NCMDAO-2019

Second National Conference on Multidisciplinary Design, Analysis, and Optimization

March 21st to 23rd, 2019

M S Ramaiah University of Applied Sciences, Peenya, Bengaluru, India

www.ncmdao.org

Important Dates

Last date for registration:
March 10, 2019
Conference dates:
March 22-23, 2019

Sponsors

Metacomp Technologies

VR&D OPTISIGN

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Organization

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The conference jointly organized by M.S. Ramaiah University of Applied Sciences (MSRUAS), Design division of the Aeronautical Society of India (AeSI), Mechanical Engineering department at the Indian Institute of Science, Bengaluru (IISc) and Engineering Design department of the Indian Institute of Technology Madras (IITM), aims to bring together researchers and industry professionals working in the areas of multidisciplinary design, analysis, and optimization.

Partners

SAEINDIA Society of Automotive Engineers INDIA

Tamil Nadu Technology Development & Promotion Centre (TDPC)

Publication Partner: Springer

Conference Fee

Industry participants:	**INR 10000**
Faculty/Start-up/Govt. lab employees:	**INR 5000**
Students and Post Docs:	**INR 500**

SAE, AeSI and CII members can avail 20% discount on the conference fee

Tentative Schedule

		Day 0	Day 1	Day 2
Session 1	9:00 - 9:30	Master Class: Dr. Somanath Nagendra (PW), Vinay Ramanath (Siemens), Prof. Palaniappan Ramu (IITM)	Inauguration	Sponsor PPTs
	9:30 - 10:30		Keynote: Dr. Bala Bharadwaj (MD, Boeing India)	Keynote: Dr. Rakesh Kapania (Virginia Tech, USA)
Session 2	10:45 - 13:00		Conference Papers	Conference Papers
Session 3	14:00 - 14:30		Invited talk: Dr. Adi Murthy (Director, ISRO)	Invited talk
	14:30 - 15:45		Conference Papers	Conference Papers
Session 4	16:00 - 17:30		Conference Papers	Conference Papers
	17:30 - 18:00		Wrap-up Day 1	Wrap-up Day 2
	19:00 – 22:00		Banquet Dinner	

Topics

- **Size, shape, and topology optimization**
- **System design and optimization**
- **Machine learning in optimization**
- **Model-based system design and optimization**
- **Uncertainty quantification, reliability and robustness**
- **Evolutionary methods and algorithms**
- **Composite material optimization**
- **Metamodeling / Surrogate modeling**
- **Design of experiments**
- **Design sensitivity analysis**
- **System identification**
- **Inverse problems**
- **Optimization application in emerging areas**
- **MDAO applications in but not limited to: Aerospace, Automotive, Biomedical and Manufacturing industries**