



## Technical Sessions

### Reliability Engineering & Optimization - I

**Chairs:** Prof. V K Sehgal, HOD, Bundelkhand University, Jhansi

**Co-Chair:** Dr. Deepak Kumar, AIIT, AUUP, India

September 20, 2017

1615-1745 hrs.

Parallel Session (I1 Room 303)

SI No	Paper ID	Author(s)	Paper Title
1	366	Yaqoob Al Rahbi, Rizwan S.M and Alkali B.M	Reliability Analysis of a Subsystem in Aluminium Industry Plant
2	148	Prabhpahul Singh and Ruchika Malhotra	Assessment of Machine Learning Algorithms for Determining Defective Classes in an Object-Oriented Software
3	205	Alexey Sorokin, Olga Filimonova, Vladimir Glukhov, Olga Miroljubova and Ulia Rodionova	Wire Material Electrical Parameters for the Inductor Technological Complex in Production of Plastic Molding
4	156	Zhang Kuiyuan, Li Jianping and Guo Erjian	Research on Channel Estimation Algorithm of MIMO Relay System Based on PARAFAC Model
5	161	Sumit Diware and Sharath B. Krishna	Iterative Parallel Shift Sort : Optimization and Design for Area Constrained Applications
6	197	Galina Akhmetzhanova, Albina Gazizulina, Dmitriy Antipov, Olga Antipova and Roman Sharov	Organizational Models of Teal Organizations
7	342	Swati Narang, Pk Kapur, D Damodaran and Ak Shrivastava	User-Based Multi-upgradation Vulnerability Discovery Model



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## Technical Sessions

### Soft Computing Techniques

**Chair:** Dr. Arun. Sharma, IGITWU, Delhi

**Co-Chair:** Dr. Varun Gupta, ASET, AUUP & Dr. Neetu Mittal, AIIT, AUUP

September 20, 2017

1615-1745 hrs.

Parallel Session (I1 Room 302)

Sl No	Paper ID	Author(s)	Paper Title
1	190	Evgeniy Konnikov, Olga Pogrebova, Yulya Maskova and Vladimir Glukhov	Real options valuation of additive production
2	119	Divya Singh	Implementation of Artificial Intelligence Cognitive Neuroscience Neuron Cell Using Adaptive Velocity Threshold Particle Swarm Optimization (AVT-PSO) On FPGA
3	198	Sergei Krasnov, Sergei Sergeev, Natalia Mukhanova and Arseny Grushkin	Methodical forming business competencies for private label
4	52	Kanchan Hans, Laxmi Ahuja and S. K. Muttoo	An Adaptive Neuro- fuzzy Inference System for Detecting Redirection Spam
5	200	Ekaterina Abushova, Ekaterina Burova, Svetlana Suloeva and Arina Shcheglova	Complex Approach to Selecting Priority Lines of Business by an Enterprise
6	227	Nandan Parameswaran and Piyush Maheshwari	Knowledge Structures in Elementary Textbooks



### Technical Sessions

## Human Computer Interaction and Internet of Things

**Chair :** Prof. (Dr.) S. K. Muttoo, DU, Delhi, India

**Co-Chairs:** Dr. Naresh Kumar, AIT, AUUP, India & Jitendra Pandey, MEC, Oman

September 20, 2017

1615-1745 hrs.

Parallel Session (I1 Room 301)

SI No	Paper ID	Author(s)	Paper Title
1	363	Richard Pankomera, Darelle Van Greunen and Alida Veldsman	Usability and usefulness in designing patient-centric systems in Afro-centric setting
2	6	Richa Chadha and Sunil Kumar Khatri	An IOT Based Smart Reservation System
3	256	Jitendra Pandey, Nafhath Rasheeda Rafiq, Ajay Vikram Singh and Sadia Fatima Mohammed	Classic from the Outside, Smart from the Inside: IoT Framework for Smart Buildings
4	14	Rahul Sharma, Nitin Pandey, Sunil Kumar Khatri and Iqra Hussain	Analysis of IoT Security at Network Layer
5	99	Neeraj Khera, Divya Shukla, Priya Sharma and Ishfaq Dar	Development of Microcontroller Based Lemon Ripening Condition Monitoring System
6	92	Siddharth Kalra, Sarika Jain and Amit Agarwal	Fixed DO Solfège based object detection and positional analysis for the visually impaired.



### Technical Sessions

## Modelling, Software Engineering and Testing

Chairs: Dr. Ruchika Malhotra, DTU, Delhi  
Dr. Mamta Mittal, JBPGECE, Delhi, India

September 20, 2017

1615-1800 hrs.

Parallel Session (II Room 310)

Sl No	Paper ID	Author(s)	Paper Title
1	209	Kirill Kireev, Vladimir Ermakov, Kseniy Kikkas, Arina Shcheglova, Dmitri Gasyuk and Ulyana Rodionova	Mathematical Modeling of Arc Extinction Process in Devices with Liquid-Metal Contact
2	85	Rana Majumdar, Shivam Barthwal, Abhishek Srivastava and Chetna Choudhary	Source Code Management Using Version Control System
3	207	Sergey Petrovski, Vladimir Kozlovski, Alexey Petrovski, Djamelay Skripnuk, Vladimir Schepinin and Evgenia Telitsyna	Intelligent Diagnostic Complex of Electromagnetic Compatibility For Automobile Ignition Systems
4	276	Khushboo Gupta and Kaushal Kishore	Modeling and Simulation of CEERI's Water Distribution Network to detect leakage using HLR Approach
5	210	Anton Gudkov, Dmitri Dadonov, Evgeni Krotkov, Olga Krasulina and Niko Akobiya	Research features of voltage static load characteristics in the electric system of Russia
6	103	Ruchika Malhotra and Anshu Khurana	Analysis of Evolutionary algorithms to improve Software defect prediction
7	234	Ivan Babkin, Alexander Babkin, Natalia Smolskaia and Irina Khrebtenko	Peculiarities of mechanism for implementation of public-private partnership in industry
8	144	Gunjan Jain, Meenal Jain and Gaurav Gupta	Design of Radix-4,16,32 Approx Booth Multiplier Using Error Tolerant Applications
9	173	Shashi Roshan, Biju R Mohan, Manish Kumar and Nikhil Vandanapu	Model Selection Among Log-Normal, Weibull, Gamma and Generalized Exponential Distributions



Technical Sessions

**Quality & Risk Analysis - I**

**Chair:** Dr. Dilip Sharma, GLA University, Mathura, India

**Co-Chair:** Dr. Ajay Vikram Singh, AIIT, AUUP, India

September 21, 2017

0900–1030 hrs.

Parallel Session (I1 Room 303)

Sl No	Paper ID	Author(s)	Paper Title
1	275	Khushboo Gupta and Kaushal Kishore	Quality Assessment and Drift Analysis of IoT enabled Ammonia Sensor
2	285	Adityan Jothi, Shrinivas Jayaram, Yogesh . and Dr Ashwani Kumar Dubey	Intra-Ocular Lens Defect Detection using Generalized Hough Transform
3	202	Anton Gudkov, Dmitriy Dadonov, Evgeniy Krotkov, Vladimir Shchepinin, Nikolay Didenko and Vladislav Parkhomenko	Thermal wear of cable lines isolation research owing to current flow of the high harmonics at oil extraction electrical generating systems
4	104	Vikramadiya Agarwal, Akshay Sahai, Akshay Gupta and Nidhi Jain	Human Identification and Verification based on Signature, Fingerprint and Iris Integration
5	279	Sai Satish Inala and Pushpalatha Pondreti	Relative Performance of Multipliers: A Fault Tolerance Perspective for Parallel FFTs



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## Technical Sessions

### Data Analytics - I

**Chair:** Prof. (Dr.) Vishal Bhatnagar, AIARC, GGSIN, India

**Co-Chair:** Dr. Mayank Sharma, AIIT, AUUP, India

September 21, 2017

0900–1030 hrs.

Parallel Session (I1 Room 302)

Sl No	Paper ID	Author(s)	Paper Title
1	322	Sharad Rohra, Tanay Dangayach and Mohit Tyagi	Analyzing Barriers To Sustainable Dairy Supply Chain Using Preference Rating Approach
2	349	Karishma Varshney, Rahul Johari and R.L Ujjwal	Bidur: Big Data Analysis In UAF Using R-Voting System
3	325	Parul Shrivastava, Dr. Umesh Lithore and Prof. Nitin Agrawal	Genetic Approach Based Image Retrieval By Using CCM And Textual Features
4	335	Kamalpreet Bindra and Anuranjan Mishra	A Detailed Study Of Clustering Algorithms
5	353	Siddharth Choudhary and Vinita Shadangi	Content-Based Image Retrieval (CBIR) Based On SVM And Elasticsearch
6	61	Seema Rawat, Kirti Vashist, Praveen Kumar and Sunil K. Khatri	Predictive Model For Data Availability In Big Data Processing



**Technical Sessions**

**Mobile Technologies, Power Systems and Embedded Systems**

**Chair:** Prof. (Dr.) Prabhakar Tiwari, GCET, Gr. Noida, India

**Co-Chairs:** Dr. Anil Shukla, AITEM, AUUP, India

**September 21, 2017**

**0900–1030 hrs.**

**Parallel Session (I1 Room 301)**

SI No	Paper ID	Author(s)	Paper Title
1	147	Medha Khurana, Neetu Faujdar and Shipra Saraswat	Hybrid bucket sort switching internal sorting based on the data inside the bucket
2	358	Vasudha Sharma and Vijay Kumar Tayal	Hardware Implementation of Sun Tracking Solar Panel Using 8051 Micro-Controller
3	361	Rama Murthy Garimella and Rhishi Pratap Singh	Time Optimization in Spectrum Sensing: Interesting Cases
4	108	Rahul Verma and Shipra Singh	Design and Analysis of Symmetrical Notch S Shape Patch Antenna for Wideband Applications
5	321	Ankit Goel, Sachin Kumar, Shobhit Saxena and Rahul Tiwari	Single Layer Proximity Fed Microstrip Patch Antenna for Circularly Polarized Dual Band Wireless Applications
6	323	K Ganesh and P Pushpalatha	Implementation of a High-Speed Pipelined FFT Processor using Dadda Multipliers to Process Two Independent Data Streams
7	355	Pradnya Chitrao and Pravin Kumar Bhojar	Technology for Affordable, Inclusive, and Efficient Healthcare— Case Study of AmbuPod





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## Technical Sessions

### Cloud Computing

**Chairs:** Dr. Deepti Sharma, IILM-CET, Gr. Noida, India

**Co-Chair:** Dr. Nitin Pandey, AIIT, AUUP, India

September 21, 2017

1700–1830 hrs.

Parallel Session (I1 Room 303)

SI No	Paper ID	Author(s)	Paper Title
1	88	Himanshu Ahuja, Poorva Rathi and Kavita Pandey	Rule Based Trust Evaluation Using Fuzzy Logic in Cloud Computing
2	326	Deepti Sharma	Security Model of Ad hoc Cloud Computing
3	351	Neha Solanki and Rajendra Kachhwaha	Energy Efficient Strategy for Cloud based Big Data
4	289	Mohammed Al Rasbi and Ajay Vikram Singh	Need and Scope of Private Cloud Technology for Public Authority for Radio & Television in Oman
5	280	Abdul Raof Wani, Q.P Rana and Nitin Pandey	Cloud Security Architecture Based on User Authentication and Symmetric Key Cryptographic Techniques
6	330	Anjum Zameer Bhat ,Baldev Singh and Ajay Vikram Singh	Learning Resources as a Service (LraaS) for higher education institutions in Sultanate of Oman





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### Technical Sessions

## Image Processing Techniques - I

**Chair:** Prof. (Dr.) Priya Ranjan, ASET, AUUP, India

**Co-Chair:** Dr. A. K. Dubey, ASET, AUUP, AIIT

September 21, 2017

1700–1830 hrs.

Parallel Session (I1 Room 302)

Sl No	Paper ID	Author(s)	Paper Title
1	252	Shipra Saraswat, Utkarsh Awasthi and Neetu Faujdar	Malarial Parasites Detection in RBC using Image Processing
2	47	Neetu Mittal, Arjun Sehgal and Sunil Kumar Khatri	Enhancement of historical documents by Image processing techniques
3	121	Richa Singh, Ashwani Dubey and Rajiv Kapoor	Up sampling of an Image Using Convolution Method
4	300	Nikita Joshi, Sarika Jain and Amit Agarwal	Segmentation based Non Local Means Filter for Denoising MRI
5	134	Yogesh ., Dr Ashwani Kumar Dubey, Rajeev Arora and Ashad Ahmed	A Comparative Review of Various Segmentation Methods and its Application
6	328	Sudhriti Sengupta and Neetu Mittal	Analysis of various techniques of feature extraction on skin lesion images



### Technical Sessions

## Reliability Engineering & Optimization - II

**Chair:** Prof. (Dr.) Prashant Johri, GITM, Gr. Noida, India

**Co-Chair:** Dr. Sonali Vyas, AUR, India

September 22, 2017

0900 – 1045 hrs

Parallel Session (I1 Room 303)

SI No	Paper ID	Author(s)	Paper Title
1	208	Vladimir Kozlovski, Michail Shakurskiy, Vladimir Ermakov, Nataliy Konakhina and Arseniy Grushkin	Covert Communication Device For Electrotechnical Systems Based On Invariant Transform
2	294	Dumpa Naveen Kumar and Leela Kumari Balivada	Performance Analysis of Estimators Using PSO for Multi Target Tracking
3	298	Ushaben Keshwala, Nivedita Nair and Sahana Parvin Muquit	Optimisation of circular monopole UWB antenna using the concept of Golden ratio
4	308	Neha Gandhi, Neha Gondwal, Anu G. Aggarwal and Abhishek Tandon	Estimating Reliability for OSS: An approach with Change-point in Operational Phase
5	352	Ruchi Agarwal, C. S. Salimath and Khursheed Alam	Wavelet Based Approaches in Optimization Theory and Practice
6	172	Kavya Gupta, Tanay Dangayach, Girish Kumar and Piyush Gupta	Disassembly Index Evaluation of Automotive Systems Using Graph Theory and AHP



### Technical Sessions

## E-Governance and Social Engineering

**Chair:** Dr. Ali Salemomar, MEC, Oman & Vipul Tuli, Tech Mahindra

**Co-Chair:** Dr. Laxmi Ahuja, AIIT, AUUP, India

September 22, 2017

0900–1045 hrs.

Parallel Session (I1 Room 302)

Sl No	Paper ID	Author(s)	Paper Title
1	192	Vladimir Shchepinin, Valery Leventsov, Boris Zabelin, Evgeniy Konnikov and Elena Kasianenko	The content aspect of the tendency to reflect the actual result of management
2	232	Duaa Al-Sabti, Ajay Vikram Singh and S. K. Jha	Impact of Social Media on Society in a Large and Specific to Teenagers
3	60	Alpana Kakkar, Sihaan Naushad and Sunil Kumar Khatri	Telemedicine and EHR Integrated Approach for an Effective E-Governance Healthcare Framework
4	340	Ali Salemomar, Shaik Mazhar Hussain and Ajay Vikram Singh	The Power of Networking : Bridging the Gap between HE Students and Entrepreneurs in Oman
5	249	Shaik Mazhar Hussain, Maryam Mubarak Mohammed Al Balushi, Ali Salem Omar, Ajay Vikram Singh and Chandrashekar Ramaiah	E-Learning Tools to Enhance Student Learning Experience A Practice on Control System Engineering
6	97	Ashu Jain, Sanjeev Dhawan and Kulvinder Singh	An Assessment of Feature Selection Based Mechanism to Recommend Friends in Online Social Networks
7	257	Yusra Alsaidi, Ajay Vikram Singh and SK Jha	Evaluation of Job Satisfaction in Food Manufacturing Sector in Oman
8	123	Neeraj Khera, Divya Shukla, Jagot Khokhar and Vipul Kumar	Development of Web Based Parameter Monitoring of Milk
9	266	Mohammed Al-Adhoobi, Manju Jose and Ajay Vikram Singh	A Review of Different Road Safety Measures and Enforcements: Road Safety Enforcement
10	194	Vasily Makarov, Olga Novikova and Anastasia Tabakova	Energy efficiency in “green construction”: experience, issues, trends
11	267	Mohammed Al-Adhoobi, Manju Jose and Ajay Vikram Singh	A Review of International Practices of Road Safety Audits: Road Safety Audits and Reviews



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## Technical Sessions

### Information Theory & Networking

**Chairs:** Prof. Deepshikha Bhargava, AIIT, AUR, India

**Co-Chair:** Dr. J. S. Jadon, AITEM, AUUP, India

September 22, 2017

0900 – 1045 hrs.

Parallel Session (I1 Room 301)

Sl No	Paper ID	Author(s)	Paper Title
1	178	Mohamed Mohamed, Prajwol Dandekhya and Axel Krings	Beyond Passive Detection of Sybil Attacks in VANET
2	320	Ganesh Kumar Wadhvani, Sunil Kumar Khatri and Sunil Muttoo	Trust Modeling for Secure Route Discovery in Mobile Ad-hoc Networks
3	297	Aleem Ali	An Analytical Model for Performance Analysis of Mobile Ad hoc Network Using Queueing Approach
4	138	Sandeep Kaur and Deepali Goyal	An Automatic Irrigation System For Different Crops With WSN
5	265	Sachin Khade and Pallavi Bire	Fractal Antenna for WLAN Application
6	302	Dr Mayank Sharma	Arithmetic Coding Based String Approximation
7	319	Tanisha Gahlawat, Parul Kalra and Deepti Mehrotra	The Relationship between User Preferences in Interactive Information Retrieval Evaluation
8	337	Kumari Nidhi Lal and Anoj Kumar	E-Health application using network coding based caching in Information-centric Networking (ICN)



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## Technical Sessions

### Quality & Risk Analysis - II

**Chair:** Dr. V. B. Singh, DCSE, DU, Delhi

**Co-Chair:** Dr. Alpana Kakkar, AIIT, AUUP, India

September 22, 2017

1200–1330 hrs.

Parallel Session (I1 Room 303)

Sl No	Paper ID	Author(s)	Paper Title
1	203	Lev Khabachev, Ulyana Plotkina, Tatyana Bugaeva and Anastasia Yurkova	Assessment of systemic effects from integration of distributed generation facilities into regional energy systems
2	195	Yuri Klochkov, Elena Klochkova, Irina Krasnyuk, Sergey Krymov, Dmitriy Gasyuk and Niko Akobia	An Approach to Decrease the Risk of Losing Customers
3	150	Vikas Pandey, Utpal Rabha, Gayatri Pandit and Swapnil Sabde	Uncovering the Latent Defects in Dimming Control Devices by Introducing Application Specific Stress Profile in HALT - A Case Study
4	191	Evgeniy Konnikov, Oksana Yuldasheva, Olga Pogrebova, Irina Trefilova, Julia Solovjova and Alina Furtatova	Influence of firm's marketing capacity and its strategic integration ability on the innovative performance
5	56	Himanshu Gupta and Desire Afewou	A Trust Model for Security and Privacy in Cloud Services
6	158	Priyanka Wadhawan, Manoj Kumar Singh, Anuradha Mayya and P.P. Marathe	Comparison and Failure Mode Analysis of Current Signature Based Relay Health Monitoring Schemes
7	201	Evgeniy Ozerov, Svetlana Pupentsova, Valery Leventsov and Maksim Dyachkov	Selecting the best use option for assets in a corporate management system



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## Technical Sessions

### Data Analytics - II

**Chair:** Dr. Bharti Suri, GGSIPU, Delhi

**Co-Chair:** Dr. Himanshu Gupta, AIT, AUUP, India

September 22, 2017

1200–1330 hrs.

Parallel Session (I1 Room 302)

Sl No	Paper ID	Author(s)	Paper Title
1	109	Mario José Diván, María Laura Sánchez Reynoso, Fabiana Veralli and Mariana Ostoich	Experiences In The Business Process Modelling At Public Organisms Of La Pampa
2	45	Kritika Ahuja, Sunil Kumar Khatri and Prashant Johri	Crime Prediction Using Supervised Machine Learning
3	350	Iti Burman, Subhranil Som and Mayank Sharma	Enhancing Student Learning Behaviour Using EDM And Psychometric Analysis
4	185	Parul Kalra, Deepti Mehrotra and Tanisha Gahlawat	Diagnosis Of Diabetic Nature Of A Person Using SVM And ANN Approach
5	269	Deeksha and Shashank Sahu	Finding Similarity In Articles Using Various Clustering Techniques
6	311	Nidhi Chandra, Sunil Kumar Khatri and Subhranil Som	Anti-Social Comment Classification Based On KNN Algorithm





### Technical Sessions

## Cyber, Information & Network Security

**Chair:** Dr. A. K. Mohapatra, IGDTUW, Delhi

**Co-Chair:** Dr. Subhranil Som, AIIT, AUUP, India & Dr. Praveen Kumar, ASET, AUUP

September 22, 2017

1200–1330 hrs.

Parallel Session (I1 Room 301)

Sl No	Paper ID	Author(s)	Paper Title
1	233	Kai Cao, Jing He, Wenqing Fan, Wei Huang, Lei Chen and Yue Pan	PHP Vulnerability Detection Based on Taint Analysis
2	248	Shivangi Gupta and Sunil Kumar Chowdhary	Authentication through Electrocardiogram Signals based on Emotions- a Step towards ATM Security
3	12	Sandeep Kumar, Renuka Mahajan, Naresh Kumar and Sunil Kumar Khatri	A Study on Web Application Security and Detecting Security Vulnerabilities
5	68	Rana Majumdar, Prakhar Kaushik, Abhishek Srivastava and Dev Kumar Chaudhary	Timing Attack Analysis on AES on Modern Processors
6	153	Naina Arya and Sonam Devgan Kaul	Code Based Threshold Scheme on Group Key Transfer Protocol for WSN's
7	231	Neha Guliani, Dr Ashwani Kumar Dubey, Zainul Abdin Jaffery and Dr. Manoj Kumar Shukla	Analysis of Multimodal Biometric Recognition Using Iris and Sclera





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## Technical Sessions

### Image Processing Techniques - II

**Chair:** Prof. Piyush Maheshwari, Amity University Dubai

**Co-Chair:** Dr. Sarika Jain, AIIT, AUUP, India

September 22, 2017

1200–1330 hrs.

Parallel Session (I1 Room 310)

Sl No	Paper ID	Author(s)	Paper Title
1	135	Yogesh ., Dr Ashwani Kumar Dubey, Rajeev Arora and Shivkant Yadav	A Review and Comprehensive Comparison of Image Denoising Techniques
2	339	Yogesh , Ashwani Kumar Dubey, Priyanshi Singhal and Ayush Goyal	A Comparative Approach for Image Segmentation to Identify the Defected Portion of Apple
3	32	Neetu Mittal, Sudhir Tanwar and Sunil Kumar Khatri	Identification & Enhancement of different skin lesion Images by Segmentation techniques
4	95	Yogesh ,Ashwani Kumar Dubey, Tanmaya Vyas and Mayank Thukral	Segmentation Techniques for External Defect Detection in Pome Fruits
5	38	Pranshu Pandey, Sarika Jain and Sunil Kumar Khatri	Enhancement of medical images using Kalman filter