenesis | Rajnish Kumar and Tapobrata Lahiri |

TS3 (RoboAI+LT) Date - December 04, 2015 Time - 04.30 PM (Venue - CC3, 5055)

Session Chair - Dr. Pavan Chakraborty (IIIT Allahabad)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|---------------------|--|---|---|
| 31 | Sidharth Rajeev | Sree Buddha College of Engineering, Kerala | SEVENTH SENSE TECHNOLOGY | Sidharth Rajeev |
| 146 | Sahib Singh Dhanjal | BITS Pilani | Design and Development of Board Cleaning Serial Manipulator | Sahib Singh Dhanjal and Dilip Kumar Pratihar |
| 167 | Eshita Rastogi | MMM University of Technology, Gorakhpur | Comparative performance analysis of PD/PID computed torque control, filtered error approximation based adaptive control, and NN control for a robotic manipulator | Eshita Rastogi and Lal Bahadur Prasad |
| 244 | Shubham Varma | IIT (BHU), Varanasi | Refined And Diversified Query Suggestion With Latent Semantic Personalization | Shubham Varma, Mehul Jain, Deepak Sharma and Anupam Beniwal |

TS4 (COM-2) Date - December 04, 2015 Time - 04.30 PM (Venue - CC3, 5054)

Session Chair - Dr. Y.N. Singh (IIT Kanpur)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|----------------|--|---|---|
| 179 | Utpal Pandey | IIIT Allahabad | Channel Selection Algorithm for MIMO in Multipath Environment | Utpal Pandey, Sharad Kumar, Abhishek Bajpai and Rajat Kumar Singh |
| 195 | Tanay Paradkar | IIIT Allahabad | Evaluation of Extended CP and Ultra-extended CP in MBSFN | Anirban Bhowal, Tanay Paradkar and Neetesh Purohit |
| 202 | Sharad Kumar | Invertis University, Bareilly | MIMO Signal Detection in Multipath Environment | Sharad Kumar, Utpal Pandey, Abhishek Bajpai and Rajat Kumar Singh |
| 209 | Tarun Kumar | University of Petroleum and Energy Studies, Dehradun | Analysis of the Effective permittivity and Effective permeability of a grid of ferromagnetic microwires | Tarun Kumar |
| 266 | Yashwant Kurmi | MANIT, Bhopal | Microstrip Planer Antenna Array by Proximity Fed for Complete S Band Applications | Yashwant Kurmi, Vijayshree Chaurasia and Harish Kaptan |

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|-----|--------------------------|-------------------------|--|---|
| 287 | Kumar Vaibhav Srivastava | IIT Kanpur | Design of Compact Planar Inverted-F Antennas Loaded with LC Resonators | Sanampudi Venkatrami Reddy, Kushmanda Saurav, DebdEEP Sarkar and Kumar Vaibhav Srivastava |
| 305 | Suman Yadav | G.C.E.T., Greater Nojda | Closed form Expression of Ergodic Capacity for Multi Cell Cooperation using MHCP | Suman Yadav and S Pratap Singh |

TS5 (DataMin) Date - December 04, 2015 Time - 04.30 PM (Venue - CC3, 5006)
Session Chair - Dr. Manish Kumar (IIIT Allahabad)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|----------------------|---|--|--|
| 116 | Akshendra Garg | IIIT Allahabad | Performance Evaluation of Distance Measures for Preprocessing of Set-valued data in Feature Vector generated from LOD datasets | Rajesh Mahule, Akshendra Garg, Nitesh Kumar and Om Prakash Vyas |
| 124 | Asif Adil | BFIT Dehradun | Analysis of Multi-diseases using Big Data for Improvement in Healthcare. | Asif Adil, Hushmat Amin Kar, Rajendra Jangir and Shabir Ahmad Sofi |
| 250 | Dinesh Verma | Jaypee University of Engineering & Technology, Guna | Emperical study of defects dependency on software metrics using clustering approach | Dinesh Verma and Shishir Kumar |
| 299 | Ritanjali Panigrahi | Indian Institute of Management, Rohtak | Evaluation of Travel Websites: A Fuzzy Analytical Hierarchy Process approach | Ritanjali Panigrahi and Praveen Srivastava |
| 302 | Vishal Krishna Singh | IIIT Allahabad | Data Aggregation based Link Loss Inference in Wireless Sensor Networks | Vishal Krishna Singh, Ajit Singh and Manish Kumar |
| 328 | Anu Mary Chacko | National Institute of Technology, Calicut | Capturing Provenance for Big Data Analytics done Using SQL interface | Anu Chacko, Ajeeb Basheer M and Madhu Kumar S D |
| 361 | Narasimha Raju | Shri Vishnu Eng. College for Women, AP | An Efficient New Approach Mean Based Sorting | Narasimha Raju |
| 362 | Arpita Bhargava | IIIT Allahabad | Kalman Filter for Trust Estimation in VANETs | Arpita Bhargava, Shekhar Verma and Brijesh Kumar Chaurasia |

TS6 (NetW+SigP) Date - December 05, 2015 Time - 11.45 AM (Venue - CC3, 5055)
Session Chair - Dr. Shrishu Verma (IIIT Allahabad)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|-----------------------|---|--|---|
| 48 | Kshitiza Singh | IIIT Allahabad | An Energy Efficient Fuzzy based Adaptive Routing Protocol for Wireless Body Area Network | Kshitiza Singh and Rajat Kumar Singh |
| 87 | Sandhya Onkar Ahire | All India Shri Shivaji Memorial Society's I.O.I.T. Pune | ECORMAN: Cooperative Opportunistic Routing Scheme (CORMAN) with Efficient Channel Reuse MAC Protocol for Mobile Ad Hoc Network (MANET) | Sandhya Ahire and Dr.Dnyandeo Shedge |
| 208 | Harikesh Singh | Jaypee University of Engineering & Technology, Guna | Optimized Resource Allocation Mechanism for Web Server Grid | Harikesh Singh and Shishir Kumar |
| 212 | Isha Pathak | JNU New Delhi | An Interactive Artificial Bee Colony based Virtual Network Embedding | Isha Pathak and Deo Prakash Vidyarthi |
| 230 | Priyanka Athwani | JNU New Delhi | Resource Discovery in Mobile Cloud Computing : A Clustering Based Approach | Priyanka Athwani and Deo Prakash Vidyarthi |
| 258 | Devki Nandan Jha | JNU New Delhi | A Heuristic for Security Prioritized Resource Provisioning in Cloud Computing | Devki Nandan Jha and Deo Prakash Vidyarthi |
| 280 | S. Robinson | MZ College of Eng. and Tech., Tamil Nadu | Quality of Service Enhancement in MANET using Priority Aware Mechanism in AOMDV Protocol | Jayson Jayabarathan, Sivantharaja A and Robinson S |
| 3 | Karanbir Singh Bhatia | Ericsson India Global Services Pvt. Ltd. | Design and Implementation of MAC unit based on Vedic Square, and its Applications | Gitika Bhatia, Karanbir Singh Bhatia and Pradeep Kumar |
| 308 | Anurag Singh | IIT Guwahati | Exploiting Interchannel Correlation in Multichannel Compressed Sensing ECG Systems | Anurag Singh and Samarendra Dandapat |
| 353 | Abhinay Kumar | Graphic Era University, Dehradun | Study of Soil Moisture with PALSAR Data for Solani River Catchment Area of Roorkee, Uttarakand, India | Abhinay Kumar, Ankita Pasbola, Ashish Joshi and Rishi Prakash |

TS7 (PE+Minst) Date - December 05, 2015 Time - 11.45 AM (Venue - CC3, 5054)
Session Chair - Dr. Rajesh Gupta (IIIT Allahabad)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|--------------------|---|---|--|
| 191 | Vipin Chandra Pal | MNNIT Allahabad | Stability Analysis of Discrete Time Systems Subjected to Input Quadratic Nonlinearity with Saturation | Vipin Chandra Pal, Vikas Singh and Richa Negi |
| 207 | Monica Mehrotra | MNNIT Allahabad | Balanced Realization for Order Reduction of Uncertain Systems using Frequency Weights | Monica Mehrotra and Dinesh Chandra |
| 289 | Pritam Patel | National Institute of Technology, Agartala | DSA/WDO Based PI Controller tuning for D-STATCOM for Reactive power Compensation | Pritam Patel, Srikant Rout, Milan Swain and Punyaban Patel |
| 342 | Sandeep D. Hanwate | IIT Roorkee | Improved Performance of Cart Inverted Pendulum System Using LQR Based PID Controller and ANN | Sandeep Hanwate, Akshit Budhraj and Yogesh Hote |
| 350 | Shweta Gautam | Netaji Subhash Institute of Technology, New Delhi | Balanced Control of Multicell AC-DC Converter with Cascaded H-bridge Cells | Shweta Gautam and Rajesh Gupta |
| 117 | Chilaka Ranga | NIT Hamirpur | Advanced Tool Based Condition Monitoring Of Induction Machines by Using Labview: A Review | Chilaka Ranga and Ashwani Kumar Chandel |
| 159 | Chilaka Ranga | NIT Hamirpur | Multi-Criterion Approach for Dissolved Gas Analysis of Transformer Oil | Chilaka Ranga and Ashwani Kumar Chandel |

TS8 (MM-1) Date - December 05, 2015 Time - 12.45 PM (Venue - CC3, 5006)
Session Chair - Dr. Anupam Agrawal (IIIT Allahabad)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|-----------------------|---|---|--|
| 59 | Chandra Bhushan Kumar | NITTTR, Bhopal | VIDEO CONFERENCING SYSTEM FOR DISTANCE EDUCATION | Chandra Bhushan Kumar, Shefali Gupta and Dr. Anjali Potnis |
| 74 | Akshay K Kallianpur | M.S. Ramaiah Inst. of Tech., Bangalore | DIGITAL IMAGE WATERMARKING USING OPTIMIZED TRANSFORM-DOMAIN APPROACH | Akshay K Kallianpur, Bharath M V and Manikantan K |
| 86 | Adithya Alva | M.S. Ramaiah Inst. of Tech., Bangalore | Optimal Multilevel Thresholding Based on Tsallis Entropy and Half-life Constant PSO for Improved Image Segmentation | Adithya Alva, Akash R S and Manikantan K |
| 101 | Ashwini V. Malviya | Sipna College of Eng. and Tech., Amravati | Copy Move forgery detection using low complexity feature extraction. | Ashwini Malviya and Dr. Siddharth Ladhake |
| 137 | Yudhishtir Raut | SGSITS, Indore | Quality evaluation of HEVC compressed CT images | Yudhishtir Raut, R.S. Gamad and P.P. Bansod |
| 151 | Shiv Ram Dubey | IIIT Allahabad | Boosting Local Binary Pattern with Bag-of-Filters for Content Based Image Retrieval | Shiv Ram Dubey, Satish Kumar Singh and Rajat Kumar Singh |
| 51 | Soumendu Chakraborty | IIIT Allahabad | Performance Enhancement of Local Vector Pattern with Generalized Distance Local Binary Pattern for Face Recognition | Soumendu Chakraborty, Satish Kumar Singh and Pavan Chakraborty |

TS9 (EDC-1) Date - December 05, 2015 Time - 12.45 PM (Venue - CC3, 5007)

Session Chair - Dr. Arun Prakash (MNNIT Allahabad)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|------------------------|--|---|--|
| 66 | Samiksha Singh Chauhan | S.G.S. Institute of Technology and Science, Indore | A new design of OTA for Sigma-Delta ADC | Samiksha Singh and R. S. Gamad |
| 81 | J. Nageswara Reddy | CMR College of Eng. & Tech., Hyderabad | A Continuous-Time Delta-Sigma Modulator with Binary-DAC and 4-Bits Two-Step-ADC Quantizer in 45-nm CMOS | J. Nageswara Reddy, Miss. T.Swapna Rani and Dr.D. R. V. A. Sharath Kumar |
| 142 | Pankaj P. Prajapati | L.D. College of Engineering, Ahmedabad | Two Stage CMOS Operational Amplifier Design Using Partial Swarm Optimization Algorithm | Pankaj Prajapati and Dr. Mihir Shah |
| 178 | Yogesh Kumar | IIT BHU, Varanasi | A Programmable Error Tolerant Adder for Image and Audio Processing in Modern Day SoCs | Shubham Paliwal |
| 193 | Manoj Singh Adhikari | G B Pant Engineering College, Pauri | Simulation of Trench-based InGaAs LDMOSFET with Improved Performance | Manoj Singh Adhikari and Yashvir Singh |
| 242 | Dharmendra Prakash | Airports Authority of India, Varanasi | Overview of nano-Electronics Printing Techniques and Patterning Defects Detection | Abhishek Vikram, Vineeta Agarwal and Dharmendra Prakash |

TS10 (MM-2) Date - December 05, 2015 Time - 04.30 PM (Venue - CC3, 5006)

Session Chair - Dr. Pri sh Varadwaj (IIIT Allahabad)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|------------------|---|---|--|
| 183 | Abhay Kumar | Jaypee Institute of Information Technology, Noida | Voice Based Control Command Signal Generation for Intelligent System | Abhay Kumar |
| 211 | Debanjan Sadhya | IIT (BHU), Varanasi | An Improved and Robust Fusion Framework for Soft Biometric Traits | Debanjan Sadhya and Sanjay Kumar Singh |
| 273 | Vibhav Singh | IIT (BHU), Varanasi | An Efficient Content Based Image Retrieval for Normal and Abnormal Mammograms | Vibhav Singh, Ashim Gupta, Rajeev Srivastava and Shubham Singh |
| 288 | Ramashish Gaurav | IIT (BHU), Varanasi | Multimodal Subspace Learning on Flickr Images | Ramashish Gaurav, Ankit Vallecha, Mridula Verma and K K Shukla |
| 293 | Megha Lotankar | St. Francis Institute of Technology, Mumbai | Detection of Optic Disc and Cup from Color Retinal Images for Automated Diagnosis of Glaucoma | Megha Lotankar, Kevin Noronha and Jaya Sudha Koti |
| 322 | Divya Agrawal | CSIR, Chandigarh | Enhancing situation awareness by fusion of infrared and visible image using multiresolution transform | Divya Agrawal and Vinod Karar |

TS11 (EDC-2) Date - December 05, 2015 Time - 04.30 PM (Venue - CC3, 5007)

Session Chair - Dr. Arun prakash (MNNIT Allahabad)

| Paper ID | Presenter | Organization | Title | Authors |
|----------|------------------|--|---|--|
| 260 | Pragya Varshney | Netaji Subhas Institute of Technology, New Delhi | CCII based Half Integrator using Different Approximation Methods | Divya Goyal and Pragya Varshney |
| 269 | Vandana Shukla | Amity University, Lucknow | Application of CSMT Gate for Efficient Reversible Realization of Binary to Gray Code Converter Circuit | Vandana Shukla, O.P. Singh, G.R. Mishra and Dr. Raj Kumar Tiwari |
| 270 | Vandana Shukla | Amity University, Lucknow | A Novel Approach to Design a Redundant Binary Signed Digit Adder Cell Using Reversible Logic Gates | Vandana Shukla, O.P. Singh, G.R. Mishra and Dr. Raj Kumar Tiwari |
| 286 | Sandeep Rana | Graphic Era Hill University, Dehradun | Dual output Voltage Differencing Buffered Amplifier based Wave Active filter | Sandeep Rana, Ashok Kumar Kumawat and Pragati Kumar |
| 295 | Vangmayee Sharda | Amity University, Noida | Analysis of Graphene Nanoribbon (GNR) interconnects with Multi-gate Device Technology for VLSI Applications | Vangmayee Sharda and R. P. Agarwal |
| 341 | Rahul Sharma | GLA University, Mathura | A Low-Voltage, Low-Power Bulk-Driven Mixer using 0.18µm CMOS Technology | Rahul Sharma, Abhay Chaturvedi and Manish Kumar |

TS12 (PwrSys-1) Date - December 06, 2015 Time - 11.45 AM (Venue - CC3, 5054)

Session Chair - Dr. Asheesh K Singh (MNNIT Allahabad)

| Paper ID | Presenter | Organization | Title | Authors |
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|----------|-----------|--------------|-------|---------|

| 6 | Sulabh Sachan | IIT Roorkee | Influence of Optimally Placed TCSC on Social Welfare in Deregulated Market | Sulabh Sachan and C.P Gupta |
|---|-----------------------------|---|--|---|
| 104 | Krishna Caitanya | MVGR College of Engineering | Automation of street lights using Arduino & NI Lab View | Krishna Caitanya, Suresh Rejeti, Ravikumhar Kalamchety, Mahesh Mavuri and Chandrakala Mandarapu |
| 119 | Ashok Kumar Rajput | Meerut Institute of Eng. & Tech., Meerut | Estimating Post Conversion Electrical Energy From Solar Irradiance at Indore work station | Ashok Kumar Rajput, Sunil Kumar Goel and Praveen Kumar |
| 120 | Rohit Babu | Indian School of Mines, Dhanbad | Optimal Placement of Phasor Measurement Unit using Binary Particle Swarm Optimization in connected power network | Rohit Babu and Biplab Bhattacharyya |
| 205 | Pankaj Sahu | IIT (BHU), Varanasi | On-line Voltage Stability Monitoring and Control in Smart Grid- A Survey | Pankaj Sahu and M.K. Verma |
| TS13 (PwrSys-2) Date - December 06, 2015 Time - 12.45 PM (Venue - CC3, 5054) Session Chair - Prof. R. K. Shrivastva (IIT-BHU Varanasi) | | | | |
| Paper ID | Presenter | Organization | Title | Authors |
| 243 | C. Viswanatha | Central Power Research Institute, Bangalore | Evaluation of Thermal Status of SF6 Circuit Breaker at Rated Current | C Viswanatha, Mohanbabu Vasudeva and Rakesh K G |
| 248 | Satish Kumar | IIT (BHU), Varanasi | Large Power Network Signature Analysis with PMU Signal-Dynamic Clustering Approach | Rajendra Kumar Pandey, Satish Kumar and Chandan Kumar |
| 316 | P Srinath Rajesh | Adams Engineering College, Paloncha | Particle Motion Analysis of a 3-Ø Gas Insulated Substation Using SF6 -N2/ SF6-CO2/SF6-Air Gas Mixture | Mr P Srinath Rajesh and Dr M Suryakalavathi |
| 359 | Sheetanshu Mishra | IIT Kanpur | Indian Electricity Market: Present Status and Future Directions | Sheetanshu Mishra and Sn Singh |
| 360 | Krishna Kumar Singh Tomar | IIT Kanpur | Energy Management and Control of Microgrid using Multi-Agent Systems | Krishna Kumar Singh Tomar |
| PhD Symposium Date - December 06, 2015 Time - 10.30 AM (Venue - CC3, 5055) Chairperson - Prof. Sudeep Sanyal (IIT Allahabad) | | | | |
| Thesis ID | Presenter | Organization | Title | Authors |
| 501 | Mamta Chandraprakash Padole | The Maharaja Sayajirao University of Baroda | Distributed Approach To Pattern Matching in Genomics | Mamta Chandraprakash Padole |
| 502 | Somak Bhattacharyya | IIT Kanpur | Studies on Ultra-thin Microwave Metamaterial Absorber for Multiband and Wideband Applications | Somak Bhattacharyya |
| 503 | Biplab Das | NIT Silchar | MIXED CONVECTION HEAT TRANSFER FROM A SHROUDED FIN ARRAY WITH AND WITHOUT VORTEX GENERATOR | Biplab Das |
| 504 | Taimoor Khan | NIT Silchar | Analysis and Synthesis of Microstrip Antennas using Artificial Neural Networks | Taimoor Khan |
| 505 | S B Rudraswamy | IISc Bangalore | Design, fabrication and development of metal oxide semiconductor based gas sensor system for CO2 monitoring | S B Rudraswamy |
| 506 | G.V.E. Satish Kumar | MNNIT Allahabad | Sliding Mode Control of Voltage Source Inverter Based Higher Order Circuits and its Applications | G.V.E. Satish Kumar |
| 507 | Ponnaganti Pavani | IIT Kanpur | Economic and Stability Analyses of Optimally placed Distributed Generations in Distribution Systems | Ponnaganti Pavani |
| 508 | Sooraj K. Ambat | IISc Bangalore | Fusion of Sparse Reconstruction Algorithms in Compressed Sensing | Sooraj K. Ambat |