

ISEC 2015 – 18th February [Day 1] Program

	SEED Workshop	Tutorials
8:00 AM – 9:00 AM	Registration	
9:00 AM – 10:00 AM	Keynote: Gerd Hoefner [CEO of Siemens Technology and Services Private Limited]	
	Session Chair: Ashish Sureka	
10:00 AM – 10:30 AM	Coffee Break	

	Tutorials	
	Tutorial Chair: Atul Gupta	
10:30 AM – 1:00 PM	Applying Design Principles in Practice	Repository Driven Test Automation
1:00 PM – 2:30 PM	Lunch Break	
2:30 PM – 4:00 PM	Software Process Intelligence	Regression Test Suite Optimization
4:00 PM – 4:30 PM	Coffee Break	
4:30 PM – 5:30 PM	Software Process Intelligence	Regression Test Suite Optimization

	SEED 2015
10:30 AM – 11:30 AM	Keynote: Shubhashis Sengupta [Research Fellow at Accenture Technology Labs]
	Session Chair: Bimlesh Wadhwa
11:30 AM – 1:00 PM	Technical Paper Presentations & Group Discussion
1:00 PM – 2:30 PM	Lunch Break
2:30 PM – 3:30 PM	Keynote: Pankesh Patel [Scientist at ABB Corporate Research, Bangalore]
	Session Chair: Bharat Gera
3:30 PM – 4:00 PM	Technical Paper Presentations & Group Discussions
4:00 PM – 4:30 PM	Coffee Break

	ModSym
8:00 AM – 9:00 AM	Registration
9:00 AM	Opening Remarks
9:00 AM – 10:00 AM	Keynote: Bernhard Rumpe Session Chair: Vinay Kulkarni
10:00 AM – 10:30 AM	Coffee Break
10:30 AM – 11:15 AM	Invited Talk: Ulrich Frank
11:15 AM – 12:00 PM	Invited Talk: Tony Clark
12:00 PM – 12:45 PM	Invited Talk: K. V. Nori
12:45 PM – 2:00 PM	Lunch Break
2:00 PM – 2:45 PM	Invited Talk: Amitabh Mukherjee
2:45 PM – 3:30 PM	Invited Talk: Sreedhar Reddy
3:30 PM – 4:15 PM	Invited Talk: Meenakshi D'Souza
4:15 PM – 5:30 PM	Informal discussion @ posters + coffee
5:30 PM	Closing Remarks

ISEC 2015 – 19th February [Day 2] Program

7:30 AM – 8:50 AM	Registration
8:50 AM – 9:00 AM	Opening Notes by PC Chairs
9:00 AM – 10:00 AM	Keynote by Prof. Koushik Sen on Automated Test Generation Using Concolic Testing Session Chair: Murali Krishna Ramanathan
10:00 AM – 10:20 AM	Coffee Break
10:20 AM – 11:45 AM	10:20-10:40 Giriprasad Sridhara, Vibha Singhal Sinha and Senthil Mani. <i>Naturalness of Natural Language Artifacts in Software</i> 10:40-11:00 Saurabh Tiwari and Atul Gupta. <i>An Approach of Generating Test Requirements for Agile Software Development</i> 11:00-11:45 <i>On Abstraction Refinement for Program Analyses in Datalog</i>. Xin Zhang, Ravi Mangal, Radu Grigore, Mayur Naik, and Hongseok Yang. PLDI'14: ACM Conference on Programming Language Design and Implementation. (Invited Paper)) Session Chair: Raghu Nambiar, Siemens
11:45 AM – 12:00 PM	Networking Break
12:00 PM – 1:05 PM	12:00-12:20 Lov Kumar and Santanu Ku. Rath. <i>Predicting Object-Oriented Software Maintainability using Hybrid Neural Network with Parallel Computing Concept</i> 12:20-13:05 <i>Learning Natural Coding Conventions</i>. Miltos Allamanis, Earl T. Barr, Christian Bird, and Charles Sutton. In Proceedings of the 22nd International Symposium on the Foundations of Software Engineering (FSE'14), Hong Kong, China, 2014 (invited paper). Session Chair: Rakesh Shukla, Infosys labs
1:05 PM – 2:00 PM	LUNCH
2:00 PM – 3:00 PM	14:00-14:20 Muthukumaran Kasinathan, Akhila Rallapalli and Neti Lalita Bhanu Murthy. <i>Impact of feature selection techniques on bug prediction models</i> 14:20-14:40 Manisha Khattar, Yash Lamba and Ashish Sureka. <i>SARATHI: Characterization Study on Regression Bugs and Identification of Regression Bug Inducing Changes: A Case-Study on Google Chromium Project</i> 14:40-15:00 Jayadeep Pati. <i>A Hybrid ARIMA Technique for Software Reliability Prediction</i> Session Chair – Santonu Sarkar, BITS Goa
3:00 PM – 3:15 PM	Coffee/Tea Break

3:15 PM – 5:00 PM	15:15-16:00 <i>Powering the Static Driver Verifier using Corral</i>, Akash Lal and Shaz Qadeer, FSE 14. Akash Lal. (Invited Paper)) 16:00-16:20 Atul Kumar, Raoul Jetley and Anil Nair. <i>Analyzing Dependencies in an Industrial Automation Engineering System</i> 16:20-16:40 Prabhakar Cherukupalli and Raghu Reddy. <i>Reengineering Enterprise Wide Legacy BFSI Systems – Industrial case study</i> 16:40-17:00 Venkata Krishnan Paila and Sebes Jaile. <i>Automated Crash Report Analysis Algorithm based on 'Exception Based Pattern' & 'Reference Assembly Mapping'</i> Session Chair – Vasudeva Verma, IIIT Hyderabad
5:00 PM – 5:20 PM	Networking Break
5:20 PM – 6:15 PM	17:20-17:40 Joe Shobe, Md Yasser Karim and Huzefa Kagdi. <i>How Often does a Source Code Unit Change within a Release Window?</i> 17:40-18:00 Yash Lamba, Manisha Khattar and Ashish Sureka. <i>Mining Android Applications for Discovering API Call Usage Patterns and Trends</i> 18:00-18:20 Subhajit Datta and Prasanth Lade. <i>Will this be Quick? A Case Study of Bug Resolution Times across Industrial Projects</i> Session chair - Raghu Reddy, IIIT Hyderabad
6:20 PM – 7:05 PM	Sponsors Session
7:05 PM onwards	Cultural Program followed by Conference Banquet Dinner

ISEC 2015 – 20th February [Day 3] Program

8:00 AM – 9:00 AM	Registration and Gather in Room
9:00 AM – 10:00 AM	Keynote: Compositional Software Language Engineering, Bernhard Rumpe
10:00 AM – 10:20 AM	Coffee Break
10:20 AM – 11:30 AM	10:20-10:40 Vaibhav Jain and Arpit Gupta. <i>Exploiting Lack of Conceptual Cohesion of Methods</i> 10:40-11:00 Mihnea Niculescu, Michael Canedo Blanco and Philippe Dugerdil. <i>Measuring Inheritance Patterns in Object Oriented Systems: the Dynamic Inheritance Ratio Metric</i> 11:00-11:20 Santonu Sarkar and Sayantan Mitra. <i>A Profile Guided Approach to Optimize Branch Divergence While Transforming Applications for GPUs</i> Session Chair – Suman Roy Chowdhury, TCS
11:20 AM – 11:30 PM	Networking Break
11:30 AM – 12:15 PM	11:30-12:15 <i>Understanding Source Code with Functional Magnetic Resonance Imaging</i>. Janet Siegmund, Christian Kästner, Sven Apel, Chris Parnin, Anja Bethmann, Thomas Leich, , Gunter Saake, and André Brechmann 12:15-12:35 Shubhashis Sengupta, Roshni Ramnani, Subhabrata Das and Anitha Chandran. <i>Verb-based Semantic Modelling and Analysis of Textual Requirements</i> session chair – Srinivas Padmanabhuni, Infosys Labs
12:35 PM – 1:45 PM	Lunch and Networking
1:45 PM – 2:45 PM	13:45-14:05 Nishant Sinha, Rezwana Karim and Monika Gupta. <i>Simplifying Web Programming</i> 14:05-14:25 Indu Chawla and Sandeep K Singh. <i>An automated approach for Bug categorization using fuzzy logic</i> 14:25-14:45 Kirti Garg and Vasudeva Varma. <i>Systemic Requirements of a Software Engineering Learning Environment</i> Session Chair – Sagar Sunkle, TCS
2:45 PM – 3:15 PM	Coffee/Tea Break
3:15 PM – 4:15 PM	Keynote: <i>Evidence Engineering</i>, Audris Mockus Session Chair: Prem Kumar Devanbu
4:15 PM – 4:30 PM	Closing session And Awards (Best Paper and Best Reviewer)