



# 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](http://www.ncmdao.org)

## Important Dates

**Submission of abstract:**

**December 15, 2018**

**Invitation for full paper:**

**December 30, 2018**

**Early bird registration deadline:**

**January 30, 2019**

**Submission of full paper:**

**February 20, 2019**

**Last date for registration:**

**March 10, 2019**

## Organization

### General Conference Committee

Dr. Kota Harinarayana, AeSI (Chair)

Prof. H. K. Narahari, RUAS

Prof. G. K. Ananthasuresh, IISc

Prof. Palaniappan Ramu, IITM

### Organizing Committee

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### Technical Committee

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Dr. Santosh Korthu, ADA

Dr. Pankaj Priyadarshi, VSSC-ISRO

Dr. Somanath Nagendra, P&W, UTC, USA

Dr. Prajwal Shivaprakasha, DLR, Germany

### Advisory Committee

Prof. K. Sudhakar, IITB (Chair)

Dr. A. R. Upadhyaya, NAL

Dr. Govind Kadambi, VC, RUAS

Prof. Ashok Belegundu, Penn State Univ

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. Established techniques and emerging technologies are equally emphasized to take advantage of the past accomplishments to step up the future of optimization-based design and model-based systems. The focus is on design and analysis as applicable to optimization of systems. Optimization in aerospace, automotive, manufacturing, biomedical, and other application domains are within the scope of this conference.

## 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

## Conference Fee

**Industry participants:**

**INR 10000** SAE and AeSI members

**Faculty/Start-up/Govt. lab employees:** **INR 5000**

can avail 20% discount  
on the conference fee

**Students and Post Docs:** **INR 500**

## Tentative Schedule

		Day 1	Day 2	Day 3
Session 1	9:10 - 10:00		Keynote	Keynote
	10:00 - 11:00		CP	CP
Session 2	11:30 - 12:00		Invited talk	Invited talk
	12:00 - 13:00		CP	CP
Session 3	14:00 - 14:30		Invited talk	Invited talk
	14:30 - 15:30		CP	CP
Session 4	16:00 - 17:00		WS	Panelist Presentation
	17:00 - 18:00		WS	Discussion & Wrap-up

WS - Workshop CP - Contributed Papers

Abstract and paper should be submitted in PDF format at:

<https://easychair.org/conferences/?conf=ncmdao2>