



3rd International Conference on
"Mathematical Modelling and Simulation in
Physical Sciences (MMSPS-2023)"
(ONLINE MODE)

23-24 June. 2023

Under Centre for Continuing Education (CCE), SVNIT, Surat.





https://mmsps22.wixsite.com/mmsps

Organized by

Department of Mathematics & Department of Physics
S. V. National Institute of Technology, Surat -395007, Gujarat, India

Chairman:

Dr. V. H. Pradhan,

Professor, DoM

Organizing Secretaries: Dr. Jayesh Dhodiya,

Associate Professor & Head, DoM

Dr. Yogesh Sonvane

Assistant Professor, DoP **Dr. Saroj R. Yadav**

Assistant Professor, DoM

Dr. Sourav GuptaAssistant Professor, DoM

ABOUT SURAT

Surat, situated on the bank of holy river Tapi, is a top ranking industrial and yet green city of the country with a network of flyovers with clean and wide roads. It is well known worldwide for textile, Zari & Diamond industries. Several large scale industries & establishments, such as RIL, L&T, ESSAR, etc. are located in and around Surat. It is situated on the main Western Railway route between Vadodara and Mumbai, at a distance of 129 km from Vadodara and 263 km from Mumbai. Further, daily flights connect Surat with New Delhi and Mumbai. The Institute is located at Ichchhanath on Surat-Dumas road at a distance of about 10 Km from Surat railway station and airport.

ABOUT SVNIT

The Institute, one of the pioneering engineering institutions of the country, was established in 1961 as Sardar Vallabhbhai Regional College of Engineering & Technology and was given a status of National Institute of Technology, in 2002. The Institute has been granted the status of 'Institute of National Importance' w.e.f. Aug. 15, 2007. At present, there are Six undergraduate courses, eighteen postgraduate courses, Three M.Sc. Five Years Integrated Programmes in Mathematics, Physics and Chemistry and Ph.D. programmes in all disciplines of engineering and applied sciences. It has an excellent placement record with a number of top-ranking companies visiting the campus.

ABOUT CCE

Center for Continuing Education (CCE) was established in Feb-2017 at SVNIT with Prime objective to imparting skill developing training programs to faculty, research scholars, UG/PG students, industry professional through planning and organizing Workshop/STTP/Expert talks on the concept of Self-Sustainability approach as per MHRD Guide-lines.

ABOUT THE CONFERENCE

The 1st and 2nd International conference was organized successfully during 17-18 April, 2021 and 5-6 February 2022 respectively. It was a great and successful event as more than 150 participants have participated and exchanged their knowledge at one platform in 1st MMSPS-2021 whereas 157+

participants have participated and exchanged their knowledge at one platform in 2nd MMSPS-2022. Proceeding of 1st MMSPS-2021 is published with Excellent Book Publisher and 2nd is going to be published in CRC press, Taylor & Francis publisher. Looking into the overwhelming response of the participants the Department of Mathematics and Humanities is organizing the 3rd International Conference on Mathematical Modeling and Simulation in Physical Sciences (MMSPS-2023) in ONLINE MODE which aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Mathematical Modeling and Simulation in physical sciences. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Mathematical Modelling and Simulation in physical sciences.

Topics to be covered:

- o Mathematical Modeling & Simulation
- o Scientific Computing
- Fluid Dynamics
- Heat & Mass Transfer
- o Biological Modeling
- Operations Research
- Data Science & Analytics
- o Artificial Intelligence
- o Financial Mathematics
- Computational Material Science
- Sustainable Energy

Call for papers & Publications

The participants desirous to present a paper in the area are required to send the abstract not exceeding one page. The abstract should be neatly typed in Times New Roman (12), single line spacing on A4 size paper with 0.5 inches' margin on all sides. Title should be in 13 pts & bold letters, names of authors and affiliation should be in italics (10 pts). Only after a peer review the presented papers may be recommended for publication as full-length papers in conference proceedings. All the submitted manuscripts will go through a plagiarism check before technical review. Some excellent papers submitted may be considered for reputed and UGC care journals / Proceeding with SCOPUS/SCI / SCIE index.

Awards:

Paper presentation Awards: Three best oral as well as poster presentation awards will be awarded to each category

Young Achiever Award

Who can Apply: The candidate up to the age of 35 years as on May 31, 2023 shall be eligible for the Young Achiever Award. Additionally, the candidate should have at least 3 years of research experience after obtaining a Ph.D. degree.

How to Apply Applications should be made in the prescribed application format (available in Download link) along with all supporting documents. The application for young achiever award can be submitted online through a google form which is available on conference website. A statement of your research contribution with two pages will also be submitted online with application. Selection Procedure The selection for the Young Achiever Award will be based on the overall merit of the research work. Shortlisted candidates will be invited to present their research work during the conference. Final awardees will be selected based on their previous work and presentation.

Registration:

The non-refundable registration fees should be sent in the form of a Demand Draft in favour of "Director, SVNIT-CCE" payable at Surat. or through the internet (NEFT). Bank details for online transfer of registration fees:

Bank Account Name: Director, **SVNIT-CCE SBI Account No.:** 37030749143 Bank Name: State Bank of India IFCS Code: SBIN0003320



Online Registration link:

Branch: SVRCET Branch

Click for the Registration

Registration Fee including GST

	For Indian	For
	(INR)	Foreigner
		(USD)
PG Students	590/-	50
Ph.D. Research scholars	1180	100
Faculty	2360/-	200
Industry Personnel	4720/-	400

Important Dates:

Last date of Registration &	24-05-2023
Abstract submission:	
Notification of acceptance:	31-05-2023
Last date of Submission of	10-06-2023
Full length paper:	

Advisory Committee:

Lt. Col. Prof. Dimplekumar Chalishajar, USA,

Prof. Rakesh K. Sharma, USA

Prof. Saion K. Sinha, USA,

Prof. Rajeev Ahuja, Uppsala, Sweden

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Prof. Vivek Polshettiwar, TIFR, Mumbai

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Dr. Pankaj Poddar, NCL, Pune

Dr. Satyaprakash Sahoo, IOPB, BBSR

Dr. B. P Mandal, BARC, Mumbai Dr. Pankaj R Sagdeo, IIT Indore

Organizing Committee

Patron:

Prof. Anupam Shukla Director, SVNIT

Chairman:

Dr. V. H. Pradhan Professor

Organizing Secretaries:

Dr. Jayesh Dhodiya Dr. Yogesh Sonvane Dr. Saroj R. Yadav Dr. Sourav Gupta

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