



## INTERNATIONAL CONFERENCE ON MATHEMATICAL MODELLING, APPLIED ANALYSIS AND COMPUTATIONAL INTELLIGENCE

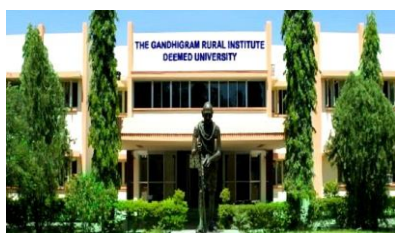
(ICMMAACI-2022)

2<sup>nd</sup> – 4<sup>th</sup> MARCH 2022



**Organized by**

**Department of Mathematics,  
The Gandhigram Rural Institute  
(Deemed to be University)  
(Ministry of Education,  
Govt. of India)  
Gandhigram – 624 302,  
Dindigul, Tamil Nadu, India.**



### About the University

The Gandhigram Rural Institute (GRI), founded by two dedicated disciples and contemporaries of Mahatma Gandhi, Dr. G. Ramachandran and Dr. T. S. Soundaram Ramachandran, has as its foundation Mahatma Gandhi's revolutionary philosophy of Nai Talim, which effectively bridges the cognitive and practical dimensions, and focuses on the holistic development of learners, with an emphasis on skill development through value-based education, rooted in indigenous cultures and traditions. Since its establishment in 1956, GRI has

been unstintingly contributing to higher education and has successfully pioneered rural higher education.

The curricular model developed at GRI organically integrating teaching, research and extension has earned the Institute, the status of Deemed University in 1976 by UGC, the five-star status by NAAC in 2002, 'A' Grade during the re-accreditation in 2010 by NAAC and 'A' Grade in its third cycle of reaccreditation in the year 2016.

### About the Department

The Department of Mathematics was established in the year 1965 at the Gandhigram Rural Institute-Deemed to be University, Tamil Nadu. To compete with International Standards, Research on Stability Problems of Dynamical Systems including Neural Networks and Intelligent Systems, Fractal Theory and its applications, Fuzzy Clustering in Medical Images, Optimization in Marketing related problems, Control theory, Graph theory, Algebraic graph theory are being carried out and the results are published as articles in Internationally refereed journals. The Department has published more than 550 research articles in the SCI journals with SCOPUS citations more than 7200. Funding for research and development is provided by UGC, NBHM, CSIR and DST – SERB continuously for the past 17 years to the faculty members. As a result of consistent performance in research, the Department is recently upgraded with UGC - SAP (DSA-I). International level research collaborations are being undertaken with Deakin University, Australia, Institute of Mathematical Sciences, University of Malaya, Malaysia, Nanyang Technological University, Singapore, Yonsei University, South Korea, United Arab Emirates University, UAE, University of Texas at Arlington, Texas, USA, Pusan/Kunsan National Universities, South Korea.

The Department successfully conducted six International

Conferences up to 2017. The proceeding of conferences [ICLIICC-2011](#) and [ICMMSC-2012](#) published in Springer-Verlag as a book series. In Recent years, the proceedings of [ICDCM-2017](#), [ICAAMMCT-2018](#), [ICDSMMCT 2019](#) has been published in Global Journal of Pure and Applied Mathematics, The Journal of Analysis, Springer and International Journal of Dynamical Systems & Differential Equations respectively. Besides, we have conducted one international workshop in 2019 and an international conference in 2020. Further, the proceedings of [ICMMCIT-2021](#) published in Springer Proceedings on Mathematics and Statistics as book series.

### Objectives of ICMMAACI-2022:

The International Conference on Mathematical Modelling, Applied Analysis and Computational Intelligence (ICMMAACI-2022) to be held in GRI, Gandhigram, Tamil Nadu, India during March 02-04, 2022. The conference looks for significant contributions to all major fields of Mathematical Modelling and Computational techniques. It is a prestigious event organized with a motivation to provide an excellent international platform for the leading academicians, research scholars, industrial participants and budding students around the world to share their research findings with the global experts. We hope that the outcome of ICMMAACI-2022 will lead to a significant contributions to the knowledge base in these up-to-date scientific fields in scope.

### Call for papers

The authors are requested to submit their original research papers through online submission in one of a SCI/SCOPUS/ISI Journals (will be finalised soon) by register themselves after notification. Papers will be accepted only after thorough scrutiny and three peer reviews. Publication will be processed as per rules and regulation of the Journals.

We solicit high-quality original research papers in any aspect of dynamical systems, mathematical modelling and new computational techniques with applications are especially encouraged. Relevant topics include but are not limited to:

- Differential Equations and Dynamical Systems
- Functional Equations
- Fixed Point Theory
- Operator Theory
- Control Theory
- Fuzzy Set Theory
- Stability Analysis
- Optimization Techniques
- Neural Networks
- Graph Theory
- Coding Theory

#### Important Dates

Paper submission deadline : 15.11.2021

Final Paper submission & Registration deadline : 08.02.2022

Conference Date : 02<sup>nd</sup> -04<sup>th</sup> March 2022.

Notification of Acceptance will be declared after completion of three peer reviews.

#### Registration Fee For Indian Delegates

Industry/R&D : Rs. 3,000  
Academia/Part Time Ph.D  
Scholar : Rs. 2,500  
Full Time Ph.D  
Scholar/Students : Rs. 1,500

#### For Delegates from abroad

Industry/R&D : 150 USD  
Academia/Part Time Ph.D  
Scholar : 100 USD  
Full Time Ph.D  
Scholar/Students : 60 USD

The registration fee shall be paid as per guidelines given in Conference Website:  
<https://sites.google.com/view/icmmaaci-2022/home>

#### Publication

Only original research papers will be accepted for presentation and processed for review towards publication.

#### Accommodation

Limited number of accommodation for the participants will be arranged in

University Faculty Guest House on request made well in advance on payment.

#### Probable Invited Speakers

- Dr. C.P. Lim, Deakin University, Australia.
- Dr. Kurunathan Ratnavelu,
- Dr. P. Raveendran,
- Dr. Ong Seng Huat, UCSI University, Malaysia.
- Dr. W.A.M. Othman,
- Dr. Zailan Siri,
- Dr. Chee Seng Chan, University of Malaya, Malaysia.
- Dr. C.P. Tan, Monash University, Malaysia.
- Dr. Grienggrai Rajchakit Maejo University, Thailand.
- Dr. Meng Joo, Dalian Maritime University, China.
- Dr.S.S.N.Perera Univ. of Colombo, Sri Lanka.
- Dr. F. A. Rihan, United Arab Emirates University, UAE.
- Dr. Kim, Hyun-Min, Pusan National University, South Korea.
- Dr. S. Lakshmanan, Kunsan National University, South Korea.
- Dr. R. Saravanakumar, Hiroshima University, Japan.
- Dr. S. Ponnusamy, IITM, Chennai.
- Dr. A.K. Nandakumaran, IISc, Bangalore.
- Dr. Raju K. George, IIST – ISRO, Trivandrum.
- Dr. N. Sukavanam,
- Dr. R. Balasubramanian, IIT – Roorkee.
- Dr. K. Balachandran
- Dr. R Sakthivel, Bharathiyar University, Coimbatore.
- Dr.P.Kandaswamy, DST- SERB, Coimbatore.
- Dr. R. Roopkumar, CUT, Thiruvavur.
- Dr.Rajeswari Seshadri Pondichery University Pondichery.
- Dr. Sasi Gopalan, CUSAT, Kerala.
- Dr. S. Marshal Anthony, Anna University, Coimbatore.
- Dr. R. Kala MS University, Tirunelveli.

#### Advisory Committee Members

Dr. Xiaodi Li, China  
Dr. JinRong Wang, China.  
Dr. S. Ponnusamy, India  
Dr. T. Amaranath, India  
Dr. N. Anabalagan, India

Dr. S. Muralisankar, India  
Dr. P. Prakash, India  
Dr. Animesh Biswas, India  
Dr. K. Murugesan, India  
Dr. V. Ravichandran, India

#### Organizing Committee

##### Chief Patron

**Dr. T. T. Ranganathan**  
Vice-Chancellor i/c  
The Gandhigram Rural Institute,  
(Deemed to be University),  
Gandhigram-624302.

##### Patron

**Dr. V.P.R. Sivakumar**  
Registrar,  
The Gandhigram Rural Institute  
(Deemed to be University),  
Gandhigram-624302.

##### Convenor

**Dr. P. Balasubramanian**  
Prof. & Head,  
Dept. of Mathematics  
GRI-DTBU

##### Co-Convenor

**Dr. R. Uthayakumar**  
Dept. of Mathematics  
GRI-DTBU

##### Organizing Secretary

**Dr. M. Suresh Kumar**  
Dept. of Mathematics  
GRI-DTBU

#### Organizing Committee Members

Dr. G.Mahadevan  
Dr. R. Rajkumar  
Dr. P. Muthukumar  
Dr. G. Nagamani

#### Contact

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District, Tamil Nadu, India.  
Phone: +91-451-2452371

#### Conference E-mail:

[grumath@gmail.com](mailto:grumath@gmail.com)

#### Website:

<https://sites.google.com/view/icmmaaci-2022/home>

#### Venue: Silver Jubilee Hall

The Gandhigram Rural Institute  
(Deemed to be University),  
Gandhigram-624302, Dindigul,  
Tamil Nadu, India.