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 - Prof. Rakesh Yadav, National Forensic Sciences University, Agartala, India
- ### EXPECTED INVITED SPEAKERS (Offline/Online)
- Prof. Dumitru Baleanu, Cankaya University, Turkey
 - Prof. Ali J. Chamkha, Kuwait College of Science and Technology, Kuwait
 - Prof. Carla M.A. Pinto, ISEP Portugal
 - Prof. Shiv Agarwal, BITS Pilani, Pilani, India
 - Prof. Vusula Ambethkar, University of Delhi, Delhi, India
 - Prof. Kuldeep Bansal, GJUST, Hisar, India
 - Prof. Amitabh Dube, SMS Medical College, Jaipur, India
 - Prof. C.B. Gupta, The Northcap University, Gurugram, India
 - Prof. A. Wahid Hasmani, Sardar Patel University, Vidhya Nagar, India
 - Prof. Harish Kumar, IIT Delhi, India
 - Prof. Shiv Datt Kumar, MNNIT, Allahabad, India
 - Prof. Trilok Mathur, BITS Pilani, Pilani, India
 - Prof. Sarla Pareek, Banasthali Vidyapith, Banasthali, India
 - Prof. Bandari Shankar, Osmania University, Hyderabad, India
 - Prof. Jagdev Singh, JECRC University, Jaipur, India
 - Prof. Kailash Singh, MNIT, Jaipur, India
 - Prof. Deepa Sinha, South Asian University, New Delhi, India
 - Prof. Om Prakash Suthar, MNIT, Jaipur, India
 - Prof. A.K. Vashishth, Kurukshetra University, Kurukshetra, India

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Hon'ble Vice-Chancellor, University of Rajasthan, Jaipur

CONVENER

PROF. PARESH VYAS

Head, Department of Mathematics, University of Rajasthan, Jaipur

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Associate Professor, Department of Mathematics
University of Rajasthan, Jaipur

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Ms. Pooja Meena, Assistant Professor

IMPORTANT DATES

Last date for abstract submission : 10th December, 2022

Notification for the acceptance of abstracts : 11th December, 2022

Last date for online registration : 14th December, 2022

On spot registration will be entertained however abstract will not be published.

- Contact us -

DEPARTMENT OF MATHEMATICS

University of Rajasthan, Jaipur, 302004

94143-44649, 0141-2708392

9982123280, 9660487898

icrwdim2022@gmail.com



राजस्थान विश्वविद्यालय
UNIVERSITY OF RAJASTHAN
(Established in 1947)

'धर्मो विश्वस्य जगतः प्रतिष्ठा'

Dharmovishvasya Jagatah Pratishtha

"The whole world is sustainable only
by virtue of Satya, Ahimsa, Tyag, Pragna
Karuna and Maitri"

International Conference

on

Real World Domains and Interfaces in
Mathematics : Challenges Tools & Strategies

ICRWDIM-2022

on

December 17th & 18th, 2022



- Organized by :-

DEPARTMENT OF MATHEMATICS
University of Rajasthan, Jaipur, Rajasthan, India

under the auspices of

THE NATIONAL ACADEMY OF SCIENCES, INDIA
Rajasthan Chapter



ABOUT THE UNIVERSITY

University of Rajasthan, Jaipur was established in 1947 as a multi-faculty University. The University offers UG, PG, M.Phil, Ph.D. programmes, Certificate and Diploma Courses in various disciplines at 37 Departments, 22 Centers and 6 Constituent Colleges besides 1350 Affiliated Colleges. The University with NAAC grade A accreditation was among top 15 Indian Universities with Potential for Excellence (UPE) in 2012. The University is known for its national and global imprints in research and provides state-of-art research facilities support through UGC-SAP, DST-FIST PURSE programmes, research projects funded by UGC, CSIR, DST, DRDO, DEIT, DBT, BRNS, ICMR, ICSSR, ICHR, ICAR and enriched by various international collaborations. With good infrastructural support, the University is an active hub of academic activities in various disciplines. The University is known for rich library, sports facilities, beautiful green campus, guest house and vibrant Human Resource Development Centre. See details on university website: <http://uniraj.ac.in>.

ABOUT THE DEPARTMENT

The Department of Mathematics, University of Rajasthan established in the year 1960, offers P.G., M. Phil. and Ph.D. Degree programmes. The Department is enriched with NBHM library and well-equipped Computer Laboratory set up under FIST program by DST. Department has been awarded DRS-II under SAP by the UGC for five years. The Department supporting research programmes in variety of domains of Pure and Applied Mathematics is known for quality research publications in national and international journals.

ABOUT THE CONFERENCE

Mathematics, as a discipline enables to tread on opportunities and tools to conceptualize problem-structures with varying complexities. Growth of various domains in Mathematics has been cornerstone to many profound discoveries. These findings resulted due to sheer robust Mathematical treatment substantiated with unequivocal theoretical and computational support. Diversification of research in Mathematics as a study tool and designing tool has unfolded plethora of interfaces in theory and practice cutting across different realms of pure and applied mathematics, engineering, chemical kinetics, life sciences, socio-economic sciences, industries etc. The urge for Mathematical support for such endeavours has led to state of art analytical/numerical computational techniques with robust simulations tools.

Advent of state of art software exploiting robust mathematics helped researchers to peep into rather complex real-world problems and to devise strategies for better understanding of the intricacies involved. In fact, Mathematical conceptualization of real world problems is cost effective as the existing or proposed systems can be conceived and tackled beautifully in Mathematical environment as one may witness in biomedical imaging, automobile industries, air defence equipment, naval architecture, socio-economic chaos,

economic policy design etc. that involve inverse problems, ODE and PDEs, harmonic analysis, complex analysis, numerical analysis, optimization, image analysis, calculus and several other concept of Mathematics.

The conference offers a platform to bring forth ideas, methods and tools to identify challenges, opportunities and strategies in real world problems with a central objective of blending Mathematical know-how to explore promising orbits of knowledge for their advantageous scientific and technological integration and applications to shape the current & future sciences/technology and furthering the cause of science education for better and enlightened world. The conference will be scheduled in Key note lectures followed by special and contributed sessions.

Topics of interest for submission of research papers/articles/notes are the following but not limited to:

- Advances in computational methods
- Algebra
- Bio-fluid Dynamics
- Boundary Layer Theory
- Computational Fluid Dynamics
- Computer Modeling and Validation
- Data Analysis and Image Processing
- Differential Equations
- Dynamical Systems, Chaos and Fractals
- Environmental Modelling and Applications
- Flow and Heat Transfer in Porous Media
- Fluid Mechanics
- Fractional Calculus
- Functional Analysis
- Graph Theory
- Heat Transfer and Thermal Processes
- Hybrid Methods
- Integral Transform and Special Functions
- Machine Learning and Artificial Intelligence
- Magnetohydrodynamics
- Mathematical Economics and Policy Design
- Modeling and Simulation
- Numerical Analysis
- Operations Research
- Perturbation Theory
- Quantitative Methods and Statistical Modeling
- Topology

ABOUT JAIPUR CITY

Jaipur, the Pink City founded in 1727 by Astronomer King Maharaja Sawai Jai Singh-II (1693-1743) is the capital of Rajasthan. The walled city area of Jaipur presents a unique heritage that is blessed with composite culture. It is known for its pink houses with latticed windows, historic monuments, jewellery and handicrafts. The city of Jaipur is famous on international tourism map as a vertex of Golden Triangle of Indian tourism i.e. Delhi-Agra-Jaipur due to its cultural and historical heritage that espoused fresh blending of traditions and ethnic fashions in fine silver and gold jewellery, handicrafts, precious and semiprecious stones, beads and bangles, blue pottery products, carpets and textiles and sumptuous cuisine. It is well connected with the rest of country by rail, road and air. The sites worth visiting are Amer Fort, Jaigarh Fort, Nahargarh Fort, City Palace, Jantar Mantar, Hawa Mahal, Albert Hall Museum, Galtaji to name a few. In the month of December, the city experiences winters with minimum temperature touching some time 10-14°C necessitating woollens.

CALL FOR PAPERS

Original unpublished research papers are invited for presentation in the Conference. Abstract (in MS Word only) typed in 1.0 spacing restricted to a maximum 200 words depicting problem statement and involved idea/solution strategy be uploaded in registration form, for publication in Souvenir latest by 10th December, 2022. The Abstracts received after the due date will not be considered for publication in the Souvenir, however the paper presentation will be facilitated.

REGISTRATION

The registration fee structure for attending the conference is as follows:

Academic Delegate	₹ 3000
Industry Delegate	₹ 4000
Foreign Delegate	\$120

Registration fee can be paid through online fund transfer to the account :

A/C Name: ICRWDIM-2022 UNIVERSITY OF RAJASTHAN JAIPUR
Account Number: 674701702537

Bank: ICICI Bank, University Campus, Bapu Nagar,
Jaipur, Rajasthan (IFSC Code: ICIC0006747)

To complete the registration process attendees should fill the Google form available at the following link:
<https://forms.gle/xq8BaC9gmsRSmDwM7> In case of any queries please feel free to contact.

NOTE: 1. The registration fee includes charges for registration kit, lunch and refreshment provided during the conference hours. It does not include boarding and lodging charges.
2. Local participants can deposit registration fee by Cash

