

Interactive Workshop for Industry

on

Launch of Robo Analyzer- Beta, The Robotics Simulation Software *(Under the aegis of FITT, IIT Delhi)*

Date	: Saturday, 18th April, 2009
Venue	: Seminar Room No. – 422 (Top floor), Block-II, Mechanical Engineering Department, IIT Delhi.
Registration	: 3:00 PM
Brief Introduction of Robo Analyzer	: 3:15 PM
Practical session with Robo Analyzer	: 4:45 PM
Feedback session	: 4:45 PM
Prize Distribution Ceremony	: 4:55 PM
Tea & Snacks	: 5:00 PM

About RoboAnalyzer

Robotics has emerged as a vast field in recent times. It is because of robots' ability to perform the tireless and dangerous jobs with utmost precision that it has gained a lot of attention these days. It has become a major field of interest amongst youngsters and hence most of the engineering institutes have started offering core robotics courses in their curriculum. They are trying to provide sufficient facilities, resources and training to the students interested in this field. Robotics is a field which is bringing together youth for both fun and education. It is attracting not only youngsters, but also the students who are pursuing their doctoral and master's thesis.

There are very few teaching aids being used by institutes to train individuals in robotics. The process of building robotics concepts is constrained with the visualization of individuals. The industry does not have much software which can simply define, simulate and show the behavior of simple robot components other than their own robots. So, to make this process easier for students and academicians, we have endeavored to develop this robot software "RoboAnalyzer." RoboAnalyzer provides a platform for the students to analyze the kinematics, dynamics, and path planning of an industrial robot. In one of the future developments, it will also show robot's animation. It also computes and plots the variations in motion parameters of the robotic arm at any moment in time. It is provided with many user friendly features.

The software is developed based on one of the advanced recursive robot dynamics algorithms developed at IIT Delhi in last 15 years. It is estimated to be one of the most efficient and numerically stable software. Hence, it will allow industries to develop faster robots. This ultimately leads to higher profits for the companies or cost saving by using low-speed controllers.

Some of its striking features are:

- Ability for kinematic and dynamic analysis.
- Plotting of resulting data into various charts -- Pie Chart, Bar Chart, Line Chart.
- Preprocessing and post processing applications so as to integrate with commonly used robotic systems.
- A user friendly simulation viewer.
- Microsoft compatible installer.
- Providing stability features for better performance in new operating systems.

Enjoy RoboAnalyzer!

Registration fees of Rs. 500/- payable in favour of "FITT, IIT Delhi"

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Registration Form

1. Name : _____
2. Designation: _____
3. Organisation: _____
4. Mailing Address: _____

5. Phone: _____ FAX: _____
6. E-mail: _____
7. Enclosed here is DD/Cheque No. _____ dated _____ drawn
in favour of “**FITT IIT Delhi**” for Rs.500/- towards the Registration fee.

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