

International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2013)

Jan 29-31, 2013

Technical Sessions

Optimization Techniques-1

Chair: Prof. V K Sehgal

January 30, 2013

04:00 pm – 05:30 pm

Parallel Session (C-Block Auditorium)

S. No.	Paper#	Authors	Title
1	17	Manish Verma	An Expected Consequence Approach to Railroad Transportation of Hazardous Materials
2	49	Pk Chattopadhyaya, Sk Basu and Mc Majumdar	Solving Fault Tree using Binary Decision Diagram Method
3	79	H D Arora, Vijay Kumar and Anjali Dhiman	On Some New Divergence Measure between Fuzzy Sets
4	178	Shivraj Pundir and Anuradha Tanwar	Optimal Lot Size for Deteriorated Items with Exponential Demand Rate under Trade Credit Policy
5	190	Shailendra K Bharati and Shiva R Singh	Solving multi objective linear programming problems using intuitionistic fuzzy optimization method: a comparative study
6	32	Manish Verma and Atiq Siddiqui	Maritime crude oil delivery scheduling
7	166	Pankaj Pratap Singh, Ram Bhushan Agnihotri and Monika Sharma	A Probabilistic Data Association Filtering (PDAF) based Tracking Approach to Detect Maneuvering Target

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Technical Sessions

Optimization Techniques-2

Chair: Prof. C K Jaggi

January 31, 2013

12:00 noon – 01:15 pm

Parallel Session (A-Block Auditorium)

S. No.	Paper#	Authors	Title
1	89	Jingkuan Li, Fan Min and William Zhu	Fast Randomized Algorithm for Minimal Test Cost Attribute Reduction
2	96	Jitendra Singh and Sanjay Dwivedi	A comparative study on approaches of Vector space model in information retrieval
3	99	Zeenat Zaidi and Yogesh Goyal	Mathematical Analysis and Availability of the Pulping System in the Paper Industry
4	165	Abhishek Narkhede, Dinesh Bhoyar, Milind Mushrif and C Dethé	Bit Error Rate (BER) Comparison Of Different Channel Estimation Algorithms In QPSK MIMO-OFDM System
5	80	H D Arora, Vijay Kumar and Anjali Dhiman	Weighted Performance Function for (r, s)-Entropy of Discrete Memoryless Communication Channel under Single Constraint

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Technical Sessions

IT Applications-1

Chair: Prof. Deepti Mehrotra

January 29, 2013

02:00 pm – 03:15 pm

Parallel Session (F-2 Auditorium)

S. No.	Paper#	Authors	Title
1	30	Neetika Jain and Shaily Jain	Exploiting Locality for Multi-Processor using Shared Cache
2	33	Neeraj Khera and Sumit Balguvhar	DEVELOPMENT OF A SIMPLE MICROCONTROLLER BASED REAL-TIME DATA ACQUISITION AND ALERT SYSTEM IN LabVIEW ENVIRONMENT.
3	45	Bhaumik Bhatt	MIDI Drum Control using Piezo-electric transducers
4	54	Sunil Kumar Khatri and Shruti Nagpal	ERP Health Assessment Model commensurate with ERP Success Factor Rate Metric
5	90	Nripendra Das	Crawler Based Web Search Engine and Comparison with Other Search Engines
6	94	Shatrughna Prasad Yadav and Shashi Bhushan Sharma	Computational Electromagnetics for Reflector Antenna Applications- A Review
7	95	Pankaj K. Goswami and Sanjay K Dwivedi	System architectures of Multi-Engine Machine Translation (MEMT): A study
8	231	Dolly Sharma and Shamita Malik	Reconstructing Phylogenetic Networks with Recombinations: A Survey

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Technical Sessions

IT Applications-2

Chair: Prof. M N Hoda

January 30, 2013

04:00 pm – 05:30 pm

Parallel Session (F-2 Auditorium)

S. No.	Paper#	Authors	Title
1	101	Sarla More, Dr. Durgesh Kumar Mishra and Prof Vijay More	Review on Automatic Image Annotation
2	105	Swati Rustogi and Richa Singh	4G and M-commerce
3	110	Sumit Kumar, Dr. Dilip Kumar Yadav and Dr. Danish Ali Khan	Data Flow Based Test Data Generation Using Genetic Algorithm
4	112	Kalika Patrai and Indu Uprety	Application of Fuzzy Logic to Degradable Computing Systems
5	123	Ahmed Reja	A Review of Tunable Metamaterial Microwave Filters
6	124	Sandeep Ganorkar, Shantanu Lohi, Harish Gorewar and Ravindra Jogekar	Efficient Implementation of Wireless Data Glove for Gesture Recognition System
7	141	Sharmili N, Seetha Ramaiah P and Swapna N	Embedded Vision for Epi-retinal Prosthesis
8	219	Deepak Kumar and Saru Dhir	A role of Non-Functional Computing in Software Engineering
9	225	Neetu Gupta and Ashutosh Gupta	Detection and Generation of logs about a deadlock in a java based application

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Technical Sessions

Reliability Engineering-1

Chair: Dr. Bharti Suri

January 29, 2013

02:00 pm – 03:15 pm

Parallel Session (C-Block Auditorium)

S. No.	Paper#	Authors	Title
1	247	Ompal Singh, Jyotish N P Singh, Anshul Tickoo and Parmod Kumar Kapur	Fault Removal Phenomenon using Different Distribution Functions for Each Release
2	100	K. K. Chaturvedi and Dr. V.B. Singh	Study on Bug Prediction using the Complexity of Code Changes
3	251	Pramod Kapur, Anu Gupta Aggarwal and Avinash Kumar Shrivastava	Discrete Unification Scheme Based Software Reliability Growth Modeling
4	227	Kamaldeep Kaur, Sunil Kumar Khatri and Rattan Datta	ANALYSIS OF STATISTICAL USAGE TESTING TECHNIQUE WTH MARKOV CHAIN MODEL
5	74	Remya Haridasan	Safety Analysis of 2oo4 Coincidence Logic Systems
6	83	Ompal Singh, Adarsh Anand, Deepti Aggrawal and P K Kapur	Fault Severity Based Development of Multi-Release SRGM under the Influence of Testing Resources

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Technical Sessions

Reliability Engineering-2

Chair: Dr. Ompal Singh

January 31, 2013

12:00 noon – 01:15 pm

Parallel Session (C-Block Auditorium)

S. No.	Paper#	Authors	Title
1	246	Parmod Kapur, Jyotish N P Singh, Nitin Sachdeva and Vijay Kumar	Application of Multi Attribute Utility Theory in Multiple Releases of Software
2	183	K. K. Chaturvedi, Meera Sharma and Dr. V.B. Singh	Severity prediction of bug report in cross project context
3	182	Shweta Singhal and Bharti Suri	Understanding the Effect of Time-Constraint Bounded Novel Technique for Regression Test Selection and Prioritization
4	153	Deepa Gupta	A Test Generation Strategy For Constrained Testing
5	92	Ravi Shankar Sinha	RELIABILITY CENTERED MAINTENANCE OF CONE CRUSHER: A CASE STUDY
6	252	Adarsh Anand, Jagvinder Singh, Avneesh Kumar and Sunil Kumar Khatri	A Discrete Formulation of Successive Software Releases Based on Imperfect Debugging

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Technical Sessions

Data Communications -1

Chair: Sh. R K Vyas

January 30, 2013

09:30 am – 11:00 am

Parallel Session (F-2 Auditorium)

S. No.	Paper#	Authors	Title
1	39	Varsha Nemade and Rajnikant Wagh	A Novel Approach for Image Cryptography Using Chaotic Function and Genetic Algorithm
2	42	Ganapati Das and Anjan Das	Mining Association Rules in Wireless Sensor Networks: A Survey
3	52	Madhumita Kathuria and Sapna Gambhir	Layer Wise Issues of Wireless Body Area Network: A Review
4	127	Anshu Chaturvedi	Impact of Malicious Node in MANETs
5	161	Sachin Khade and Sanjay Badjate	Yagi Uda Antenna with Integrated Balun for WLAN Application
6	248	Dolly Sharma and Upasana Sharma	An experimental comparison of the Link Prediction techniques in social networks
7	256	Rashid Sheikh and Durgesh Kumar Mishra	Fourth Factor Authentication using Encrypted Vouchcode

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Technical Sessions

Data Communications -2

Chair: Dr. P K Jain

January 31, 2013

12:00 noon – 01:15 pm

Parallel Session (F-2 Auditorium)

S. No.	Paper#	Authors	Title
1	53	Madhumita Kathuria and Sapna Gambhir	Security and Privacy Assault of Wireless Body Area Network System
2	61	Subhash Chander Jaglan and Ashwani Kush	Security metrics and e-governance portals of Haryana
3	97	Pradip Maibam and Moirangthem Marjit Singh	A SURVEY ON RELIABLE DATA TRANSFER PROTOCOLS FOR WIRELESS SENSOR NETWORKS
4	119	Kanchan Hans, Dr. Laxmi Ahuja and Dr. S. K. Muttoo	Survey of Anti Spamming Techniques for World Wide Web
5	126	Ammar Khader	Spectrum Sensing and Cognitive Radio for Wireless Signals

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Technical Sessions

Quality Management/Control

Chair: Dr. Manish Verma

January 31, 2013

03:00 pm – 04:00 pm

Parallel Session (C-Block Auditorium)

S. No.	Paper #	Authors	Title
1	114	Dinesh Kumar Saini, Moinuddin Ahmad and Wail M Omar	Framework for Managing Global Computing Resources
2	81	Hassan Sardar	Color based quality analysis of fruits for automatic grading
3	87	Ankur Aggarwal and Dr. S.Q Abbas	Design of a User Product Interaction Framework for Extended Quality in Use
4	209	Sugam Sharma, Hari Cohly, Durgesh Samadhiya and Manoj Nainwal	Automated Randomized Mobile Sensors with Body Area Network Assisting Affordable Smart Healthcare Systems
5	93	Sanad Al Maskari, Dinesh Kumar Saini and Tony Chiffings	Data Management Issues and Data mining of Real Time System Application for Environment Monitoring
6	254	Dr Bhawna Garg	A New and Simple Approach to use Chi-Square Test (Modified Chi Square Test).

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Technical Sessions

Cloud Computing

Chair: Prof. Abhay Bansal

January 31, 2013

03:00 pm – 04:00 pm

Parallel Session (F-2 Auditorium)

S. No.	Paper#	Authors	Title
1	31	Prateek Jain and Uma Shankar Pandey	A Model Based on Reusability of Component Repository: Cloud Computing Reusability Model
2	40	Ms. Monica Gahlawat, Ms. Pratik Sanjva and Dr. Priyanka Sharma	Analysis of Workload-aware Initial Virtual Machine Allocation and First Fit Allocation in Cloud Environment using CloudSim
3	146	Uday Moghe and Prashant Lakkadwala	Cloud Computing: Systematic Study of CPU Utilization, CloudSim
4	152	Deepti Sharma	Service Level Agreement for implementing ad hoc cloud computing
5	224	Deepak Kumar, Tabish Mufti and Suhani Bansal	Overview of Resource Optimization Techniques in Data Migration in Cloud computing

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Technical Sessions

Data Communications (S)

Chair: Mr. Marjit Singh

January 30, 2013

09:30 am – 11:00 am

Parallel Session (C-Block Auditorium)

S. No.	Paper #	Authors	Title
1	2	Ankur Nayak and Rajeev G Vishwakarma	EDSR- A New Approach to Enhance the Reliability of DSR Protocol for Mobile Ad-Hoc Networks
2	10	Pratibha Jagnere and Priti Jagwani	Internet is Flattening: Changing Face of Internet Architecture
3	37	Sachin Tamboli, Sitendra Tamrakar and Sachin Tamboli	VOIP communication and Data storage in wireless GSM modem over MANET area
4	68	Devanshu Chandra	An Effective Convergence Model for Pre-paid and Post-paid Cellular Network
5	106	Yogesh Kale, Abhijit Bapat and Prasanna Zade	Wireless Sensor Network and Emergency Convey System for Fire Safety
6	120	Santosh Singh, Vinesh Jain and R Rathi	Speech Quality Measurement in Voip Using E-model
7	122	Akshita Sharma and Prashant Lakkadwala	A Survey on Data Centric Routing Protocol and their Performance Analysis
8	130	Ajeet Singh Verma, Arvind Kumar Jaiswal and Mukesh Kumar	Synchronization Techniques for high bit-rate Transmission in Coherent OFDM Networks
9	131	Deepika Thakral and Reema Goyal	A Confidentiality approach for LEACH protocol
10	137	Rajan Sharma, Ajay Vikram Singh, Sanjeet Kumar Singh and Vibhor Jain	Solving Real World Traffic Problem With Next Generation Network
11	140	Pranjali Jumle and Prasanna Zade	Design of Parallel Coupled Microstrip Bandpass Filter for Wireless Communication
12	148	Vijendra Mishra and Gaurav Chaitanya	A Survey Paper on Adaptive Beam Forming Algorithms in Smart Antenna
13	150	Vaishali Jain and Nayyar Ahmad Khan	A Survey on Routing Techniques of Data-Centric Wireless Sensor Protocol
14	175	Soni Kumari, Rakesh Yadav and Om Jee Gupta	A Survey on Energy Efficient Medium Access Control for Wireless Sensor Networks
15	207	Pinki Nayak and Bindu E	On Energy Consumption of Routing Protocols in Mobile Ad-Hoc Networks
16	212	Diksha Deo and Sunil Kumar Khatri	Web Intelligence: Enhancement of Web Semantics Based Applications

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Technical Sessions

Data Mining (S)

Chair: Dr. Deepti Sharma

January 31, 2013

03:00 pm – 04:00 pm

Parallel Session (A-Block Auditorium)

S. No.	Paper#	Authors	Title
1	25	Monika Mishra and Ankita Naskar	Using Cloud Computing to Provide Data Mining Services
2	29	Swapnil Dabhade, Arun Babhulgaonkar, Sonali Bharad and Pooja Dange	Prediction of Career Status of Students Using ID3 Algorithm
3	35	Karishma Dixit and Dr. Sanjeev Kumar Sharma	Automatic Indian Sign Language Recognition System
4	41	Ayushi Gupta	Comparisons Among Data Mining Algorithms
5	43	Mittu Mittal	A New Approach: Based on Decision Trees for Image Data Mining and Segmentation
6	58	Nripendra Das and Shivani Gupta	A Comparative Analysis of Link Oriented Algorithms of Web Mining on a Dataset
7	111	Nripendra Das	A Comparative Analysis of Different Classification Techniques using WEKA
8	158	Gauri Tagunde, Chitrakant Banchhor and Nilesh Uke	Implementation of Road Traffic Sign Detection from real-time videos or Images

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Technical Sessions

Cloud Computing (S)

Chair: Prof. R K Kapur

January 29, 2013

02:00 pm – 03:15 pm

Parallel Session (A-Block Auditorium)

S. No.	Paper#	Authors	Title
1	62	Akanksha Varshney	Cloud Security – Ifs and Buts
2	157	Reshmi Rajan and Shabina Ghafir	Secured Cloud Communication model with Quantum based SSL and Identity Authentication
3	163	Ritu Sharma and Ajay Rana	Cloud Computing –Concepts, Architecture and Security Challenges
4	181	Prosenjit Shaw, Partha Sarathi Paul and Debasish Jana	Modelling Sales and Distribution Business Case on Cloud Infrastructure
5	185	Partha Sarathi Paul, Debasish Jana and Shibaji Sanyal	Field Sales Force Automation (SFA) on Cloud
6	211	Ritika Ritika, Ishita Agrawal and Durgesh Samadhiya	Analysis of Cloud Computing Security
7	261	Sunil Kumar Khatri, Himanshu Singhal and Khushboo Bahri	Multi-Tenant Engineering Architecture in SaaS

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Technical Sessions

IT Applications (S)
Chair: Dr. V B Singh
January 30, 2013

09:30 am – 11:00 am

Parallel Session (A-Block Auditorium)

S. No.	Paper#	Authors	Title
1	63	Heena Ahuja, Aarti Suri and Dipti Bhatt	HELIODISPLAY
2	86	Aruna Verma	DNA COMPUTING
3	103	Katuri Aditya and Gunda Sujith	Computer Forensic Directions In Cyber Crime
4	118	Chahat Saini, Rohit Singh and Purushottam Sharma	ERP AS A BUSINESS INTELLIGENCE TOOL
5	135	Sakshi Rai and Sitendra Tamrakar	Survey of Image De-noising Techniques Based on Soft Computing & Wavelet Transform: A Review
6	138	Shalini Bisht, Richa Jain and Kanchan Hans	comparative analysis of android and symbian operating system
7	143	Abhishek Agrawal, Ritika Gupta and Upasna Sharma	N-Layer S/W development and Information Security Thread In N-Layer Architecture Using SQL-Injection And Prevention By Store Procedures.
8	162	Pranjal Bansal, Rakesh Rathi, Vinesh Jain and Taruna Khemwani	Review: Joining and Flushing Techniques in Online Join-Query Environment
9	171	Aditya Kumar and Sanjay Kumar Dubey	PKCS#11 Wrapper for Java
10	196	Sonam Gulyani, Akash Goel, Astha Pahuja and Dr.S.K Khatri	Sixth Sense Technology
11	206	Abhishek Bhatia, Himanshu Sharma and Tanya Singh	MITIGATING XSS ATTACKS
12	210	Vishal Beotra and Durgesh Samadhiya	BrainWave Entrainment: Tool to Improve efficiency at workplace
13	228	Priyanka Tayal and Alpana Kakkar	Information Security in Healthcare Sector
14	230	Vaibhav Saxena	WHAT IS CAPTCHA? CAPTCHAs FUTURE SCOPE
15	232	Diksha Kochhar and Dr. Alpana Kakkar	IT Risk: Threat to Business Continuity
16	235	Vivek Kathayat, Bharat Razdan and Durgesh Samadhiya	LOG ANALYSIS IN VIRTUAL ENVIRONMENT
17	240	Ms Rupali Rohankar and Ms Shreya Sharma	SMP scheduling using genetic algorithms
18	241	Mufti Usman Farooqi	Inside View Of Google Dorking
19	147	Sweta Parkhedkar and Yogita Dubey	Brain Tumour Detection of MR Images using Intuitionistic Fuzzy Sets

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Technical Sessions

Mathematical Modeling/Optimization Techniques (S)

Chair: Dr. Deepak Kumar and Dr. Vijay Kumar

January 30, 2013

04:00 pm – 05:30 pm

Parallel Session (A-Block Auditorium)

S. No.	Paper#	Authors	Title
1	11	Pratibha Jagnere and Aruna Bansal	Road Traffic Simulation- a Discrete Event Driven Model
2	27	Mayuresh Pardeshi and Bashirahamad Momin	Determining need for CNF to DNF conversion by implementing polynomial algorithms using grid computation
3	108	Ramesh Parajuli and Deepak Motwani	Patch based Texture Synthesis – A Review
4	109	Roshna R.S and Vinodh Ewards	A Survey On Botnet
5	115	Yogendra Kumar Soni, Manish Rathore and Anil Kumar	GA optimized PID Controller design via mixed method of Modal Reduction
6	142	Saurabh Srivastava, Himanshi Raperia, Sarvesh Kumar and Vijay Kumar	Basis Path Testing Using Ant Colony Optimizaiton Algorithm
7	151	Sudeepa Roy	Heuristic Resource Allocation in Grid Computing
8	172	Abhishek Narkhede, Dinesh Bhoyar and Swati Mohod	Leaky Least Mean Square (LLMS) Algorithm For Channel Estimation In MIMO-OFDM System
9	234	Dr. Mandeep Mittal, Juhi Singh, Amit Aggarwal, Khushboo Kumari and Manan Yadav	Ordering Policy for Imperfect Quality Itemsets using Cross Selling Effects
10	239	C K Jaggi, Dr. Mandeep Mittal, Jyoti Gulia, Pankaj Singh & Ruchi Sharma	Credit financing in economic ordering policies for defective items with order overlapping
11	245	Praveen Kumar, Piyush Saxena and Satyajit Padhy	Optimizing Parallel Data Processing With Dynamic Resource Allocation