



NC-MDAO-2018

National Conference on Multidisciplinary Design, Analysis, and Optimization

March 23rd to 24th, 2018

A. R. Auditorium, Indian Institute of Science Bengaluru, India

www.ncmdao.org

Important Dates

Submission of full paper:

February 28, 2018

Last date for registration:

March 1, 2018

Partners



Conference Committee

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Administrative Contact

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The conference jointly organized by Mechanical Engineering department at the Indian Institute of Science, Bengaluru (IISc), Design division of the Aeronautical Society of India (AeSI), 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 of devices and 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
- Systems design and optimization
- Multi-objective and multi-disciplinary optimization
- Model-based systems design and optimization
- Optimal design of autonomous vehicles and systems
- Meta-modeling, surrogate modeling
- Optimization in additive manufacturing
- Design optimization for reliability and robustness
- Optimal design for manufacturability and maintenance
- Design of experiments and sensitivity analysis

Conference Fee

Industry participants:

INR 10000

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

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

INR 500

Tentative Schedule

		Day 1	Day 2
Session 1	9:10 - 10:00	Keynote talk 1	Keynote talk 2
	10:00 - 11:00	4 Contributed papers	4 Contributed papers
Session 2	11:30 - 12:00	Invited talk 1	Invited talk 3
	12:00 - 13:00	4 Contributed papers	4 Contributed papers
Session 3	14:00 - 14:30	Invited talk 2	Invited talk 4
	14:30 - 15:30	4 Contributed papers	4 Contributed papers
Session 4	16:00 - 17:00	Workshop 1	Presentation by six panelists
	17:00 - 18:00	Workshop 2	Discussion & Wrap-up

Tentative session themes: (i) Auto/Aerospace applications (ii) Size, shape and topology optimization (iii) Reliability and robustness (iv) Manufacturing (v) Optimization applications

Abstract and paper should be sent in PDF format to ncmdao2018@gmail.com