

INTERNATIONAL CONFERENCE ON DISCRETE MATHEMATICS & ITS APPLICATIONS (ICDMA)

January 18-20, 2018



Organized by
DEPARTMENT OF MATHEMATICS
 (UGC- SAP (DRS II), NBHM and DST-FIST supported)
Manonmaniam Sundaranar University
 Tirunelveli - 627 012, Tamilnadu, INDIA.



ABOUT THE UNIVERSITY

Manonmaniam Sundaranar University was established in the year 1990 through an Act of Government of Tamil Nadu as one of the State Universities to cater to the education needs of three southernmost districts of Tamil Nadu viz., Tirunelveli, Thoothukudi and Kanyakumari. Within a span of twenty five years, Manonmaniam Sundaranar University has grown substantially to the present strength of 27 University Departments and 82 affiliated colleges. At present the total number of students is around 1,800 in the University Departments and 75,000 in the affiliated colleges.

ABOUT THE DEPARTMENT

The Department of Mathematics was established in the year 1992 with a mission to offer Post graduate degree and research programs in Mathematics. The Department has been offering a full-time 2 year **M. Sc., M. Phil., and Ph.D in Mathematics** since its inception. 5 year Integrated M.Sc program has been introduced from the academic year 2016-17 with an intake of 28 students and Sundaranar Merit Scholarship of Rs.2,000/- per month for top ten students.

At present the Department has 4 Professors and 3 Assistant Professors. The faculty members of the department are highly qualified researchers and are engaged in research in the areas of Algebra, Graph Theory, Harmonic Analysis, Optimization Techniques and Algorithms. **21 full time research scholars** are working for Ph.D and they are supported by Rajiv Gandhi National Fellowship, Maulana Azad National Fellowship, INSPIRE Fellowship and Major Research Project Fellowship.

The Department is blessed with two endowments

- 1) Dr. S. S. Pillai Memorial Endowment
- 2) Prof. S. Arumugam Endowment.

SPECIAL COURSE

The Department has the habit of inviting national and international experts for endowment lectures. But for the first time in the history of the University, **Professor Albert F. Faessler** from Bern University, Switzerland conducted a special course on **Algebraic Introduction to Cryptography** for 10 days during 17-28 October 2016 for the II year M.Sc students to earn 2 extra credits.

ABOUT THE CONFERENCE

Discrete Mathematics is a dynamic field in theory, application and even in practice. Researchers in Discrete Mathematics have established important connections with mainstream areas of pure and applied mathematics, and as a consequence, research techniques and problems are drawn from a wide range of different fields, including algebra, topology, geometry, probability, analysis, and logic. Discrete Mathematics has now burgeoned into one of the fastest growing branches of Mathematics.

The main aim of the conference is to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results about all aspects of Discrete Mathematics. It also provides the premier interdisciplinary forum for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns, practical challenges encountered and the solutions adopted in the field of Discrete Mathematics. The speakers and the topics are chosen in such a way that the overall input will cover areas in which current research in Discrete Mathematics is going on at National and International levels. The proceedings of the conference will be brought out after due process of referee through an international publisher.

RESOURCE PERSONS

1. Prof. Albert Faessler, Bern University of Applied Science, Switzerland
2. Prof.(Ms) W.A.M. Othman, University of Malaya, Malaysia.
3. Prof. S. Arumugam, Kalasalingam University, India.
4. Prof. Bruce W. Watson, Stellenbosch University, South Africa
5. Prof. (Ms) Ian Taralova, Ecole Centrale Nantes, France
6. Prof. B. Sooryanarayana, Dr. Ambedkar Institute of Technology, India
7. Prof. Pankaj Srivastava, Motilal Nehru National Institute of Technology, India.
8. Prof. B. Basavanagoud, Karnatak University, Dharwar, India
9. Prof. Sr. K.A. Germina, Central University of Kerala, India.
10. Dr. Angsuman Das, St. Xavier's College, Kolkatta, India.
11. Prof. Indra Rajasingh, Vellore Institute of Technology, Chennai, India.
12. Prof. A. P. Santhakumaran, Hindustan University, Chennai, India.
13. Dr.T. Karthick, Indian Statistical Institute Chennai Centre, Chennai, India.

ABOUT THE VENUE

The venue of the program is the Department of Mathematics in the University campus. The University is located in a campus of 550 acres at Abishekapatti (on Tirunelveli to Tenkasi road) at a distance of 8 kilometers from Tirunelveli Railway station. Tirunelveli city is well connected by roads and rails. It is at a distance of 150 kms from Madurai and Thiruvananthapuram Airports. Courtallam (water falls) and Kannyakumari are important tourist places at a distance of 60-80 kms from Tirunelveli.

CALL FOR PAPERS

The conference invites submission of significant, original and unpublished research papers on Discrete Mathematics including

- Algebra
- Automata theory
- Coding Theory
- Graph theory
- Theoretical Computer Science
- Algorithms
- Cryptography
- Combinatorial Mathematics
- Parallel Computing

All the papers will be scrutinized by a committee of experts before selection for presentation. Paper presenters will be paid II Class Train fare by the shortest route. The last session in each day of the conference will be scheduled for paper presentation by participants. The First day session will be devoted for Best Paper Award (BPA).

PROCEEDINGS

The full text of the papers which are submitted for publication in the proceedings of the conference will be sent to referees and based on their reports, the corresponding authors will be intimated about the acceptance of the paper for publication in the proceedings. Accepted papers will be published through an international journal of good reputation with ISSN number/impact factor. Publication charges will be informed at the time of the conference after ascertaining the sanction / release of grants from the funding agencies.

REGISTRATION

The registration fee for the Conference is as follows:

PARTICIPANTS	INDIAN	FOREIGNER
<i>Students and scholars</i>		
(without accommodation)	Rs.1,500/-	--
(with accommodation)	Rs.2,000/-	USD 150
<i>Teachers and academicians</i>		
(without accommodation)	Rs.2,500/-	----
(with accommodation)	Rs.3,000/-	USD 150
Accompanying person	Rs.2,000/-	USD 100

The registration fee may be credited through NEFT to the following account of the Head, Department of Mathematics, MSU.

SB A/c No. 498519336

Indian Bank, M.S. University Branch, Abishekapatti

IFSC Code :IDIB000A107.

The duly filled in application should be sent to the **Organizing Secretary** with a NEFT Challan / Demand Draft drawn in favor of the **Convener, ICDMA 2018, MSU** payable at **Tirunelveli**. The registration fee covers cost of conference kit, conference materials and local hospitality for 3 days.

IMPORTANT DATES :

- | | |
|--|--|
| Last date for receipt of filled in application | : 31.12.2017 |
| Selection intimation for participation | : within 3 days of receipt of Registration fee |
| Last date for submission of abstract | : 20.12.2017 |
| Last date for submission of full paper | : 10.1.2018 |
| Selection intimation for paper presentation | : within 3 days of receipt of full paper |
| Commencement of the Conference | : 18.1.2018 |

ORGANIZING COMMITTEE

- | | |
|----------------------|---|
| Chief Patron | : Prof. Dr.K. BASKAR, Vice Chancellor, MSU |
| Patron | : Dr.A. John De Britto, Registrar, MSU |
| Convener | : Prof. J. Paulraj Joseph
Head, Department of Mathematics, MSU |
| Organizing Secretary | : Prof. S. Somasundaram, Department of Mathematics, MSU |
| Members | : Prof. T. Tamizh Chelvam, Department of Mathematics, MSU
: Prof.(Mrs).R. Kala, Department of Mathematics, MSU
: Dr.K. Selvakumar, Department of Mathematics, MSU
: Dr.S. Monikandan, Department of Mathematics, MSU
: Dr.V. Sankar Raj, Department of Mathematics, MSU
: Dr.A. Anu, Department of Mathematics, MSU
: Mrs. N. Anusha, Department of Mathematics, MSU. |

EDITORIAL COMMITTEE FOR PROCEEDINGS

1. Prof.(Mrs) R.Kala, Manonmaniam Sundaranar University, INDIA
2. Dr.K. Selvakumar, Manonmaniam Sundaranar University, INDIA
3. Dr.S. Monikandan, Manonmaniam Sundaranar University, INDIA

ADVISORY COMMITTEE

1. Prof. Michael A. Henning, Johannesburg University, South Africa
2. Prof. Noga Alon, Tel Aviv University, Israel
3. Prof. K.Parthasarathy, University of Madras, INDIA.
4. Prof. S.Arumugam, Kalasalingam University, INDIA.
5. Prof. G.Suresh Singh, University of Kerala, INDIA.
6. Prof. T.R.Rajasekaran, Manonmaniam Sundaranar University, INDIA.
7. Prof. N.Krishnan, Manonmaniam Sundaranar University, INDIA.
8. Prof. S.K.Vaidya, Saurashtra University, INDIA.
9. Prof. E.Sampathkumar, University of Mysore, INDIA.
10. Prof. S.Ramachandran, Noorul Islam University, INDIA.
11. Prof. A.Palavesam, Manonmaniam Sundaranar University, INDIA.
12. Prof. R.Balasubramanian, Manonmaniam Sundaranar University, INDIA.
13. Prof. P.Madhava Soma Sundaram, Manonmaniam Sundaranar University, INDIA.
14. Dr. G.Mahadevan, Gandhigram Rural Institute, INDIA
15. Dr. C.Sivagnanam, CAS-Sur, MOHE, Oman

Filled in registration form should be sent to

Organizing Secretary (ICDMA 2018)
 Department of Mathematics
 Manonmaniam Sundaranar University
 Tirunelveli – 627 012, Tamil Nadu.

Contact details

e-mail: icdma2018@msuniv.ac.in
 Cell No. 94423 31630 (Prof.S.Somasundaram)
 Convener & HoD : 94879 99610 (O), 94434 46595 (P)

Website: www.msuniv.ac.in

