International Conference on Nonlinear Analysis and Applications-2022
(ICNAA-2022)
22-23 November, 2022

Organized by

Department of Mathematics,
School of Fundamental and Applied Sciences,
Assam Don Bosco University,
Tapesia Garden, Sonapur-782402,
Assam, India.

In collaboration with
The Institute of Physics and Mathematics,
Technological University of the Mixteca, Oaxaca,
Mexico
and
Department of Mathematics
Ramniranjan Jhunjhunwala College
(Autonomous), Ghatkopar, Mumbai, India.

Conference will be conducted

Offline (For Indian Participants)
Online (For Foreign Participants)
https://www.dbuniversity.ac.in

ABOUT THE UNIVERSITY

Don Bosco University is a Salesians of Don Bosco (SDB) project executed by the Don Bosco Society, Azara, Guwahati. Presently, Salesians are working in 132 countries catering to over nine million young people worldwide; the Government of India has recognized Salesians as the single largest provider of technical education in India, second only to the Government. More than 100 Salesian technical schools and 25 colleges have been established in India. Scores of non-formal training centers, agricultural training centers, relief and rehabilitation centers, literacy centers, and shelters for street children in India are managed by the Salesians of Don Bosco.

ABOUT THE DEPARTMENT

The department has a robust research ambience manifested by the wide range of research areas including number theory, algebra, analysis, optimization, graph theory, data science, fluid dynamics, mathematics education etc. The department conducts workshops and hosts lectures delivered by eminent academicians at regular intervals to acquaint itself with state of the art in teaching and research. As a part of social commitment, the department strives for various outreach programmes to disseminate education to the ones lacking sufficient resource.
The courses offered by the Department are
➢ Undergraduate Programme in Science (B.Sc. in Mathematics)
➢ Postgraduate Programme in Mathematics (M.Sc. in Mathematics)
➢ Ph.D. Programme in various areas of Mathematics.

IMPORTANCE AND RELEVANCE OF THE CONFERENCE

The subject of mathematical analysis is of interest in its own right, and it also serves to lay the foundations for different fields of pure and applied mathematics. Researchers across the world are actively involved in analyzing and developing different theories of mathematics which are applicable to real-world problems. Through this conference, the recent progress and advances in the different fields of mathematical analysis will be shared. We try to bring fruitful research directions and collaborations in this field.

AIM AND OBJECTIVE OF THE CONFERENCE
➢ To exchange and disseminate the recent developments and advances in the area of Mathematical Analysis and Applications.
➢ To encourage the young researchers to study and pursue the research in recent topics of Mathematical Analysis
➢ To share the recent progress and advances in the area of Mathematical Analysis, Applications, and related fields.
➢ To bring fruitful directions and collaborations in this field.
➢ To provide a platform for researchers to present their findings and to give them an opportunity to interact with the experts working in the field.

THEME OF THE CONFERENCE
The main goal of this conference is to facilitate the researchers stay abreast with recent developments in various disciplines of mathematical analysis, ordinary and partial differential equations, fractional differential equations, dynamical systems, applied analysis, approximation theory, complex analysis, real analysis, numerical analysis, topology, and algebra, operator theory, fixed point theory and applications, optimization and its application, mathematical modeling in scientific disciplines. This conference will provide new directions through several plenary and invited talks by experts covering problems of current interest and important applications. The scientific program of the conference will consist of plenary and invited talks, session talks, and paper presentations.

TOPIC OF THE CONFERENCE INCLUDED (BUT NOT LIMITED TO):
Advanced Analysis and Applications, Algebra, Analytic Number theory, Applied Differential Equations. Applied Functional Analysis, Dynamical Systems and Fractional Calculus, Dynamical Equation on Time Scale, Fixed Point Theory and Applications, Plasma and Fluid Dynamics, Mathematical Physics, Combinatorics, Optimization and Game Theory, Numerical Analysis, .

KEYNOTE SPEAKERS

- **Prof. Ravi P. Agarwal, Texas A&M University, Texas, USA**
- **Prof. Erik Trell, Linköping University, Sweden**

INVITED SPEAKERS

- **Prof. Syed Abbas**, IIT Mandi, India
- **Prof. P. N. Agarwal,** IIT Roorkee, India
- **Prof. Martin Bohner**, Missouri S&, Rolla, USA
- **Prof. Surajit Borkotokey**, Dibrugarh University, India
- **Prof. Yuqun Chen,** South China Normal University, China
- **Prof. Pratulananda Das**, Jadavpur University, India
- **Prof. Xiuyun Guo**, Shanghai University, China
- **Prof. L. D. R. Kocinac**, University of East Sarajevo, Bosnia
- **Prof. Kishor D. Kucche**, Shivaji University, India
- **Prof. Eberhard Malkowsky**, University Union Nikola Tesla, Sebria
- **Prof. M. Mursaleen**, Aligarh Muslim Univeristy, India
- **Prof. Hemant Kumar Nashine**, VIT, Chennai, India
- **Prof. Kurunathan A/L Ratnavelu**, Universiti Malaya, Malayasia
- **Prof. Ekrem Savas**, Istanbul Ticaret University, Turkey
- **Prof. K. P. Shum**, Yunnan University, China
- **Prof. Valentin A. Skvortsov,** Lomonosove Moscow State University, Russia
- **Prof. B. C. Tripathi**, Tripura University, India

SCIENTIFIC ADVISORY COMMITTEE

- **Prof. Bipan Hazarika**, Gauhati University, India
- **Prof. Francisco J. Mendoza Torres**, Benemérita Universidad Autónoma de Puebla, Mexico
- **Prof. H. M. Srivastava**, University of Victoria, Canada
- **Prof. B. K. Sarma**, IIT-Guwahati, India
- **Prof. Jaydeb Sarkar**, ISI-Bangalore, India
- **Prof. S. A. Mohiuddine**, King Abdulaziz University, Saudi Arabia
- **Prof. J. Corner**, Ohio University, USA

IMPORTANT DATES

Date of Conference: 22 & 23 November 2022
Last date of Registration: 30th October 2022
Last date of Submission of Abstract: 30th October 2022
Submission of Full-length paper: 31st December 2022

SUBMISSION OF ABSTRACT

The participants are invited to submit the tex file (or word file) of abstract of their research articles using registration link.

REGISTRATION LINK

REGISTRATION FEES

Participants	Offline (INR)	Online (USD)
	Indian	**Foreign**
Academician	Rs. 3500	$200
Research Scholar	Rs. 1500	$100
Listener only	Rs. 500	$50

(Foreign participant willing to join the conference in offline mode in the campus are most welcome.)

The registration fees should be paid online through payment gateway provided in the online registration using Net banking/Credit Card/Debit Card.

In case any difficulty please contact Convener **Dr. Hemanta Kalita (Mobile number: - 0918811039996)**.

PUBLICATIONS

- Selected papers presented in the conference, after peer review will be published with in the ***Springer Proceedings of ICNAA-2022.***
- Further, High quality selected papers will be published in special issues of Scopus indexed SCIE/ESCI Journals (Proposal is submitted).

ACCOMMODATION

Accommodation will be provided on request in nearby hotels for which the tariffs have to be paid by the delegates/participants. However, breakfast and working lunch will be provided to all participants.

PATRON

- **Fr. (Dr.) Stephen Mavely**, Vice Chancellor , Assam Don Bosco University, India

LOCAL ADVISORY COMMITTEE

- **Fr. Joseph Nellanatt,** Pro Vice Chancellor , Assam Don Bosco University, India.
- **Fr. (Dr.) Johnny Jose,** Registrar, Assam Don Bosco University, India.
- **Prof. J. N. Viswakarma,** Director-Research, Assam Don Bosco University, India.
- **Prof. Manoranjan Kalita,** Director-SOT, Assam Don Bosco University, India.
- **Dr. Monmayuri Baruah,** Director-SFAS, Assam Don Bosco University, India.

LOCAL ORGANIZING COMMITTEE

- **Prof. Tarini Kumar Dutta**
- **Dr. Fokrul A. Mazar Bhuiya**
- **Dr. Sanjoy Kalita**
- **Dr. Ridip Sarma**
- **Dr. Bamdeb Dey**
- **Dr. Joy Roy**

CONVENER

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