

International Conference  
on  
**Advances in Structural  
Mechanics and Applications  
(ASMA-2021)**  
(Online Mode)

**06-08 October 2021**



Department of Civil Engineering  
National Institute of Technology Silchar  
INDIA-788010

**About NIT Silchar**

National Institute of Technology (NIT) Silchar, an Institute of National Importance under the NIT Act, was established in 1967 as Regional Engineering College (REC) Silchar in Assam. In year 2002, it was upgraded to the status of an NIT from REC. NIT Silchar is situated on the banks of river Barak and on a sprawling campus spread over 600 acres of land on the outskirts of Silchar city. It is strewn with beautiful lakes and hillocks. NIT Silchar is a fully residential Institution. At present it offers six undergraduate courses in Engineering, and a number of Post-Graduate courses in the civil, mechanical, electrical, electronics & telecommunication and computer science engineering.



The Department of Civil Engineering started its journey in 1977. Ever since the inception, it has been imparting quality education to under graduate students. The Department presently fosters five PG programs viz. Structural Engineering, Structural Dynamics & Earthquake Engineering, Geotechnical Engineering, Transportation Engineering and, Water Resource Engineering. A good number of research scholars are carrying out research in various fields. There are about a dozen laboratories with various research and testing facilities. The faculty comprises of eminent specialists from diverse fields. The vision of the Department of Civil Engineering is to achieve unique identity by development of knowledge resources and highly competent Civil Engineers in various fields of Civil Engineering to meet local, national, and global economic and social needs. NIT Silchar has been ranked 46<sup>th</sup> in the country in Engineering category by NIRF 2020. NIT Silchar has been ranked in the rank band 601-800 for Engineering in the prestigious Times Higher Education World University Ranking in 2021. NIT Silchar is ranked at 6<sup>th</sup> in India and 275 in UI GreenMetric World University Rankings 2020.

**ASMA-2021**

International Conference on Advances in Structural Mechanics and Applications (ASMA-2021) is aimed towards a national and international level forum for profound discussions with shared interest on novel research and developments in the entire domain of structural engineering. Academicians, researchers, consultants, practicing engineers working in government / private sectors from all over the India and abroad are sincerely encouraged to participate in this online international conference.

**Important Dates**

1. Last date for submission of abstract: **28-Feb-2021**
2. Notification on acceptance of abstract: **10-Mar-2021**
3. Last date for submission of full paper: **10-Apr-2021**
4. Notification on acceptance for presentation in the conference: **25-Apr-2021**
5. Last date of registration: **10-May-2021**

**Registration**

For Indian participants:	<b>Rs. 3000</b>
For Indian students*:	<b>Rs. 1000</b>
For Foreign participants:	<b>100 US\$</b>
For Foreign students*:	<b>50 US\$</b>
Fee to be paid using online-transfer.	

*\*All authors of a paper should be students.*

**Conference Themes**

Major themes of ASMA-2021 are (but not limited to):

- Computational Mechanics and Modelling
- Composite Structures
- Structural Health Monitoring
- Sustainable and Resilient Infrastructure
- Data Analytics in Structural Engineering
- Structural Safety and Stability
- Vibration and Control
- Fluid-Structure Interaction
- Structural Optimization
- Retrofitting of Structures
- Smart Structures

- Probabilistic Structural Mechanics
- Structures under Extreme Conditions (e.g. Earthquakes, Winds, Fires, Blasts etc.)
- Performance-Based Design
- Experimental Structural Mechanics

### Advisory Committee

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- Assoc. Prof. Dr. Denise-Penelope N. Kontoni, University of the Peloponnese, Greece
- Dr. Manyu Xiao, NorthWestern Polytechnic University, PRC

### Keynote Speakers

- Prof. Amir H Gandomi, University of Technology Sydney, Australia
- Prof. Ka-Veng Yuen, University of Macau, PRC
- Prof. José António Correia, University of Porto, Portugal
- Prof. Yogendra Singh, IIT Roorkee, India
- Dr. Hussam Mahmoud, Colorado State University, USA

### Call for Paper

Original/novel contributions are invited from the academicians, researchers, consultants as well as practicing engineers associated with advances and recent trends in structural engineering. Peer-reviewed select conference papers will be published in conference proceedings under the Structural Integrity book series, Springer, ISSN: 2522-560X (indexed in both Scopus and SCIE). Select and peer-reviewed papers presented in this online conference are likely to be published in the following indexed scientific journals (in regular or special issues):

- ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering
- ASCE Practice Periodical on Structural Design and Construction
- Mechanics of Advanced Materials and Structures
- Material Design & Processing Communication
- Fracture and Structural Integrity
- ASCE Journal of Performance of Constructed Facilities
- Modelling, MDPI

- International Journal of Structural Integrity
- Frontiers in Sustainable Cities, Sustainable Infrastructure
- Smart Infrastructure and Construction, ICE
- Structures, Elsevier

Abstract and full length paper to be submitted using the following link (EasyChair):

<https://easychair.org/conferences/?conf=asma2021>

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