

Department of Mathematics
CHRIST (Deemed to be University), Bangalore

Activity Report

General Information

Type of Activity	<i>Seminar</i>
Title of the Activity	17th Graph Theory Day Celebration
Date/s	June 10, 2021,
Time	2.00 PM – 5.00 PM
Platform	WebEx Event
Collaboration/Sponsor (if any)	Academy of Discrete Mathematics and Applications

Speaker/Guest/Presenter Details

Name	Prof. Dr. Shariefuddin Pirzada
Title/Position	Professor, Department of Mathematics
Organization	University of Kashmir
Title of Presentation	Laplacian Spectra of Graphs

Name	Prof. Dr. Xavier Chelladurai,
Title/Position	Professor, Department of Computer Science and Engineering.
Organization	CHRIST (Deemed to be University)
Title of Presentation	Genetic Algorithms for Graph Theoretic Problems

Name	Prof. Dr. Domingos Cardoso,
Title/Position	Professor
Organization	University of Aveiro, Portugal
Title of Presentation	The H-join of arbitrary families of graphs.

(Add/repeat above rows if there is more than one Speaker)

Participants profile

Type of Participants	Faculty/Research Scholar
No. of Participants	350

Synopsis of the Activity (Description)

Highlights of the Activity	Talk by renowned personalities.
Key Takeaways	<ul style="list-style-type: none"> ▪ Scope for research in the field of Graph Theory ▪ Graph Algorithms and applications ▪ Interdisciplinary research
Summary of the Activity	Interactions with well known Graph Theoreties. They motivated the researchers by sharing their experience and discussed on the scope for the future work in Graph Theory.
Follow-up Plan, if any	Nil

Rapporteur

Name of the Rapporteur	Ms. Anisha Jean Mathias, Ms. Sandra Jestine and Ms. Vrinda Mary Mathew
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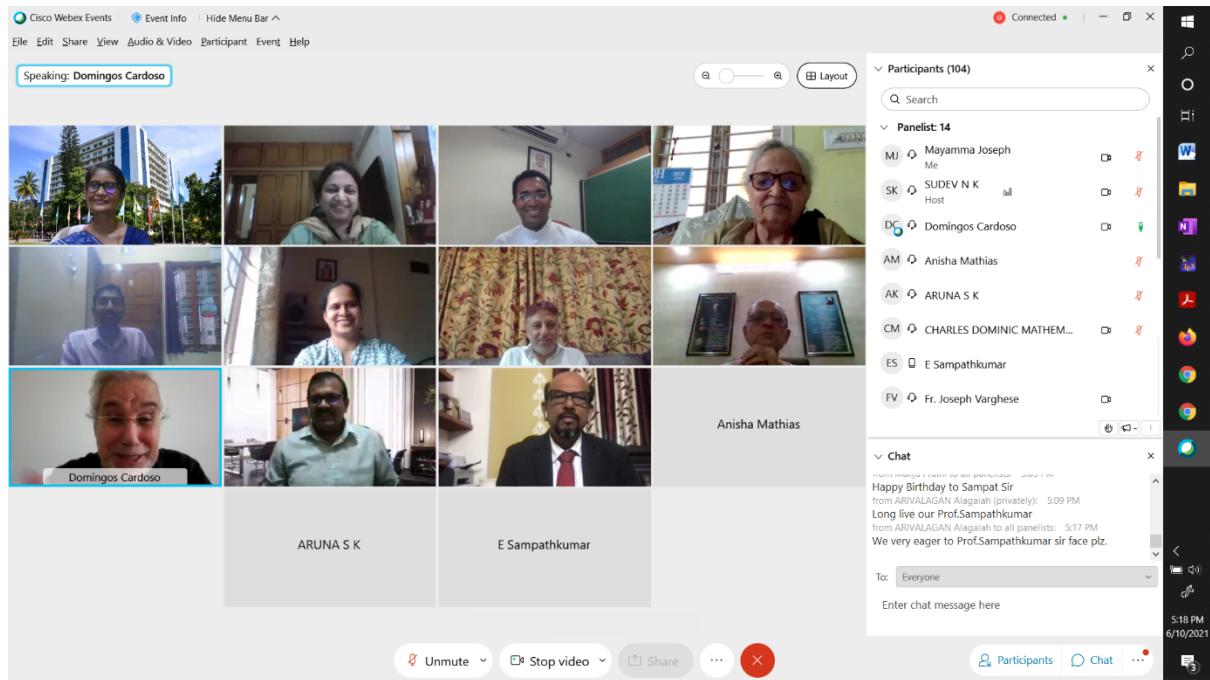
17th Graph Theory Day Celebration

The 17th Graph Theory Day was celebrated on June 10, 2021, on behalf of the Academy of Discrete Mathematics and Applications, by the department of Mathematics, CHRIST (Deemed to be University). To promote Discrete mathematics and its applications in India, the Academy of Discrete Mathematics and Applications (ADMA), declared June 10th as “Graph theory Day” and decided to celebrate it by holding important academic events on or around that date every year. Graph Theory Day is celebrated in remembrance of the contributions of Prof. E Sampathkumar who introduced Graph Theory as a taught University course for the first time in India at Karnatak University, Dharwad in 1970.

The Academy of Discrete Mathematics and Applications (ADMA) announced 10th June as “Graph Theory Day” in 2005 to promote discrete mathematics and its applications in India, and planned to mark the occasion by holding major academic events on or around that date every year. To commemorate this day, CHRIST (Deemed to be University) organized a WebEx Event from 2.00-5.00 pm on June 10, 2021. Nearly 350 participants attended the event. The event began with an overview of how ADMA came into existence and how graph theory research has progressed through time. Dr. Mayamma Joseph, HOD of CHRIST (Deemed to be University), delivered the opening remarks. Dr G.Sethuraman, President of the ADMA, then motivated the students by speaking about Prof. E. Sampathkumar’s dedication and hard work in furthering graph theory research.

The event’s first speaker was Dr Shariefuddin Pirzada, a professor at the University of Kashmir, Department of Mathematics, who spoke about “Laplacian Spectra of Graphs”. He discussed on graph Laplacian spectra, Brouwer’s conjecture, and the Laplacian energy problem, which is still open for research to work on. The event’s second speaker Dr Xavier Chelladurai, a professor at Christ University Kengeri Campus, Department of Computer Science and Engineering, presented on “Genetic Algorithms for Graph theoretic problems”. His discussion focused on how society is increasingly reliant on machine learning and artificial intelligence, as well as how we may solve graph theoretic problems using algorithmic approaches. The event’s final speaker was Dr Domingos Cardoso, professor at the University of Aveiro in Portugal, presented on “The H-join of Arbitrary Families of Graphs”. He talked about their findings on the H-join associated matrix and the Lexicographic product of graphs.

Following that, Prof E. Sampathkumar, Dr S K Vaidya, and Dr Mukti Acharya, who were all present in the meeting, delivered messages. Dr Sudev N. K., Associate Professor, CHRIST (Deemed to be University) gave excellent technical support to ensure the event's success.



Dr Medha Itagi Huilgol, Professor of Mathematics at Bengaluru University, gave the closing remarks and thanked everyone who attended the event.

Faculty In-charge
Dr. Sangeetha Shathish

Head, Department of Mathematics
Dr. Mayamma Joseph