

**INVITATION**

**TOPTECH Program on Vehicle Data Analysis and Control Design using MATLAB & Simulink**

SAE India (Northern section) and MathWorks are pleased to invite you to participate in the Top Tech Program on

**"Vehicle Data Analysis and Control Design using MATLAB & Simulink" on 28th July 2015, at HOTEL MAPPLE EMERALD, RAJOKRI, NH-8, NEW DELHI - 110038**

Join us for this free half day seminar and explore new capabilities that will change the way you handle and process large datasets with MATLAB. Also, discover how MathWorks solutions provide an integrated platform for control system design and physical modelling

**Register Online**

\* For SAE membership & Registration, Please contact:

Mr Anup Kacker, Executive Director SAENIS

Email: sae.nis@gmail.com

Ph. No: +91 (124) 4370163, +91-9873188382

\* SEATS ARE LIMITED , PLEASE BRING CONFIRMATION MAIL FROM SAE NIS / MathWorks FOR REGISTRATION AT VENUE

2:00 pm - 2:30 pm	<b>Registration &amp; Welcome</b>
2:30pm - 4:00 pm	<p><b>Opening address by Mr. Deepak Sawkar (Vice President, Maruti Suzuki India Ltd.)</b></p> <p><b>Vehicle Data Analysis, workflow Automation using MATLAB</b></p> <ul style="list-style-type: none"> <li>- Explore, analyze and visualize data acquired from various DAQ systems</li> <li>- Fleet Data analytics</li> <li>- Develop and take algorithms to production</li> </ul>
4:00pm -4.15 pm	<b>BREAK</b>
4:15pm -5:45pm	<p><b>Building system level simulation model of vehicle Modeling &amp; Simulation of Electro-Mechanical systems</b></p> <ul style="list-style-type: none"> <li>-How to model and simulate a system – From equations or data</li> <li>- How to import 3D CAD models in MATLAB to perform dynamics analysis using SimMechanics</li> <li>- Perform optimization to create accurate plant models</li> </ul> <p><b>Control System Design and Analysis</b></p> <ul style="list-style-type: none"> <li>- Automatic Tuning of Controllers</li> </ul> <p><b>Deploying control system on Embedded Systems</b> (Arduino Uno/ Mega) Run Simulink models on Arduino UNO or MEGA, Raspberry Pi.</p>

**Amit Doshi, MathWorks**

**Speakers**



At MathWorks, Amit Doshi works as an application engineer in the area of technical computing.

He primarily focuses on numerical analysis, statistics, optimization, application development and deployment, and parallel computing.

Amit has more than 8 years of work experience involving experimental test setup development, testing and validation, workflow automation, and system simulations. Previously, he worked for Suzlon Energy Limited (Pune and Germany), Texas instruments (Germany), and IIT Bombay.

Amit holds a bachelor's degree in mechanical engineering from India and a master's degree in mechatronics from Germany.

**Dhirendra Singh, MathWorks**



Dhirendra Singh is an application engineer at MathWorks India, specializing in physical modeling, robotics, and control systems. He has more than eight years of experience in product development, mathematical modeling, application deployment, and software automation. He has worked in the fields of heat transfer, aerospace, power transmission, robotics, and home appliance.

Prior to joining MathWorks, Dhirendra worked for the Advanced Development Group at the Whirlpool Global Technical Center developing the mathematical models of compressors, heat exchangers, and various refrigerants using MATLAB and Simulink. He previously worked with Crompton Greaves on power transformers and with SIPAL Italy on aerospace projects relating to the Boeing 787 Dreamliner.

He has a bachelor's degree and a master's degree in mechanical engineering with a specialization in CAD and automation from IITBombay.



**Venue:**

HOTEL MAPPLE EMERALD  
National Highway 8, Rajokri  
New Delhi - 110038. Phone: **+91-11-25661661**

## About MathWorks

MathWorks is the leading developer of mathematical computing software. Engineers and scientists worldwide rely on its products to accelerate the pace of discovery, innovation, and development.

### Products

MATLAB®, the language of technical computing, is a programming environment for algorithm development, data analysis, visualization, and numeric computation. Simulink® is a graphical environment for simulation and Model-Based Design of multi domain dynamic and embedded systems. The company produces nearly 100 additional products for specialized tasks such as data analysis and image processing. (See product map.)

MATLAB and Simulink are used throughout the automotive, aerospace, communications, electronics, and industrial automation industries as fundamental tools for research and development. They are also used for modelling and simulation in increasingly technical fields, such as financial services and computational biology. MATLAB and Simulink enable the design and development of a wide range of advanced products, including automotive systems, aerospace flight control and avionics, telecommunications and other electronics equipment, industrial machinery, and medical devices. More than 5000 colleges and universities around the world use MATLAB and Simulink for teaching and research in a broad range of technical disciplines.

## ABOUT SAE INDIA

SAEINDIA, a non-profit body has been in the forefront to identify and transmit relevant technologies to the society in general, and stakeholders, in particular. It is affiliated to the parent body SAE International which is head quartered in USA with a glorious record of more than 100 years of service to the mobility community.

SAE International has more than 121,000 members – engineers, business executives, educators & students from more than 97 countries – who share information & exchange ideas for advancing the engineering of mobility systems. SAE is a premier resource for standards development, events, technical information & expertise useful in designing building, maintaining & operating self-propelled vehicles for use in land, sea or air.

## ABOUT SAEINDIA NORTHERN SECTION

SAEINDIA Northern Section, a section of SAEINDIA, is a premier society that serves the Mobility Engineering fraternity towards the design, manufacture and service of self propelled vehicles & systems that move in air, space and on land. The society has more than 7200 members comprising of stalwarts of the industry and affiliates from the student community. SAEINDIA Northern Section covers Rajasthan, UP, Uttaranchal, Uttarakhand, Delhi-NCR, Haryana, Punjab, HP, J&K. The body has been involved in conducting seminars, workshops, conferences, student & professional events for its members.

## REGISTRTION DETAILS

Name :	
Designation :	
Department :	
Company Name :	
Contact number :	
Email Address :	