

CSI National Workshop/Conference on Formal Methods-NCFM October 15th-17th, 2014

At

MRC Auditorium, Indian Institute of Science, Bengaluru

DAY THREE CONFERENCE 17th October 2014 9.00 AM -5.00 PM

| Topic | Speaker | Time |
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| Formal Verification at Nvidia | Dr Kalyan Krishnamani | 9.00-9.30 |
| Should we use formal methods in Flight Controls? | Dr. Yogananda | 9.30-10.00 |
| Challenges in Static analysis and testing in the Industry | Mr.R Venky | 10.00-10.30 |
| Formal Methods for Assurance of Safety Critical Systems: A case study | N Ranjana, | 10.30-11.00 |
| TEA BREAK 11.00-11.30AM | | |
| Title: Formal methods at MathWorks Abstract: This talk will present an overview of the formal methods activities at MathWorks. We will present some of the ways in which our customers are deploying formal methods technologies and the value that they see in these technologies. We will present some of the technical challenges in developing solutions for customer needs. Some of these | Dr. PrahladSampath and Dr. Manoj Dixit | 11.30-12.00 |

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| challenges are pragmatic problems and are amenable to engineering solutions, but some of the challenges require fundamental breakthroughs to be addressed effectively. | | |
| Formal Methods for Assurance of Safety Critical Systems: A case study | Dr. Sudarasan | 12.00-12.30 |
| Industry perspective on the use of formal methods and program analysis for embedded systems | Dr. Raoul Jetley | 12.30-1.00 |
| LUNCH BREAK 1.00-2.00PM | | |
| Case Study by MCSRDC-HAL | Shailashree Patil | |
| Development of Large scale airborne embedded application for a fighter aircraft | Mr. B S Reddy | 2.30-3.00 |
| Beyond Security: A case study | Team Beyond Security | 3.00-3.15 |
| Valedictory 3.15-4.00 | | |
| High Tea 4.00-4.30 | | |