

International Conference on Recent Trends in Topology and Its Applications

Organized by

Centre for Research in Mathematical Sciences,
St. Joseph's College (Autonomous), Irinjalakuda



Speakers

Dr. Robery L Devaney

Department of Mathematics
Boston University

Dr. Kit C Chan

Department of Mathematics,
Bowling Green State University

Dr. Sunil Jacob John

Department of Mathematics,
NIT, Calicut

Dr. P.B. Vinodkumar,

Professor and Head, Department of Mathematics,
Rajagiri School of Engineering & Technology, Kakkanad

BROCHURE

INTERNATIONAL CONGRESS ON

RECENT TRENDS IN TOPOLOGY AND ITS APPLICATIONS (ICRTA-2K18).

About the Host Department

The Department of Mathematics, St. Joseph's College (Autonomous), Irinjalakkuda, Kerala, is a centre for Post Graduate Studies and Research in Mathematics, affiliated to University of Calicut. The Centre for Research in Mathematical Sciences started functioning from December 2002. The thrust areas of the centre are Topology, Lie Algebras, Ordered Distributions, Cryptography, Fuzzy Mathematics. The centre has organized international, National, Regional level seminars and Workshops, under the support of MAJ, HR/MA, KSCIE, DIT, UGC etc.

About the Conference

International Conference on Recent Trends in Topology and Its Applications will be held at St. Joseph's College Irinjalakkuda, Kerala, during December 13-14, 2018. The Centre is organizing this conference as a token of remembering 40th year of PG Studies and 25 years of Research. Topology is one of the major thrust areas of research. Topology leads to topological data analysis an emerging field in the Data Science community, it has been successfully applied in areas such as fraud detection, medicine, genetics and sports. The most basic idea behind topological data analysis is that data has shape and shape has meaning. This means that the way the data behaves from the topological point of view can be used to extract information about that data. In addition, the possible link to data science in relation to topological dynamics and fractal geometry should also be considered in this context.

Call For Papers

The broad topics of interest include, but are not limited to, the following:

Algebraic Topology, Applications of Topology, Differential Topology, Ricci Topology, General Topology, Network topology, Topological Data Analysis.



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Centre for
Research in Mathematical Sciences
ST. JOSEPH'S COLLEGE (AUTONOMOUS), IRINJALAKKUDA

Accredited with 'A' level by NAAC
College with Potential for Excellence

math@stjosephs.edu.in

Invited Speakers

1. Robert L. Devaney, Boston University
2. Kir C Chan, Bowling Green State University
3. Prof. A J Jayanthan, Gaza University
4. Dr. Vinod Kumar P.B, Rajagiri School of Engineering & Technology, Cochin
5. Dr. Sunil Jacob, NIT Calicut

Organizing Committee

1. Dr. Vinod Kumar P.B, RSET, Cochin (Convener)
2. Dr. Mangalambal N.R (Convener)
3. Dr. Sr. Deveni C.J (Secretary)
4. Dr. Pily Jose P (Secretary)
5. Ms. Sherin Jose T (Member)
6. Ms. Sarda Joy (Member)
7. Ms. Dhanya V.S. (Member)
8. Ms. Alphy Joseph (Member)
9. Ms. Sonadas P (Member)
10. Ms. Vini P D (Member)

Institutional Advisory Board

1. Dr. Sr. Lissy Anto F., Principal
2. Dr. Mangalambal N.R., Head of the Department

Contact Details

1. Dr. Sr. Deveni C.J. deveni@stjosephs.edu.in
 2. Dr. Pily Jose P. pily@stjosephs.edu.in
- Ph: +91 9843798046, +91 8137983600

Important Deadlines

Registration	—	December 5, 2018
Submission of Abstract	—	November 20, 2018
Acceptance of Abstract	—	November 23, 2018
Submission of Full Length Paper	—	December 5, 2018
Notification of Acceptance	—	December 8, 2018

Registration Fees

For full time Research Scholars & PG Students	INR 400*
For other participants	INR 500*
For Paper Presentation	INR 1000

Link for Registration:

<https://www.google.com/stjosephs.edu.in/icrta-2k18>

Submitted manuscripts will go through plagiarism check before technical review. Only accepted and presented paper after peer review will be published in Proceedings.

* All the charges shown above are including the accommodation charges. Registration fee includes conference kit, lunch and tea during the conference.

- Accommodation will be arranged for participants at prior request.

Banner



Certificate



Academic Report

A two day International Conference on Recent trends in Topology and its Applications was organized in St. Joseph's College (Autonomous) Irinjalakuda, Kerala on 13/12/18 and 17/12/18 with a view to build a thorough outline of Topology and its applications among students and teachers. The conference which was decided to be conducted on 13/12/18 and 14/12/18 was conducted on 13/12/18 and 17/12/18 due to Harthal on 14/12/18. Sixty two participants including students and faculty members of different colleges were participated in the programme.



Inaugural Session



The two day International Conference was inaugurated in the Marian Hall, St. Joseph's college (Autonomous) Irinjalakuda by Prof. Robert L Devaney (Boston University). The programme was presided by Dr. Sr. Isabel (Principal, St. Joseph's College, Irinjalakuda) and Dr. N R Mangalambal (Head, Department of Mathematics, St. Joseph's College, Irinjalakuda) offered a formal welcome. Dr. Geetha K V (Former Head, Dept. of Mathematics, St. Joseph's College, Irinjalakuda) felicitated the occasion and the inaugural ceremonies ended up with the vote of thanks of Dr. Sr. Deeni C J (Assistant Professor, Dept. of Mathematics)

Report of Course in Brief

Day 1 (13/12/18)

Session 1

Dr. Robery L Devaney
Department of Mathematics
Boston University



Topic: Fractal Geometry

- Mandelbort Set
- Julia Set
- Fibonacci sequence

Day 1 (13/12/18)

Session 2

Dr. Kit C Chan

Department of Mathematics,

Bowling Green State University



Topic: Topology

- Basic properties of hypercyclic operators
- Non hypercyclic operator

Day 1 (13/12/18)

Session 3

Dr. Sunil Jacob John

Department of Mathematics,
NIT, Calicut



Topic : Topological Dynamics

- Tent map
- Self similar set
- Cantor set
- Sierpinski triangle

Day 2 (17/12/18)

Sessions 1& 2

Dr. P.B. Vinodkumar,

Professor and Head, Department of Mathematics,

Rajagiri School of Engineering & Technology, Kakkanad



Topic : Chaos Theory

- Topological Dynamics
- Topological Dimension
- Brief introduction to Chaos theory and its applications



In the valedictory session the participants shared their experience and Dr. N R Mangalambal proposed formal Vote of thanks. Certificates were distributed by the end of the programme. The programme concluded with a lunch.

Participants List

Research Orientation Programme -Registration Dated: 13/08/2018

S.No.	Name (English)	Designation	Institution	Sign
1	ADRIAN	Asst. Prof	Govt. St. Joseph's College of Science & Technology	<i>[Signature]</i>
2	ARITHA MOIDEEN A.K	M.Sc. Student	KKTM GOVT. COLLEGE, PULLUT	<i>[Signature]</i>
3	ARUNDA	M.Sc. Student	St. Joseph's College, Thiruvananthapuram	<i>[Signature]</i>
4	ATHIRA J. NAR	M.Sc. Student	KKTM GOVT. COLLEGE, PULLUT	<i>[Signature]</i>
5	AUSHA LAKSHMI V.S	M.Sc. Student	"	<i>[Signature]</i>
6	Ajaya Girish	M.Sc. Student	"	<i>[Signature]</i>
7	JASMEERAN S.S	"	"	<i>[Signature]</i>
8	ADITHYAN P	"	"	<i>[Signature]</i>
9	SOORAB P.T	"	"	<i>[Signature]</i>
10	ADARSH LAKSHMI V.N	"	"	<i>[Signature]</i>
11	Johnson Abhishek	Asst. Prof	Govt. Polytechnic College, Palla	<i>[Signature]</i>
12	ARUNA C.P	M.Sc. Student	KKTM GOVT. COLLEGE, PULLUT	<i>[Signature]</i>
13	IRISHA JAMES	Asst. Prof	St. Joseph's College, Thiruvananthapuram	<i>[Signature]</i>

Research Orientation Programme -Registration Dated: 13/08/2018

S No	Name	Designation	Institution	Sign
27	JOHN V A S	Asst. Mathematics	Sacred Heart College Chalakudy	[Signature]
28	Prasanna M.S	M.Sc. Mathematics	Sacred Heart College Chalakudy	[Signature]
29	Prasanna V	M.Sc. Mathematics	Sacred Heart College Chalakudy	[Signature]
30	Joseph Thomas	M.Sc. Mathematics	"	[Signature]
31	HAROLD JOSEPH	"	ST. JOSEPH'S COLLEGE ITH	[Signature]
32	DEEPIKA SIVAKANAKARAN	"	ST. JOSEPH'S COLLEGE ITH	[Signature]
33	Prathibha George	"	St. Joseph's College ITH	[Signature]
34	Mini N. Vijiya	"	"	[Signature]
35	Aparna K S	"	"	[Signature]
36	Angel Bose	"	"	[Signature]
37	Gandha Mary K J	"	"	[Signature]
38	Sonija M.S	"	"	[Signature]
39	Vandana K S	"	"	[Signature]

Research Orientation Programme -Registration Dated: 13/08/2018

S No	Name	Designation	Institution	Sign
✓ 14	Sejima B. George	Asst. Prof.	BVM HOLY CROSS COLLEGE, CHEPPUNKAL	[Signature]
✓ 15	Anju Thomas	Asst. Prof.	St. George's College, Aruvithana	[Signature]
✓ 16	Rabeena M.A.	M.Sc. Math	Govt. P.T.M. College, Kottayam	[Signature]
✓ 17	Ferns K J	M.Sc. Maths	Sacred Heart College Chalakudy	[Signature]
✓ 18	SUNITHA	M.A. ANATOMY	SACRED HEART COLLEGE, CHALAKUDY	[Signature]
✓ 19	SWAMI VARGHESE	Asst. Professor	SACRED HEART COLLEGE, CHALAKUDY	[Signature]
✓ 20	Shilpa Manjula Mathew	M.Sc. Mathematics	SACRED HEART COLLEGE, CHALAKUDY	[Signature]
✓ 21	JYHADISE JIM	M.Sc. MATHEMATICS	SACRED HEART COLLEGE, CHALAKUDY	[Signature]
✓ 22	IRINA JOY	M.Sc. MATHEMATICS	SACRED HEART COLLEGE, CHALAKUDY	[Signature]
✓ 23	Indira Aravind	M.Sc. Mathematics	Sacred Heart College, Chalakudy	[Signature]
✓ 24	FRANK CHRISTY S. BABY	M.Sc. Mathematics	Sacred Heart College, Chalakudy	[Signature]
✓ 25	BITTEENA CHARANCE	M.Sc. Mathematics	Sacred Heart College, Chalakudy	[Signature]
✓ 26	STEPHY JOSE	M.Sc. MATHEMATICS	"	[Signature]

Research Orientation Programme -Registration Dated: 13/08/2018

S No.	Name	Designation	Institution	Sign
40	Jincy K G	Msc student	St Josephs college, Thiruvananthapuram	Jincy
41	JITHY K N	Msc Student	" "	Jithy
42	JELITHA S N	" "	" " " "	Jelitha
43	VARSHA K B	Msc Student	" " " "	Varsha
44	AJITHA DEHAJY	MSc Student	" " " "	Ajitha
45	Farahna Qureshi N K	Msc Student	" " " "	Farahna
46	LAKSHYA A D	Msc student	" " " "	Lakshya
47	Umeshika A J	Msc Student	" " " "	Umeshika
48	Raja P S	Msc Student	" " " "	Raja
49	Geetha M J	Msc Student	" " " "	Geetha
50	Krishnakant M G	" "	" " " "	Krishnakant

Research Orientation Programme -Registration				Dated: 13/09/2018	
Sr No.	Name	Designation	Institution	Signature	Sign
61	Arvilly Joy	Student	St Joseph's college, Idukki		
62	Angela Fabray	Student	St Joseph's college, Idukki		
63	Aruna Perera Jay	"	"		
64	Aranya Jay	"	"		
65	Aravind Jay	"	"		
66	Aravind C	"	"		
67	Aravind P	"	"		
68	Aravind P	"	"		
69	Aravind P	"	"		
70	Aravind P	"	"		
71	Aravind P	"	"		
72	Aravind P	"	"		
73	Aravind P	"	"		
74	Aravind P	"	"		
75	Aravind P	"	"		
76	Aravind P	"	"		
77	Aravind P	"	"		
78	Aravind P	"	"		
79	Aravind P	"	"		
80	Aravind P	"	"		

Research Orientation Programme -Registration				Dated: 13/08/2018	
Sr No.	Name	Designation	Institution	Signature	Sign
61	Arvilly Joy	Student	St Joseph's college, Idukki		
62	JAYAN E. Y.	Student	"		
63	Anusha .G	"	"		
64	ANUSHA .G	"	"		
65	PRANVITHA PERERA	"	"		
66	ADARSH K K	"	"		
67	ANJALI P. R.	"	"		
68	Arvilly Joy	"	"		
69	Arvilly Joy	Asst. Prof.	St Joseph's college, Idukki		
70	Sowdas P	Guest Lecturer	"		
71	Shreem Jay T	Asst. Prof.	St Joseph's College, Idukki		
72	Sinde Jay	"	"		
73	V. S. P.	Guest Lecturer	"		

Research Orientation Programme -Registration				Dated: 13/08/2018	
Sr No.	Name	Designation	Institution	Signature	Sign
74	Jayanti V. S.	Asst. Prof.	St. Joseph's College, Idukki		