



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)
26th-28th October 2021 (ONLINE)

CONIAPS XXVII

26th -28th October 2021 (ONLINE)

27th International Conference of International Academy of Physical Sciences

on

Recent Advances in Mathematical and Computational Optimizations (RAMCO-2021)



Organized by

School of Computational and
Integrative Sciences, J.N.U., New
Delhi-110067, India

in association with

International Academy of Physical Sciences
(IAPS)



No Registration Fee

Audience: Students, Researchers, Faculty Members & Research Scholars

E-certificate* will be given to the registered participants after successful completion of the event and feedback form submission

*Submission of Feedback form is mandatory for receiving E-Certificate

Zoom Link for Recent Advances in Mathematical and Computational Optimizations (RAMCO-2021)

Time: Oct 26, 2021 10:30 AM India
Join Zoom Meeting

<https://us02web.zoom.us/j/82419498613?pwd=TDI6Q2pTVjdjdz3R3RVV2RoeG5kZz09>

Meeting ID: 824 1949 8613
Passcode: 098451

Event and Contact Details

Date: 26th -28th October 2021

CONTACT: +91- 9910136414 (GPS)

For any query please E-mail:**

jnuconiaps@gmail.com

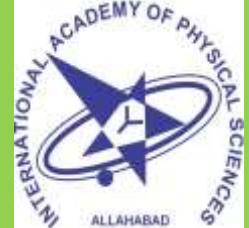
☞ <http://ccbb.jnu.ac.in/ramco21/>

Online Venue:

SC&IS, JNU, New Delhi-110067, India

Dr Gajendra Pratap Singh (Program Chair & Convener),

School of Computational and Integrative Sciences, JNU, New Delhi, India



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Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

**CONIAPS
XXVII**

**27th INTERNATIONAL CONFERENCE OF IAPS (ONLINE) ON
Recent Advances in**

Mathematical and Computational Optimizations (RAMCO-2021)

Jointly organized by

School of Computational and Integrative Sciences, JNU, New Delhi-110067

&

International Academy of Physical Sciences (IAPS)

**26th -28th
October
2021
(ONLINE)**

GENERAL INSTRUCTIONS FOR THE PARTICIPANTS

Dear Participants/Friends,

Thank you for your registration to attend this Webinar. The webinar will be held on **Zoom App**. We request you to download the Zoom App on your laptop or mobile phone prior to start of the event. **The link is being shared in the mail**. We request you to kindly follow the instructions mentioned below for smooth conduction of the webinar:

- ☞ Join the webinar 15 minutes prior to the **session as per schedule and as per Indian time (IST)** - avoid last moment technical rush. The webinar shall start **sharp at 10:45 am (IST) on (Day 1)**. **Late comers may not be admitted!!!** In case we exceed the capacity limit, participants may be asked to join via Facebook / YouTube, etc. The link will be shared through **RAMCO-2021 Whatapps group only**.
- ☞ Please find the zoom android application link here
<https://play.google.com/store/apps/details?id=us.zoom.videomeetings&hl=en>
- ☞ iPhone users can find zoom app link here <https://apps.apple.com/in/app/zoom-cloud-meetings/id546505307>
- ☞ For zoom tutorials use the link <https://zoom.us/resources>
- ☞ You will need a stable internet connection;
- ☞ If you are using **mobile phone or tab** to access the webinar you are requested to **install "Zoom cloud meetings"** from play store or app store. Click "**open**" Then click on the link provided and give necessary access permissions. Click "**Join a Meeting**". Enter "**Meeting ID**". Then click "**join Meeting**".
- ☞ If you are using the **laptop or desktop** then please **click on the link above** to join the webinar, give necessary access permissions and click on "**join Meeting**".
- ☞ Enter the meeting Room with your "**Registered Name**" only (You need to rename yourself to your Registered name - From the Zoom Room click on the "Participants" icon at the bottom of the window > Click the "Rename" button > Enter your new name in the "New Screen Name" field and be sure to have the "Remember my name for future meetings" checked >"OK".
- ☞ Use chat only when you have something to ask or Say.
- ☞ Don't type 'Good morning', 'Good Evening', Your Introduction and other greetings along with your affiliation in the CHATBOX.
- ☞ Kindly put your microphone on mute and switch off your camera throughout the session for an uninterrupted experience.
- ☞ Please note that upon joining, you will be automatically muted, which means, you can hear what the Speaker/hosts say but you will not be able to speak. If you wish to ask any question, please type in your **Q&A Tab which will be visible on your screens**. Request you to please keep it very professional and only ask questions related to the content of the webinar only.
- ☞ Questions related to the lecture can be posted in the chat box and shall be answered by the speaker at the end of the webinar.
- ☞ If you face issues in audio/video or any other technical issues, please check your system configurations as this app is very user friendly and should not have any major issues. Please ensure that your firewall does not block the app and the audio of your systems is not muted.
- ☞ Use headphones for better audio.
- ☞ You are requested not to share the link with others who have not registered for the webinar.
- ☞ **The participants who will attend the 3-day session of the conference and fill the feedback form will be provided with E-certificate.**
- ☞ Attendance will be strictly monitored by the organizing team. E-certificates will be awarded on the basis of that.
- ☞ In case of any queries you can get in touch with the **ADMINS of RAMCO-2021 Whatapps group**, or via phone call or whatsapp message to Dr Gajendra Pratap Singh +91 9910136414 or email: jnuconiaps@gmail.com

Note: The Participants are requested to observe patience regarding the E-certificate and kindly do not bother the organizers by constantly mailing and calling back.

We look forward to see you in Conference

Regards, Team Conference



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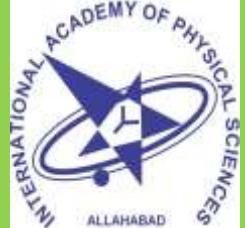
Distinguished Guests



Professor Rana Pratap Singh
(Pro-Vice Chancellor)
Jawaharlal Nehru University,
New Delhi-110067, India

Chief Guest  Professor S.K. Neogy, Indian Statistical Institute, New Delhi- 110016, India	Guest of Honor  Professor H S Dhami (Former Vice Chancellor) Uttarakhand Residential University; Kumaun University, Nainital, India	Guest of Honor  Professor Avanish Kumar, Department of Mathematics, Bundelkhand University, Jhansi, U.P., India
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 Professor Binod Kumar Kanaujia Dean, SC&IS, JNU	 Dr. Gajendra Pratap Singh(Convenor, RAMCO- 2021) SC&IS, JNU, India
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Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

Plenary Speakers



Dr. D. S. Hooda, Emeritus Professor, G.J. University, Hisar, India



Prof. Durgesh Nandini Sinha, Temple University (USA), Community College of Philadelphia



Prof. S.K. Neogy, Indian Statistical Institute, New Delhi-110016, India



Prof. Nita H. Shah, (HOD, Mathematics, Gujarat University, Gujarat, India)



Prof. Dmitry Zaitsev, Odessa State Environmental University, 15 Lvivska Str., Odessa, 65016, Ukraine
(Dr.Sci., Professor, Senior Member of ACM and IEEE)



Professor Pankaj Gupta, Department of Operational Research, University of Delhi, Delhi, India



Professor V Sree Hari Rao, Foundation for Scientific Research and Technological Innovation, Hyderabad-500102, India



Professor Kusum Deep, Department of Mathematics, Indian Institute of Technology, Roorkee, U.K., India



Professor Vijay Gupta, Department of Mathematics, Netaji Subhas University of Technology, New Delhi, India



Professor Sangita Kansal, Department of Applied Mathematics, Delhi Technological University, Delhi, India



Professor Avanish Kumar, Department of Mathematics, Bundelkhand University, Jhansi, U.P., India



Professor Anu Gupta Aggarwal, Department of Operational Research, University of Delhi, Delhi, India



Prof. Sanjeev Kumar, Department of Mathematics, (Dr. Bhimrao Ambedkar University, Agra), India



Professor Anuradha Sharma, Department of Mathematics, IIIT-Delhi, India



Professor Vusala Ambethkar, Department of Mathematics, University of Delhi, Delhi, India

Link for Day 1, Day 2, Day 3 (October 26-28, 2021)

Gajendra Pratap Singh is inviting you to a scheduled Zoom meeting.

Topic: Recent Advances in Mathematical and Computational Optimizations (RAMCO-2021)

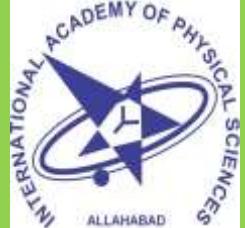
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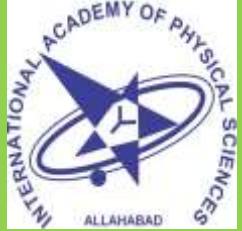
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26th-28th October 2021 (ONLINE)

Eminent Invited Speakers

Prof. Albert Shikongo, Mathematical Science Department , University of Namibia	Prof Tandra Pal, Department of Computer Science and Engineering, National Institute of Technology, Durgapur, India	Professor A.K. Mohapatra, Department of Information Technology, IGDTUW, Delhi, India	Prof Devendra K. Tayal, Indira Gandhi Delhi Technical University for Women, Kashmere gate Campus, Govt. of NCT Delhi, Delhi, India	Professor Kajla Basu, Department of Mathematics, National Institute of Technology, Durgapur, India	Professor Anita Pal, Department of Mathematics, National Institute of Technology, Durgapur, India
Prof Samarjit Kar, Department of Mathematics, National Institute of Technology, Durgapur, India	Prof Deepa Sinha, Department of Mathematics, South Asian University, New Delhi, India	Dr. Mukesh Kumar Mehlawat, Department of Operational Research, University of Delhi, Delhi, India	Professor H S Dhami (Former Vice Chancellor) Uttarakhand Residential University; Kumaun University, Nainital, India	Prof Jagdish Chand Bansal, Department of Mathematics, South Asian University, New Delhi, India	Professor S. Ramanarayana Reddy, Department of Computer Science and Engineering, IGDTUW, Delhi, India
Professor Mansaf Alam, Department of Computer Science, Jamia Millia Islamia, New Delhi, India	Prof Tarkeshwara Singh, Birla Institute of Technology, Goa Campus, Goa, India	Dr Prashant Kumar, Department of Applied Mathematics, National Institute of Technology, Delhi, India	Professor T.V. Vijay Kumar, School of Computer and System Sciences, Jawaharlal Nehru University, New Delhi, India	Dr. Shashi Kant Scientist C, National Weather Forecasting Centre O/o Director General Meteorology India Meteorological Department Mausam Bhawan, New Delhi, India	Prof. R.K. Brojen Singh, School of Computational and Integrative Sciences, JNU, India
Dr. Anurag Singh, Department of Computer Science and Engineering, National Institute of	Dr. Goutam Panigrahi, Department of	Dr. Ratneshwer, School of Computer & Systems Sciences, Jawaharlal Nehru	Dr. Kaushal Kumar, Department of Operational Research, Faculty of	Dr. Pratima Rai, Department of Mathematics, University of Delhi, India	Dr. Arunima Jaiswal, department of Computer Science and Engineering, IGDTUW, Delhi, India



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

Technology, Delhi, India	Mathematics, NIT Durgapur, India	University, New Delhi, INDIA	Mathematical Sciences, University of Delhi, Delhi, India		
 Dr. Amita Sharma, Department of Mathematics, Netaji Subhas University of Technology, Delhi, India	 Dr. Kumud Tripathi, Department of Computer Science & Engineering, National Institute of Technology Sikkim, Sikkim, India	 Dr. Goonjan Jain, Department of Applied Mathematics, Delhi Technological University, Delhi, India	 Dr. Anupam Gautam, Department of Mathematics, Netaji Subhas University of Technology, Delhi, India	 Dr. Dhirendra Kumar, Department of Applied Mathematics, Delhi Technological University, Delhi, India	 Dr. Gajendra Kumar Vishwakarma Department of Mathematics and Computing, IIT ISM, Dhanbad, India
 Dr. Varun Kumar Professor, Department of Mathematics. College of Natural and Computational Sciences Aksum University, Axum, Ethiopia	 Professor Sapna Ratan Shah, SCIS, JNU, New Delhi, India	 Prof. Ebenezer Bonyah, Department of Mathematics and Statistics, Kumasi Technical University, Kumasi, Ghana, Department of Mathematics, Vaal University of Technology, Vanderbijlpark, South Africa	 Dr Nanda Dulal Jana, Computer Science & Engineering Department of National Institute of Technology Durgapur, India	 Dr. Sangram Ray, dept of Computer Science and Engineering, NIT Sikkim, Sikkim, India	 Prof Manju Khari, SCSS, JNU, New Delhi, India
 Dr. Neetu Gupta, Professor and Head, Department of Mathematics, YMCA, Faridabad, Haryana, India	 Dr. Gajendra Pratap Singh, SC&IS, JNU, India				



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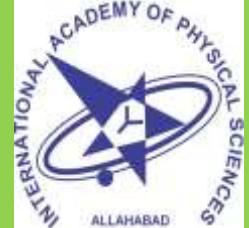
Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021) 26th-28th October 2021 (ONLINE)

Program Schedule (RAMCO Day-1) Tuesday 10:45 a.m. - 08:00 pm (IST) 26 October 2021

Day 1 (26-October-2021), Tuesday

Inaugural Session and Opening Remarks (10:45am-11:45am IST time)

Time (IST)	Event/Activity	Speaker
10:45 am – 10:50 am	About the conference	Dr. Gajendra Pratap Singh, Convenor, RAMCO-2021, JNU, New Delhi, India
10:52 am – 11:00 am	Welcome address by	Prof. B.K. Kanaujia, (Dean, SC&IS), JNU, New Delhi, India/Prof. A. Krishnamachari, SCIS, JNU, New Delhi
11:02 am – 11:12 am	Address by Guests of Honour	Prof. H.S. Dhami, (Vice-President, IAPS, Pragraj, India)
11:14 am – 11:20 am	Inaugural Address by Chief Guest	Dr. Avanish Kumar, Professor, Department of Mathematics, Bundelkhand University, Jhansi, U.P., India
11:22 am – 11:37 am	Presidential Address by	Prof. Samir Kumar Neogy, Head, Indian Statistical Institute, Delhi Centre, India
11:39 am – 11:50 am		Prof. Rana Pratap Singh, Pro-Vice Chancellor, JNU, New Delhi
11:51 am – 11:55 am	Vote of Thanks	Dr. Gajendra Pratap Singh, SC&IS, JNU, New Delhi, India/Prof. Sapna Ratan Shah, SC&IS, JNU, New Delhi



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Day 1 (26-Oct-2021)
Tuesday

Technical Sessions

Session-1 (Plenary Talk-1)

Chaired by: Professor T.V. Vijay Kumar, School of Computer and System Sciences, Jawaharlal Nehru University, New Delhi, India

Time (IST)
12:00 pm - 12:35 pm

Topic	Name of Speaker
Sine Cosine Algorithm for Global Optimization	Professor Kusum Deep, Department of Mathematics, Indian Institute of Technology, Roorkee, U.K., India

Session-2 (Plenary Talk-2)

Chaired by: Professor T.V. Vijay Kumar, School of Computer and System Sciences, Jawaharlal Nehru University, New Delhi, India

Time (IST)
12:36 pm - 01:10 pm

Topic	Name of Speaker
Infinite Petri Nets	Prof Dmitry Zaitsev, Odessa State Environmental University, 15 Lvivska Str., Odessa, 65016, Ukraine (Dr.Sci., Professor, Senior Member of ACM and IEEE)

Break (01:10pm to 02:00pm)

Session-3 (Plenary Talk-3)

Chaired by: Dr. Sapna Ratan Shah, SCIS, JNU, New Delhi, India

Time (IST)
02:00 pm - 02:35 pm

Topic	Name of Speaker
Petri Nets and Reachability Applications	Dr. Gajendra Pratap Singh, SCIS, JNU, New Delhi-110067

Session-4 (Invited Talk-1)

Chaired by: Prof Manju Khari, SCSS, JNU, New Delhi, India

Time (IST)
02:36 pm - 03:10 pm

Topic	Name of Speaker
Metaheuristic Optimization	Professor T.V. Vijay Kumar, School of Computer and System Sciences, Jawaharlal Nehru University, New Delhi, India



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Session-5 (Plenary Talk-4)

Chaired by: Prof Manju Khari, SCSS, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker:
03:11 pm - 03:55 pm	Role of Management Reviews in Software Reliability	Professor Anu Gupta Aggarwal, Department of Operational Research, University of Delhi, Delhi, India

Session-6 (Invited Talk-2)

Chaired by: Professor Mansaf Alam, Department of Computer Science, Jamia Millia Islamia, New Delhi, India

Time (IST)	Topic	Name of Speaker:
03:56 pm - 04:25 pm	Applying Fuzzy Sets in Natural Language Processing Applications	Prof Devendra K. Tayal, Indira Gandhi Delhi Technical University for Women, Kashmere Gate Campus, Govt. of NCT Delhi, Delhi, India

Session-7

(Invited Talk-2)

Chaired by: Professor Mansaf Alam, Department of Computer Science, Jamia Millia Islamia, New Delhi, India

Time (IST)	Topic	Name of Speaker
03:56 pm - 04:25 pm	Challenges and issues in cyber security	Prof Manju Khari, SCSS, JNU, New Delhi, India

Session-7

(Invited Talk-3)

Chaired by: Professor Mansaf Alam, Department of Computer Science, Jamia Millia Islamia, New Delhi, India

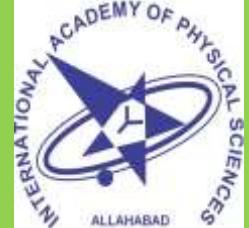
Time (IST)	Topic	Name of Speaker
04:26 pm - 04:55 pm	An application of fuzzy and neutrosophic logic on an economic order quantity model	Professor Anita Pal, Department of Mathematics, National Institute of Technology, Durgapur, India

Parallel Sessions (Day 1) 5:00pm-7:30pm(IST)

Parallel Sessions P1

5:00pm-8:00pm(IST)

Parallel Sessions Presentations followed by Invited Talks	Coordinator Names:	Session Chairperson(s):
Day 1(26-Oct-2021)	<p>Dr. Neha Bhardwaj, Amity University Noida, India Mobile no. +91- 9560102707 E-mail: nbhardwaj1@amity.edu</p>	<p>Dr. Sanjay Kango, Department of Mathematics, Government College Barsar, Hamirpur, HP, India, E-mail: skkango72@gmail.com Mobile no. +91-9418158892</p> <p>Dr. Ramesh Chand, Department of Mathematics, Government College Nupur, Kangra, HP, India E-mail: rameshnahan@yahoo.com</p>

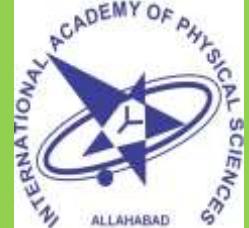


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Time (IST)		Time(IST)	Title of Talk	Speaker(s) Name
Parallel Session P1: 05:00 pm - 08:00 pm	Speaker 1: (IT-4)	05:00pm-5:25 pm	Application of Mathematics and statistics in weather forecasting, meteorology and other allied areas	Dr. Shashi Kant, Scientist C, National Weather Forecasting Centre Meteorological Department Mausam Bhawan, New Delhi, India
	Speaker 2: (IT-5)	05:26pm-5:50 pm	Performance Analysis of DRX Mechanism in LTE-A Networks using Markov Modeling	Dr. Anupam Gautam, Department of Mathematics, Netaji Subhas University of Technology, Delhi, India
	S.No.	Paper Code	Time	Presenter's Names
	1	AMATH/001		Dr.K.Kalaiarasi
	2	AMATH/002		Anju Khandelwal
	3	AMATH/003 (05:50 pm to 08:00 pm)		DR. EKATA
	4	AMATH/004		Shavitha M
	5	AMATH/005		Jenitha Vinnarasi R
	6	AMATH/006		M.Hymavathi
	7	AMATH/007 Presentation Duration 7min		Dr. Abhishek Mehta
	8	AMATH/008		Vineet Kumar
	9	AMATH/009		Surbhi Gupta
	10	AMATH/010		Dr Anshu Malhotra
	11	AMATH/011		Sunil Kumar Sahoo
	12	AMATH/012		Vivek Kumar



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13	AMATH/013	Abdussalam Ali Ahmed	Simulation Research on Vehicle Handling and Stability Enhancement Based on PID Control Technology
14	AMATH/014	Shipra Chauhan	Existence and stability of the equilibrium points in the Robe's-Finite straight segment model
15	AMATH/015	Dr. Rahidas Kumar	Direct Numerical Approaches on Linear Optimization Problems for Analytical Solution
16	AMATH/016	Deepti	Analytical study of radiation absorption effect on unsteady MHD free convection flow past a periodically accelerated plate with variable temperature
17	AMATH/017	A.Sivagama sundari	Sustainable medical supply chain network during pandemic by using fuzzy inventory
18	AMATH/018	Dr Archana Sharma	Optimal Inventory Policy for deteriorating items under inflation with stock-dependent demand
19	AMATH/019	Bilal Ahmad Bhat	A NOTE ON KARLSSON-SRIVASTAVA TERMINATING SERIES 3F2(1) AND 3F2(1/2) WITH APPLICATIONS
20	AMATH/020	Bharti Chauhan	Extended Generalized t-Guass Hypergeometric Functions and its Applications
21	AMATH/020	Sumit Kumar	Finite straight segment model of Robe's restricted three-body problem under the effect of viscosity.
22	AMATH/020	Kavita Arora	A Biochemical Study of enzymatic biosensor using system of non-linear equations

Parallel Sessions P2

5:00pm-8:00pm(IST)

Day 1(26-Oct-2021)

Parallel Sessions Presentations followed by Invited Talks

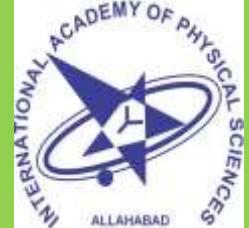
Coordinator Names:

Dr Ratneshwer, SCSS, JNU, India
E-mail: ratneshwer@gmail.com
Mobile no. +91-9450533296

Session Chairperson(s):

Dr. Neetu Gupta, Professor and Head, Department of Mathematics, YMCA, Faridabad, Haryana, India
E-mail: neetuymca@yahoo.co.in, neetuymca@gmail.com
+91-9953505828

Dr. Sanjay Yadav, Department of Mathematics, North Cap University, Gurugao, Haryana, India
E-mail sanjayyaday@ncuindia.edu



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Time (IST)	Time(IST)			Title of Talk	Speaker(s) Name	Mobile no. +91-9818767542
	Speaker 1: (IT-5)	05:00pm-5:25 pm	Fitted mesh finite difference scheme for singularly perturbed delay differential equations			
05:00 pm - 08:00 pm	Speaker 2: (IT-7)	05:26pm-5:50 pm	Performance analysis of Queueing theory	Dr. Neetu Gupta, Professor and Head, Department of Mathematics, YMCA, Faridabad, Haryana, India		
S.No.	Paper Code	Time	Presenter's Name	Title		
1	MATH/001		Ajay Sharma	Fractional Differential Equations with Hilfer-Hadamard Fractional Derivative		
2	MATH/002		Pratibha Manohar	Generalized Differential Transform for Caputo-Katugampola Fractional Order Circuits		
3	MATH/003	(05:50 pm to 08:00 pm)	Amit Kumar	Lie symmetry Analysis for obtaining the Analytical wave solutions and dynamics of solitons of the (3+1)-dimensional generalized KP equation		
4	MATH/004		R. Radha	Generalized Pre-closed Sets in Pentapartitioned Neutrosophic Pythagorean Topological Spaces		
5	MATH/005		Lata Chanchlani	On Katugampola Fractional q-Integral and q -Derivative		
6	MATH/006		Faizan Ahmad Khan	A Class of Random Generalized Variational-like Inclusion with Random Fuzzy Mappings		
7	MATH/007		Mohd Iqbal	H(., ., ., .)- ϕ - η -COCOERCIVE OPERATOR WITH AN APPLICATION TO VARIATIONAL INCLUSIONS		
8	MATH/008	Presentation Duration 7min	Javid Majid	A CLASS OF EXTENSIONS AND GENERALIZATIONS OF K ^U MMER'S THIRD SUMMATION THEOREM		
9	MATH/009		Hemant Kumar	On Multiple Hurwitz-Lerch Type Zeta Function and Lauricella Function		
10	MATH/010		Surbhi Beniwal	Tensor products of local operator systems		
11	MATH/011		Deepak Tiwari	A STUDY ON THE NON-ASSOCIATIVE RINGS AND DEVELOPMENTS		
12	MATH/012		P. Elavarasan	On $K\delta\cap\delta\cap\delta^*$ Closed Set		
13	MATH/013		M Fareeda Banu	On Weak B-bi regular in bi-near subtraction semigroup		
14	MATH/014		DEVENDRA KUMAR	A Linear and Nonlinear Study Of Soret Driven Instability In Darcy Oldroyd-B Nanofluid		
15	MATH/015		ANAND KUMAR	A SPECIAL TYPE OF OPERATOR CALLED (4,2)- JECTION		



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16	MATH/016	Iqbal Kour	Normal families of holomorphic functions of several complex variables
17	MATH/017	Yashwant Kumar Panwar	On Some Identities of Bivariate Fibonacci and Bivariate Lucas Polynomials
18	MATH/018	Krithika V	On fuzzy semi open sets
19	MATH/019	M Fareeda Banu	Strong Bi-ideals in Bi-near Subtraction Semigroup
20	MATH/020	ANKIT MAURYA	STUDY ON SEMI "SYMMETRIC CONTACT RIEMANNIAN MANIFOLD
21	MATH/021	Anita	Certain Definite Integral associated to Complete Elliptical Integral

Parallel Sessions P3

5:00pm-8:00pm(IST)

Day 1(26-Oct-2021)

Parallel Sessions Presentations followed by Invited Talks

Coordinator Names:

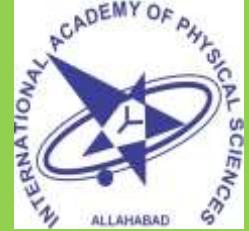
Dr. Ashwani Kumar, School of Engineering, JNU, New Delhi, India
E-mail:
ashwanikumar@mail.jnu.ac.in
ashwanikumar7@yahoo.com
Mobile no. +91-9999654486

Session Chairperson(s):

Dr. Randheer Singh, Department of Mathematics, University of Delhi, Delhi-110007, India
E-mail:
randheernsit@gmail.com
Mobile no. +91-9716482186

Dr. Pramod S. Nair
Professor & Head
Department of Computer Science and Engineering
Medi-Caps University.
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hodcse@medicaps.ac.in
Mobile: +91-9179197691

Time (IST)		Time(IST)	Title of Talk	Speaker(s) Name
05:00	Parallel Session P3:	Speaker 1: (IT-8) 05:00pm-5:25 pm	Bias-corrected intuitionistic fuzzy c-means with spatial neighborhood information approach for human brain MRI image segmentation	Dr. Dhirendra Kumar, Department of Applied Mathematics, Delhi Technological University, Delhi, India
		Speaker 2: (IT-9) 05:26pm-2:50	Gene Expression Data Analysis Using Bayesian	Dr. Gajendra Kumar Vishwakarma Department of Mathematics and

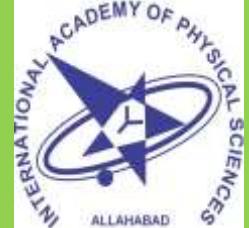


Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

pm - 08:00 pm		pm	State-Space Modeling	Computing, IIT ISM, Dhanbad, India
S.No.	Paper Code	Time	Presenter's Name	Title
1	MATH/022		Aruna Sakthi K	R-LUCKY LABELING OF SOME ALGEBRAIC GRAPHS
2	MATH/023	(05:50 pm to 08:00 pm)	Nishant	Applications of Redundant System in Science and Technology
3	MATH/024		Ved Nath Jha	Extinction Ratio and its effect on the Nonlinearity in Optical Fiber Networks
4	MATH/025		Bhavneet Kaur	Perturbed Robe-Finite Straight Segment model with arbitrary density parameter
5	MATH/026		DINESH KUMAR	Effect of straight segment on the restricted problem of 2+2 bodies
6	MATH/027		R.Radha	Pentapartitioned Neutrosophic Pythagorean Pre-open Sets
7	MATH/028		PANKAJ KUMAR BHARTI	Flow Between Parallel Plates for Non-Newtonian Fluids
8	MATH/029	Presentation Duration 7min	Baljinder Kour	Analysis of generalized form of fractional KdV system for analytic solution and conservation laws
9	MATH/030		Harindri Chaudhary	Controlling Hyperchaos in Non-Identical Systems via Active Combination-Combination Synchronization
10	MATH/031		SANJEEV GUPTA	Generalized systems of relaxed cocoercive variational inequalities
11	MATH/032		Samina Boxwala	Some Bounds For Product Dimension of a class of Trees
12	MATH/033		KAPIL SHANKAR GAUR	CYCLIC GENERALIZED REED MULLER CODE
13	MATH/034		ANURAG KUMAR	A modified fifth order shock capturing scheme for hyperbolic conservation laws
14	MATH/035		Savita Panwar	Multi-Indexed Whittaker Function and Its Properties
15	MATH/036		Pradeep Kumar Singh	Binary Adaptive Differential Transform Method and Application to linear Differential Equation
16	MATH/037		Ashish Kumar Pandey	ON POLYGONAL MERSENNE AND POLYGONAL FERMAT NUMBERS
17	MATH/038		Yashwant Kumar Panwar	Sums and Product of New Generalization of Fibonacci and Lucas Sequences
18	MATH/039		L. M. Angadi	Wavelet Based Full Approximation Scheme for the Numerical Solution of Non-linear Parabolic Partial Differential Equations
19	MATH/040		Nirjala T Sarode	Study of Fractional Differential Equation and Its Applications



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

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20	MATH/041	Neha Bhardwaj	Approximation properties of King type modified p,q Bernstein Schrurer operators
21	MATH/042	TAFAZ UL RAHMAN SHAH	ANALYTICAL SOLUTIONS OF SOME TYPICAL DEFINITE INTEGRALS USING HYPERGEOMETRIC APPROACH

Parallel Sessions P4

5:00pm-8:00pm(IST)

Day 1(26-Oct-2021)	Parallel Sessions Presentations followed by Invited Talks	Coordinator Names:	Session Chairperson(s):
		Dr. Sumit Kaur Bhatia, Amity University Noida, UP, India E-mail: skbhatia@amity.edu Mobile no. +91-9650535278	Dr. Anubhav kumar Professor, Computer Science Department, EITM, Mekelle University, Mekelle Ethopia E-mail: ds.dranubhakumar@kumar.gmail.com Mobile no. +91-8826369360
			Dr. Pratap Narayan Pathak Professor, Department of Mathematics. Axis College, Kanpur, India. E-mail: pnpnpathak71@gmail.com
			Phone no. +919956441064

Time (IST)		Time(IST)	Title of Talk	Speaker(s) Name
Parallel Session P4:	Speaker 1: (IT-10)	05:00pm-5:25 pm	Natural Language Processing	Dr. Goonjan Jain, Department of Applied Mathematics, Delhi Technological University, Delhi, India
05:00 pm - 08:00 pm	Speaker 2: (IT-11)	05:26pm-5:50 pm	Artificially Intelligent Approach to Speech Recognition in Multilingual and Multimode Environment	Dr. Kumud Tripathi, Department of Computer Science & Engineering, National Institute of Technology Sikkim, Sikkim, India
S.No.	Paper Code	Time	Presenter's Name	Title
	CSIT/001		Silky Sharma	Artificial Intelligence applications in higher education 4.0
	CSIT/002		Rajni Goel	Inferences for joint type-II censored k populations
	CSIT/003	(05:50 pm to 08:00 pm)	Abhishek Rajeshkumar Mehta	Advances in mathematical morphology applied to geoscience and remote sensing
1				
2				
3				
4	CSIT/004		P.Rizwan Ahmed	Verification of Data Integrity Using Distributed Machine Learning Algorithms



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

5	CSIT/005	P.Rizwan Ahmed	Data integrity verification techniques in the cloud computing environment using block chain technology
6	CSIT/006	Vinod Kumar	ECC based Secure Authenticated Framework for Cloud-TMIS Networking
7	CSIT/007	Varun Shukla	A New Authentication Method Using Random Image Decomposition: Replacements of Passwords
8	CSIT/008	Prabhat Kumar	How do optimizers influence the deep learning model's behavioral patterns?
9	CSIT/009	Presentation Duration	Akhilesh Kumar
10	CSIT/010	7min	Javed Azmi
11	CSIT/011	Jivyanshu Priya	EEG Signal-based emotion recognition using Machine Learning Algorithm
12	CSIT/012	Suman Sindhwani	An investigation into application of machine learning techniques in healthcare
13	CSIT/013	Hiten Sachan	Quantum Computation and Quantum Algorithms
14	CSIT/014	Bunty Virwani	Thermal Instability in a Couple Stress Nanofluid in presence of vertical magnetic field
15	CSIT/015	Shazmeen Shamsi	Predicting Academic Outcomes of Students Enrolled in an Open University using Machine Learning
16	CSIT/016	Vikas Mittal	Web-Page Phishing Detection using Machine Learning
17	CSIT/017	S. Karthik	Symptom-based Diagnosis of Covid-19, Cold, Flu and Allergy using Machine Learning
18	CSIT/018	Sumit Kumar	Artificial Intelligence for Flood Warning Systems
19	CSIT/019	Shailender Singh	POWER QUALITY IMPROVEMENT BY PV INTEGRATED UPQC USING MULTI-LEVEL INVERTER WITH AI NETWORK
20	CSIT/020	S. Nithyashree	IMPLEMENTATION OF SMART RESCUE ROBOT
21	CSIT/021	Ajay Kumar	Deep Learning for Biomedical Image Analysis
22	CSIT/022	Rajesh Yad	Deep Learning for Crop Disease Detection
			Implementation of smart rescue robot
			Reliability Measures Analysis of Computing Machines using Stochastic Process Subject to Hardware Failure under Server Arrival Facility
			CYCLE-2021 A TRENDING COMPREHENSIVE YEAR OF CLOUD AND EDGE COMPUTING

Parallel Sessions P5

5:00pm-8:00pm(IST)

Day 1(26-Oct-2021)

Parallel Sessions Presentations followed by Invited Talks

Coordinator Names:

Session Chairperson(s):

Dr. Mukesh Kumar Khandelwal,
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Dr. Mukesh Kumar Giluka,
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mkgiluka@mail.jnu.ac.in
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Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

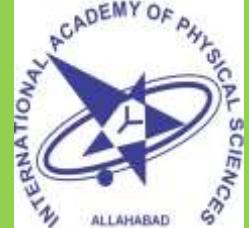
Mobile no. +91-9015580922

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Dr. Rajendra Kumar,
Department of Computer
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rajendra04@gmail.com

Mobile no. +91-7017763451

Time (IST)		Time(IST)	Title of Talk	Speaker(s) Name
05:00 pm - 08:00 pm	Parallel Session P5:	Speaker 1: (IT-12) 05:00pm-5:25 pm	Mathematical Modelling of Biological System	Dr. Sapna Ratan Shah, SCIS, JNU, New Delhi, India
		Speaker 2: (IT-13) 05:26pm-5:50 pm	
S.No.	Paper Code	Time	Presenter's Name	Title
1	PCBMS/001		ROHIT RASTOGI	Examining Effects of Electronic Gadgets Agnihotra: 21st Century New Paradigm shift for Healthcare 4.0 and Smart Cities Perspective
2	PCBMS/002		GAURAV VERMA	Pressure Analysis of Spherical Shell By using Generalized Strain Measures
3	PCBMS/003		Kamala Kumar Pradhan	THERMAL ANALYSIS OF NANOFUID PAST ON AN IMPERMEABLE STRETCHING SURFACE DUE TO THE REVISED MODEL OF NANOPARTICLE CONCENTRATION
4	PCBMS/004	(05:50 pm to 08:00 pm)	SHEELU SAGAR	SURYA NAMASKAR (SUN SALUTATION): A NOVEL APPROACH FOR QUALITY OF LIFE OF MANAGERS AND FOR PRODUCTIVE DYNAMICS FROM HEALTH CARE 4.0 PERSPECTIVE.
5	PCBMS/005		Drishti	ANALYSIS OF A BUTTER CHURNER AND CONTINUOUS BUTTER MAKING USED IN A MILK PLANT
6	PCBMS/006		M Nirmala	Ambient Air Quality Analysis based on Air Quality Index
7	PCBMS/007		Sumit Kaur Bhatia	SVEIR Model with Immigration: Dynamical Analysis
8	PCBMS/008	Presentation Duration 7min	Prerna Sharma	Statistical Approximation by differences of some variants of Lupus Operators
9	PCBMS/009		Muneshwar Hembram	LRS Bianchi I Model with a Variable Λ -term in Self-Creation Theory of Gravitation in General Relativity



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021) 26th-28th October 2021 (ONLINE)

10	PCBMS/010	YOGESH DADHICH	Magnetized Dissipative Soret Effect on Chemically Reactive Sisko Fluid over a Exponential Stretching Sheet
11	PCBMS/011	KANAK MODI	Truncated Geometric-Kumaraswamy Mixture Distribution: Properties and Application
12	PCBMS/012	Aditya Kumar Pati	Modelling of Heat and Mass Transfer in Stagnation Point Nanofluid Flow towards an Exponentially Stretching Sheet with Nanoparticle Electrification and Viscous Dissipation
13	PCBMS/013	Pankaj Kumar Agarwal	Mathematical Modelling and the Development of the Optimization Technique for the Stability Analysis of Earthen Slopes.
14	PCBMS/014	Priya Mathur	Analytical approach on the water-based nanofluid for the influence of dissipative heat energy
15	PCBMS/015	Rojalin Pattnaik	IMPACT OF NANOPARTICLE ELECTRIFICATION AND VISCOS DISSIPATION ON RADIATIVE NANOFLOW FLOW WITH HEAT TRANSFER OVER A NON-LINEAR PERMEABLE STRETCHING SHEET
16	PCBMS/016	Akhilesh Kumar Singh	A Dynamic and Differential Mathematical Model(DDMM) for Covid-19 in India : Dynamic and Sensitive Analysis, Behaviour Prediction, Issues and Optimal Solution
17	PCBMS/017	Mrs. Saraswati	Effect of Heat Transfer on Peristaltic Mechanism of a Non-Newtonian fluid in an Inclined Elastic Tube with Porous Walls
18	PCBMS/018	Vijay Sahu	Dielectric Study of Soil and Physiochemical Properties
19	PCBMS/019	Neeti Tandon	Analyzing Statistically the Happiness Through Alternative Therapies : Yagya and Mantra, A Boon From Indian Vedic Science
20			

Parallel Sessions P6

5:00pm-8:00pm(IST)

Day 1(26-Oct-2021)

Parallel Sessions Presentations followed by
Invited Talks

Coordinator Names:

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Session Chairperson(s):

Dr. Rambir Singh
Visiting Professor, College of
Post Harvest Technology
Sardar Vallabhbhai Patel
University of Agriculture and
Technology, Meerut
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Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

Dr. Pankaj Kumar
 Assistant Professor
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 Himachal Pradesh, India
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Time (IST)		Time(IST)	Title of Talk	Speaker(s) Name
05:00 pm - 08:00 pm	Parallel Session P6:	Speaker 1: (IT-14)	05:00pm-5:35 pm	Modern Optimization Techniques: Principles and Applications
		Speaker 2: (IT-15)	05:35pm-6:05 pm	To be announced
S.No.	Paper Code	Time	Presenter's Name	Title
1	PCB/001		Ankur Srivastava	Electrochemical dopamine biosensor based on Au doped La ₂ O ₃ nanocomposites
2	PCB/002	(05:50 pm to 08:00 pm)	Divya Mishra	TRANSCRIPTOME PROFILING TO IDENTIFY AND VALIDATE THERAPEUTIC BIOMARKERS FOR PROGNOSIS PREDICTION IN COLORECTAL CANCER
3	PCB/003		shraddha vishwakarma	Subtractive gene analysis of Bovine involved in biological pathway and gene network
4	PCB/004		Durgesh N Sinha	Dynamic Mathematical Modeling of Hepatitis C Virus infection
5	PCB/005		Ram Nayan Verma	Identification of key proteins in host pathogen interactions between homo sapiens and mycobacterium tuberculosis: A network theoretical approach
6	PCB/006		KAPIL SHEKHAR	EFFECTS OF CARTILAGE POROSITY AND VISCOSITY VARIATION OF THE SYNOVIAL FLUID UNDER JUMPING CONDITION
7	PCB/007	Presentation Duration 7min	Amendra Singh	Analysis of blood flow parameters by K-L model through a non-uniform inclined artery with multiple stenoses
8	PCB/008		Athira P	A survey on the methods of identifying and extracting the fetal brain images
9	PCB/009		Rohit Goel	Numerical Simulation of Oncolytic M1 Cancer Virotherapy Reaction-Diffusion Model by Collocation of B-Splines
10	PCB/010		Rajkamal Bharti	Identification of Potential Ftsz Inhibitors by Docking, ADME Prediction and Molecular



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Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

11	PCB/011	Anson Thomas	Dynamics Simulations for anti-Tubercular Therapeutics
12	PCB/012	Shobhit Maurya	A Potential drug for Parkinsonâ€™s: Computational study
13	PCB/013	Anshul Ujlayan	STUDY ON APPLICATIONS OF BEAM FANNING
14	PCB/014	H DHILSHATH RAIHANA	A Comprehensive Framework to Analyze the Medical Research Literature Using Ontology and Natural Language Processing
15	PCB/015	Akhilesh Kumar Singh	EXPLORING THE BINDING INTERACTION OF THIOL FUNCTIONALISED TERPYRIDINE WITH BOVINE SERUM ALBUMIN (BSA): MOLECULAR DOCKING STUDY
16	PCB/016	Karen Felicita C	Study of Infectious Diseases by A Novel Mathematical Model with Fractional Differential Equation and Non-linear Models in Applied Dynamic Science
17	PCB/017	Kamala Kumar Pradhan	IMPLEMENTATION OF GENETIC ALGORITHM IN TRAVELLING SALESMAN PROBLEM
18	PCB/018	Bhavna Singh	THERMAL ANALYSIS OF NANOFUID PAST ON AN IMPERMEABLE STRETCHING SURFACE DUE TO THE REVISED MODEL OF NANOPARTICLE CONCENTRATION
19	PCB/019	Richa Singh	A clinical comparative study of some herbs and castor oil in the management of rheumatoid arthritisA Clinical Comparative Study of Some Herbs and Castor oil in the Management of Rheumatoid arthritis In Silico Documentation of Medicinal Flora in Lacchiwala Range, Dehradun Forest Division, Uttarakhand (India)

Parallel Sessions P7

5:00pm-8:00pm(IST)

Day 1(26-Oct-2021)

Parallel Sessions Presentations followed by
Invited Talks

Coordinator Names:

Dr. Gajendra Pratap
Singh, SCIS, JNU,
New Delhi, India

Session Chairperson(s):

Dr. Gajendra Pratap Singh,
SCIS, JNU, New Delhi, India

E-mail:

gajendra@jnu.ac.in

Mobile no. +91-
9910136414

Time
(IST)

Time(IST)

Title of Talk

Speaker(s) Name

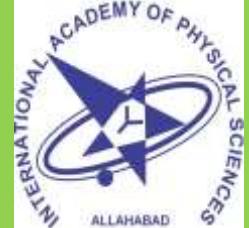
Parallel

Speaker 1:
(Plenary talk-
5)

05:00pm-5:35
pm

Dynamic Tasks Allocation in
Distributed System

Professor Avanish Kumar, Professor Department
of Mathematics, Bundelkhand University, Jhansi,
U.P., India

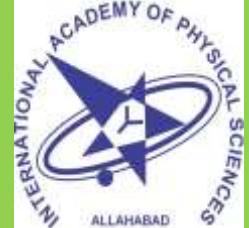


Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

Session P7:		Speaker 2: (IT-16)	05:35pm-6:05 pm	Mathematics for Cyber Security Application of Mathematics in Image Processing	Dr. Sangram Ray, Department of Computer Science and Engineering, NIT Sikkim, Sikkim, India Prof Varun Vajpai, Aksum University, Ethiopia
05:00 pm - 08:00 pm	S.No.	Paper Code	Time	Presenter's Name	Title
1		ORMA/001		J SHAHIDHA BEGUM	PHARMACEUTICAL SUPPLY CHAIN AND INVENTORY MANAGEMENT STRATEGIES: OPTIMIZATION FOR A PHARMACEUTICAL COMPANY AND A HOSPITAL.
2		ORMA/002	(05:50 pm to 08:00 pm)	Sowmiya Catherine A	A GREEN LOGISTICS SOLUTION FOR LAST MILE DELIVERIES CONSIDERING E- VANS AND E-CARS-BIKE USING FUZZY INVENTORY
3		ORMA/003		M.PUSHPALATHA	CATEGORIZING REQUIREMENTS OF INFORMATIONAL SHORT FOOD SUPPLY CHAIN PLATFORMS USING A FUZZY INVENTORY MODEL
4		ORMA/004		Dr. Sandeep Kumar	A Novel Two Phase Method for Determining Non-Dominant Solution of Intuitionistic Fuzzy Programming Problem
5		ORMA/005	Presentation Duration 7min	N. Senthilkumaran	Identification of Distance Optimization in Sequence Alignment using Computational Method
6		ORMA/006		RAGINI	AN OPTIMAL INVENTORY MODEL FOR ITEMS HAVING LINEAR DEMAND , VARIABLE RATE OF DETERIORATION AND BACKLOGGING PARTIALLY FULFILLED
7		ORMA/007		Sudeep Singh Sanga	Cost optimization for single unreliable server double orbit retrial queueing model
8		ORMA/008		Shamshad Husan	A STUDY OF DECISION MAKING PROBLEMS BASED ON BIPOLAR SOFT SET THEORY
9		ORMA/009		K.kalaiarasi	Optimization of refill stochastic lead time reduction fuzzy inventory order using EOQodel with machine learning using fuzzy
10		ORMA/010		K.kalaiarasi	OPTIMIZATION OF REFILL STOCHASTIC LEAD TIME REDUCTION FUZZY INVENTORY ORDER USING EOQ MODEL WITH MACHINE LEARNING USING PYTHON
11		ORMA/011		Dr Archana Sharma	OPTIMAL POLICY FOR DETERIORATING ITEMS UNDER INFLATION WITH STOCK- DEPENDENT DEMAND
12		ORMA/012		PARIKSHA GUPTA	CORDIAL LABELING OF KITE GRAPH AND SHELL GRAPH



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13	ORMA/013	Shruti Aggarwal	Improved lower bound of concurrence for arbitrary bipartite entangled states
14	ORMA/014	Naveen Kumar	The Role of Vedic Ganit in Complex Number System
15	ORMA/015	Ch Taliangbou	Modeling of starch metabolism in rice plant using Petri net
16	ORMA/016	Riddhi Jangid	Managing Business Processes using Petri Netmodeling
17	ORMA/017	TRANG JAIN	8 Different Ways to Solve a Single Problem
18	ORMA/018	Shivani Gupta	Petri Net Based Analysis for Early Stages Symptomatic Detection of Cardiac Disorder
19	ORMA/019	Richa Kaushik	Study the Pathogenesis of Mycobacterium in Tuberculosis using Petri Net
20	ORMA/020	Dr. LATHA DEVI PULI	TULGEITY OF RESTRICTED SUPER LINE GRAPH OF CYCLE
21	ORMA/021	Rashmi Yadav	Advancement by using Vedic ganit sutra for multiplication of numbers
22	ORMA/022	Keilash Chirom	Network medicine in Ovarian cancer: Topological properties to drug discovery
23	ORMA/023	Preeti Rana	Prion aggregation inhibition by polyphenolic phytoalexin polydatin

ANNOUNCEMENT

FEEDBACK

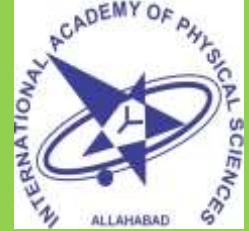
DAY-1 CLOSE

Remarks: Plenary Talks duration 30 min including 05 min for discussion.

Invited Talks and Keynote Speeches duration 25 min including

05 min discussion,

Paper Presentation duration 07+01 for presentation and Q&A.



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)
26th-28th October 2021 (ONLINE)

DAY 2, 27 October 2021, Wednesday (10:00am-6:00pm, IST)

Program Schedule (Day-2) 27 October 2021 Wednesday 10:00 am - 06:00 pm (IST)

Session-8 (Plenary Talk-6)

Chaired by: Professor Sangita Kansal, Department of Applied Mathematics, Delhi Technological University, New Delhi, India

Time (IST)	Topic	Name of Speaker
10:00 am - 10:35 am	Application of Fuzzy Soft and Interval Valued Fuzzy Soft Matrices in Dimension Reduction and Medical Diagnosis	Dr. D.S. Hooda, Emeritus Professor, G.J. University, Hisar, India

Session-9 (Plenary Talk-7)

Chaired by: Professor Sangita Kansal, Department of Applied Mathematics, Delhi Technological University, New Delhi, India

Time (IST)	Topic	Name of Speaker
10:36 am - 11:10 am	Enumeration formulae for self-orthogonal, self-dual and LCD codes over finite commutative chain rings	Professor Anuradha Sharma, Department of Mathematics, IIIT-Delhi, India

Session-10 (Invited Talk-17)

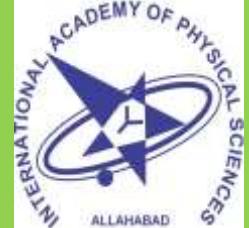
Chaired by: Prof. Mukti Acharya (Former Professor and Head, Department of Applied Mathematics), DTU, Delhi, Visiting Research Mentor, Department of Mathematics, CHRIST UNIVERSITY, Bengaluru, Karnataka, India

Time (IST)	Topic	Name of Speaker
11:11 am - 11:45 am	Portfolio Optimization Model Minimizing Mixed Value-at-Risk	Dr. Amita Sharma, Department of Mathematics, Netaji Subhas University of Technology, Delhi, India

Session-11 (Plenary Talk-8)

Chaired by: Prof. Mukti Acharya (Former Professor and Head, Department of Applied Mathematics), DTU, Delhi, Visiting Research Mentor, Department of Mathematics, CHRIST UNIVERSITY, Bengaluru, Karnataka, India

Time (IST)	Topic	Name of Speaker :
11:46 am - 12:20 pm	Recent Advances in Copositive Optimization and It's Application in Graph Theory	Prof S.K. Neogy, Indian Statistical Institute, New Delhi-110016, India



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

Session-12 (Invited Talk-18)

Chaired by: Professor A.K. Mohapatra, Department of Information Technology, IGDTUW, Delhi, India

Time (IST)	Topic	Name of Speaker :
12:21 pm - 12:55 pm	Mathematical Modeling of Arbitrary Shaped Harbor with Permeable and Impermeable Breakwaters using Hybrid Finite Element Method	Dr Prashant Kumar, Department of Applied Mathematics, National Institute of Technology, Delhi, India

Session-13 (Invited Talk-19)

Chaired by: Prof. R.K. Brojen Singh, SCIS, JNU, New Delhi, India

Dr. Gajendra Pratap Singh, SCIS, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker :
12:56 pm - 01:20 pm	Optimization Problems for Machine Learning	Prof Samarjit Kar, Department of Mathematics, National Institute of Technology, Durgapur, India

Break (01:20 pm---01:50 pm)

Session-14 (Plenary Talk-9)

Chaired by: Dr. Ruchir Gupta, Dean, School of Engineering, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker
01:50 pm – 02:20 pm	Numerical Methods for Solution of Two-Dimensional Fluid Flow Problems	Prof. Vusala Ambethkar, Department of Mathematics, University of Delhi, Delhi, India

Session-15 (Plenary Talk-10)

Chaired by: Dr. Ruchir Gupta, Dean, School of Engineering, JNU, New Delhi, India

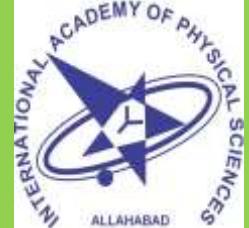
Dr. Kedar Singh, Dean, School of Engineering, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker:
02:21 pm - 02:55 pm	Modelling through Signed Petri Net	Professor Sangita Kansal, Department of Applied Mathematics, Delhi Technological University, Delhi, India

Session-16 (Invited Talk- 20)

Chaired by: Dr. Kedar Singh, Dean, School of Engineering, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker:
02:56 pm - 03:25 pm	Applications of Artificial Intelligence in Data Analytics	Professor Mansaf Alam, Department of Computer Science, Jamia Millia Islamia, New Delhi, India



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021) 26th-28th October 2021 (ONLINE)

Session-17 (Invited Talk- 21)

Chaired by: Prof. Vijay Gupta, Department of Mathematics, Netaji Subhas University of Technology, New Delhi, India

Time (IST)	Topic	Name of Speaker
03:26 pm - 03:55 pm	Fractional derivative operator on quarantine and isolation principle for COVID-19	Prof. Albert Shikongo, Mathematical Science Department , University of Namibia

Session-17 (Plenary Talk-11)

Chaired by: Prof. Vijay Gupta, Department of Mathematics, Netaji Subhas University of Technology, New Delhi, India

Time (IST)	Topic	Name of Speaker
03:55 pm - 04:30 pm	What is Impact of Vaccination on Severity of COVIS 19?	Prof. Nita H. Shah, (HOD, Mathematics, Gujarat University, Gujarat, India)

Session-19 (Invited Talk-22)

Chaired by: Professor A.K. Mohapatra, Department of Information Technology, IGDTUW, Delhi, India

Time (IST)	Topic	Name of Speaker:
04:31 pm - 05:00 pm	Computational Intelligence	Prof. Jagdish Chand Bansal, Department of Mathematics, South Asian University, New Delhi, India

Session-20 (Invited Talk-23)

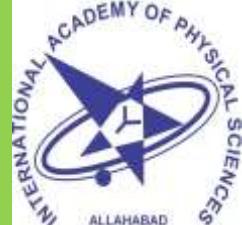
Chaired by: Professor A. Krishnamachari, SCIS, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker
05:01 pm - 05:30 pm	Distance Magic Index of Graphs	Prof Tarkeshwara Singh, Birla Institute of Technology, Goa Campus, Goa, India

Session-21 (Invited Talk-24)

Chaired by: Professor A. Krishnamachari, SCIS, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker
05:31 pm - 06:00 pm	Portfolio Efficiency Evaluation with respect to Benchmark Portfolios	Dr. Mukesh Kumar Mehlawat, Department of Operational Research, University of Delhi, Delhi, India



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021) 26th-28th October 2021 (ONLINE)

Session-36 (Invited Talk-25)

Chaired by: Professor Gajendra Kumar Vishwakarm, IIT Dhanbad, India

Time (IST)	Topic	Name of Speaker
06:01 pm - 06:30 pm	Optimizations in voluminous situations with emphasis on polynomial time solution to the maximum flow interdiction problem	Professor H S Dhami (Former Vice Chancellor, Uttarakhand Residential University; HNB Uttarakhand Medical University)

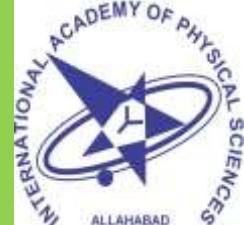
Session-6 (Invited Talk-2)

Chaired by: Prof. Vusala Ambethkar, Department of Mathematics, University of Delhi, Delhi, India

Time (IST)	Topic	Name of Speaker:
03:56 pm - 04:25 pm	Applying Fuzzy Sets in Natural Language Processing Applications	Prof Devendra K. Tayal, Indira Gandhi Delhi Technical University for Women, Kashmere Gate Campus, Govt. of NCT Delhi, Delhi, India

ANNOUNCEMENT

DAY-2 CLOSE



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021) 26th-28th October 2021 (ONLINE)

DAY 3, 28 October 2021, Thursday (10:00am-6:00pm, IST)

Program Schedule (RAMCO Day-3) 28-October-2021 Thursday 10:00 am - 06:00 pm (IST)

Session-22 (Plenary Talk-12)

Chaired by: Prof Dmitry Zaitsev, Odessa State Environmental University, 15 Lvivska Str., Odessa, 65016, Ukraine
(Dr.Sci., Professor, Senior Member of ACM and IEEE)

Time (IST)	Topic	Name of Speaker
10:00 am - 10:35 am	Dynamic Mathematical Modeling of Hepatitis C Virus Infection	Prof. Durgesh Nandini Sinha, Temple University (USA), Community College of Philadelphia

Session-23 (Plenary Talk-13)

Chaired by: Prof Dmitry Zaitsev, Odessa State Environmental University, 15 Lvivska Str., Odessa, 65016, Ukraine
(Dr.Sci., Professor, Senior Member of ACM and IEEE)

Time (IST)	Topic	Name of Speaker
10:36 am - 11:10 am	Convergence Concerning Linear Positive Operators	Prof. Vijay Gupta, Department of Mathematics, Netaji Subhas University of Technology, New Delhi, India

Session-24 (Invited Talk-25)

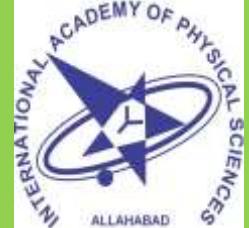
Chaired by: Professor A. Krishnamachari, SCIS, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker
11:11 am - 11:40 am	Solving Multi-Criteria Decision Making(MCDM) problems under uncertain environment	Professor Kajla Basu, Department of Mathematics, National Institute of Technology, Durgapur, India

Session-25 (Invited Talk-26)

Chaired by: Professor A. Krishnamachari, SCIS, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker
11:41 am - 12:10 pm	Modeling of Neuronal Activations – Creation of Dead Zones –A new paradigm	Prof V Sree Hari Rao, Foundation for Scientific Research and Technological Innovation, Hyderabad-500102, India



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Session-26 (Invited Talk-27)

Chaired by: Dr. Sapna Ratan Shah, SCIS, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker
12:11 pm - 12:40 pm	Fuzzy Logic Based System for the Diagnosis and Prognosis of Breast Cancer	Prof. Sanjeev Kumar Department of Mathematics, (Dr. Bhimrao Ambedkar University, Agra), India

Session-27 (Plenary Talk-14)

Chaired by: Dr. Deepti, Dept. of Mathematics, Shaviji College, University of Delhi, Delhi, India
Dr. Kiran Chaudhary, Dept. of Commerce, Shaviji College, University of Delhi, Delhi, India
Dr. Gajendra Pratap Singh, SCIS, JNU, New Delhi-110067

Time (IST)	Topic	Name of Speaker
12:41 pm - 01:10 pm	Can mathematics dig out hidden patterns in our body?	Prof. R.K. Brojen, SCIS, JNU, New Delhi, India

Break (01:10 pm---02:00 pm)

Session-28 (Plenary Talk-15)

Chaired by: Professor Deepa Sinha, Department of Mathematics, South Asian University, New Delhi, India

Time (IST)	Topic	Name of Speaker
02:01 pm - 02:35 pm	Improving Supply Chain Operations: An NLP Approach	Professor Pankaj Gupta, Department of Operational Research, University of Delhi, Delhi, India

Session-29 (Invited Talk-28)

Chaired by: Professor Deepa Sinha, Department of Mathematics, South Asian University, New Delhi, India

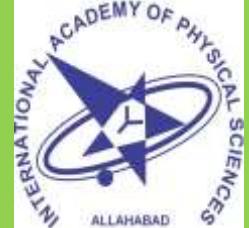
Time (IST)	Topic	Name of Speaker
02:36 pm - 03:05 pm	Hard vs Soft Clustering	Prof Tandra Pal, Department of Computer Science and Engineering, National Institute of Technology, Durgapur, India

Session-30 (Invited Talk-29)

Chaired by: Prof Manju Khari, SCSS, JNU, New Delhi, India

Prof. Pallavi Somvanshi, SCIS, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker
03:06 pm - 03:35 pm	Some Single and Multi-Objective Network Optimization Problems(Subject area: Network Analysis & Optimization)	Dr. Goutam Panigrahi, Department of Mathematics, NIT Durgapur, India



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Session-31 (Invited Talk-30)

Chaired by: Prof Manju Khari, SCSS, JNU, New Delhi, India

Prof. Pallavi Somvanshi, SCIS, JNU, New Delhi, India

Time (IST)	Topic	Name of Speaker
03:36 pm - 04:05 pm	Architecture Modelling of Cyber Security	Dr, Ratneshwer, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi, India

Session-32 (Invited Talk-31)

Chaired by: Prof. Sanjeev Kumar Department of Mathematics, (Dr. Bhimrao Ambedkar University, Agra), India

Time (IST)	Topic	Name of Speaker
04:06 pm - 04:35 pm	Spectral Analysis in q-triangulation Networks for Calculating Hitting Times	Dr. Anurag Singh, Department of Computer Science and Engineering, National Institute of Technology, Delhi, India

Session-33 (Invited Talk-32)

Chaired by: Prof. Sanjeev Kumar Department of Mathematics, (Dr. Bhimrao Ambedkar University, Agra), India

Time (IST)	Topic	Name of Speaker
04:36 pm - 05:05 pm	Modeling of Scheduling Algorithms in Real Time System	Professor S. Ramanarayana Reddy, Department of Computer Science and Engineering, IGDTUW, Delhi, India

Session-34 (Invited Talk-33)

Chaired by: Prof. Anita Pal, Department of Mathematics, NIT, Durgapur, India

Prof. Samarjit Kar, Department of Mathematics, NIT, Durgapur, India

Time (IST)	Topic	Name of Speaker
05:06 pm - 05:35 pm	Location-Allocation Problems in Health Care	Dr. Kaushal Kumar, Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, Delhi, India

Session-35 (Invited Talk-34)

Chaired by: Prof. Anita Pal, Department of Mathematics, NIT, Durgapur, India

Prof. Samarjit Kar, Department of Mathematics, NIT, Durgapur, India

Time (IST)	Topic	Name of Speaker
05:36 pm - 06:06 pm	Spectral analysis for Signed Social Networks	Prof. Deepa Sinha, Department of Mathematics, South Asian University, New Delhi, India



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

26th-28th October 2021 (ONLINE)

Session-35 (Invited Talk-34)

Chaired by: Prof. Vusala Ambethkar, Department of Mathematics, University of Delhi, Delhi, India

Time (IST)	Topic	Name of Speaker
06:06 pm - 06:36 pm	Cyber Threats Landscape	Professor A.K. Mohapatra, Department of Information Technology, IGDTUW, Delhi, India

(Valedictory and Feedback)

Time (IST)	Topic	Name of Speaker
06:06 pm - 06:30 pm	Report of the conference	To be announced
	Remark about the conference	To be announced
	Speech by Guest	To be announced
	Presidential remarks	To be announced
	Vote of Thanks	To be announced

Feedback form and Announcements

DAY-3 CLOSE

CONFERENCE TEAM (RAMCO-2021)

ADVISORY COMMITTEE

Prof. Albert Shikongo, (Faculty of Science Mathematics, University of Namibia)
 Prof. A. Krishnamachari, (SC&IS, JNU, India)
 Prof. Anuj Mubayi, (Department of Applied Mathematics Arizona State University, Tempe, AZ 85287-1904, USA)
 Prof. Anirban Chakraborti, (SC&IS, JNU, India)
 Prof. Avanish Kumar, (Vice-President, VPI and Chairman, CSTT, Min. of Edu., Gol)
 Prof. Bal Ram Singh, (President, Institute of Advanced Sciences, Dartmouth, MA, USA)
 Prof. Binod Kumar Kanaujia, Associate Dean (SC & IS, JNU, India)
 Prof. Bonyah Ebenezer, Dept. of IT Education University, University of Education-Winneba, Ghana
 Prof. D. S. Hooda, (Former Pro-Vice Chancellor, Kurukshetra University, India)
 Prof. Durgesh Nandini Sinha, (Temple University, USA, Community College of Philadelphia)
 Prof. H.C. Taneja, (HOD, Dept of Mathematics, DTU, Delhi, India)
 Prof. H S Dhami, (Former Vice Chancellor, Uttarakhand Residential University; Kumaun University, Nainital, India).
 Prof. J.B.Shukla, (IIT Kanpur, India)
 Prof. Mukti Acharya, (Research Mentor, Christ University, India)
 Prof. Nita H. Shah, (HOD, Mathematics, Gujarat University, Gujarat, India)
 Prof. Pankaj Gupta, (HoD, Dept. of OR, University of Delhi, Delhi, India)
 Prof. P.N. Pandey, (former Vice-Chancellor, Nehru Gram Bharati University, U.P., India)
 Prof. Pramod Kumar, (Registrar, JNU, New Delhi, India)
 Prof. Rana Pratap Singh, (Pro-Vice Chancellor, JNU, New Delhi, India)
 Prof. Ranjan Kumar Mohanty, (Department of Mathematics, SAU, New Delhi, India)
 Prof. Sangita Kansal, (HOD, Dept. of Mathematics, DTU, Delhi, India)
 Prof. Sanjay K. Srivastava, (BCET Gurdaspur, India)
 Prof. Satish Chand, (SCSS, JNU, India)
 Prof. Satwinder Singh Sadhal, (University of Southern California, Los Angeles, California, USA)
 Prof. Amit Bardhan, Faculty of Management Studies, University of Delhi, Delhi, India
 Prof. Pankaj Gupta, Department of Operational Research, University of Delhi, India
 Prof. C.K. Jaggi, Department of Operational Research, University of Delhi, India
 Prof. Nita H. Shah, Department of Mathematics, Gujarat University, Gujarat, India
 Prof. Vijay Gupta, Department of Mathematics, NSUT, Delhi, India
 Prof. Manju Agarwal, Dept. of Mathematics & Astronomy, University of Lucknow, Lucknow, UP, India
 Prof. Tandra Pal, Dept. of Computer Science & Engineering, NIT Durgapur, India
 Prof. Samarjit Kaur, Department of Mathematics, NIT Durgapur, India
 Prof. V. Ambethkar, Department of Mathematics, University of Delhi, India
 Prof. Anita Pal, Department of Mathematics, NIT Durgapur, India.
 Prof. Deepa Sinha, Department of Mathematics, SAU, New Delhi, India

ADVISORY COMMITTEE



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Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021)

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PROGRAM COMMITTEE

PROGRAMM COMMITTEE

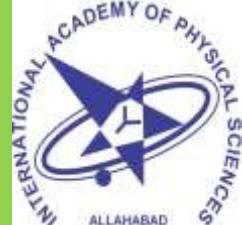
Prof. Amar Kumar Mohapatra, IGDTU, New Delhi, India
Prof. Anju Khandelwal, (SRMS college of Engineering, Bareilly, U.P., India)
Prof. Anirban Chakraborti, (SC&IS, JNU, India)
Dr. Alok Kumar Srivastava, (HoD Chemistry, MGPG College, Gorakhpur, UP, India)
Prof. Ashok Singh Shekhawat, (Dept. of Mathematics, JECRC, Jaipur, India)
Dr. Buddha Singh, (SCSS, JNU, India)
Dr. Gajendra Kumar Vishwakarma, (Dept. of Mathematics, IIT Dhanbad, India)
Prof. Goverdhan S. Khadekar, (RTM Nagpur University, Nagpur, India)
Dr. Jagdish C. Bansal, Dept. of Mathematics, South Asian University, New Delhi, India
Dr. Jessica Fernandes E Pareira, (Dept. of Mathematics, Goa University-India)
Prof. Kapil Kumar Sharma, (Dept. of Mathematics, SAU, New Delhi, India)
Dr. Manoranjan Kumar Singh, Magadh University, Bodh-Gaya, India
Prof. Mangey Ram, (Graphic Era University, Dehradun, India)
Dr Mukesh Kumar Khandelwal, (Deputy Director, R&D, JNU and SOE, JNU, New Delhi, India)
Dr. Navnit Jha, Dept. of Mathematics, South Asian University, New Delhi, India
Dr. Pooja Raj Verma, (SBSC, DU, Delhi, India)
Dr Praveen Kumar, (Ramjas College, DU, India)
Prof. Promila Kumar, (Principal, Gargi College (University of Delhi), Delhi, India)
Prof. Purnima Gupta, (SV College, DU, India)
Prof. Rajiv Aggarwal, (Principal, Deshbandhu College (University of Delhi), Delhi, India)
Dr. Sandeep Kumar Pandey, (SLL&CS, JNU, India)
Dr. Sanjay Kango, (Dept. of Mathematics, GC Hamirpur, H.P., India)
Dr. Sangram Ray, (National Institute of Sikkim, Sikkim, India)
Dr. Saroj Kumar Sahani, (Dept. of Mathematics, SAU, New Delhi, India)
Dr. S. N. Mishra, (BND College, Kanpur, India)
Dr. Sudhanshu Aggarwal, (INSA, New Delhi, India)
Prof. Tarkeshwar Singh, (Dept of Maths, BITS Goa, India)
Prof. Uma Srivastava, (Dept. of Maths and Statistics, DDU, Gorakhpur University, UP, India)
Dr. Randheer Singh, Department of Mathematics, University of Delhi, Delhi-110007, India
Dr. Neetu Gupta, Department of Mathematics, J.C. Bose University of Science and Technology, TMCA, Faridabad, India
Dr. Sanjay Kango, Department of Mathematics, Government College Barsar, Hamirpur, HP, India.
Dr. Sanjay Yadav, Department of Mathematics, North Cap University, Gurugao, Haryana, India
Prof. Varun Vajpai, Department of Mathematics, College of Natural and Computational Sciences, Aksum University, Ethiopia
Dr. Anubhav Kumar, Professor and Dean faculty of Engineering and Technology, Mandsaur University, MP, India
Dr. Anubhav Kumar, Professor, Computer Science Department, EITM, Mekelle University, Mekelle Ethiopia
Prof. Tirthankar Gayen, SCSS, JNU, New Delhi, India
Dr. Dhirendra Kumar, Dept. of Applied Mathematics, DTU, Delhi
Prof. Anita Pal, Department of Mathematics, NIT Durgapur, India
Dr. Goonjan Jain, Dept. of Applied Mathematics, DTU, Delhi, India
Dr. Kumud, NIT Sikkim, Sikkim, India
Dr. Amita Sharma, Dept. of Mathematics, NSUT, Delhi, India
Dr. Kaushal Kumar, Dept. of Operational Research, University of Delhi, India
Dr. Pratima Rai, Dept. of Mathematics, University of Delhi, India
Dr. Jagdish Bansal, Dept. of Mathematics, South Asian University, New Delhi, India
Dr. Anupam Gautam, Dept. of Mathematics, NSUT, Delhi, India
Mr. Mukesh Kumar, Department of Mathematics, Shivaji College, University of Delhi, Delhi, India

ORGANIZING COMMITTEE

ORGANIZING COMMITTEE

Prof. A. Krishnamachari, (SC&IS, JNU, India)
Dr. Agraj Gupta, (RA, SCIS, JNU, New Delhi, India)
Prof. Binod Kumar Kanaujia, Associate Dean (SC & IS, JNU, India)
Dr. Gajendra Pratap Singh, (SC&IS, JNU, New Delhi, India)
Dr. Kavita Arora, (AIRF, JNU, New Delhi, India)
Prof. Naidu Subbarao, (SC&IS, JNU, India)
Prof. Pallavi Somvanshi, (SC & IS, JNU, India)
Dr. Sandeep Kumar Pandey, (SLL&CS, JNU, India)
Dr. Sapna R. Shah, (SCIS, JNU, New Delhi, India)
Dr. Ashwani Kumar, SOE, JNU, New Delhi, India
Prof. Raj Kumar Brojen Singh, (SC&IS, JNU, New Delhi, India)
Dr. Ravi Kumar Arya, Department of Electronics and Communication Engineering, NIT Delhi, India
Dr. Mukesh Kumar Khandelwal, SOE, JNU, New Delhi, India
Prof. Pallavi Somvanshi, SCIS, JNU, New Delhi, India

RESEARCH SCHOLAR COMMITTEE



Program Details

Recent Advances in Mathematics and Computational Optimizations (RAMCO-2021) 26th-28th October 2021 (ONLINE)

RESEARCH SCHOLAR COMMITTEE

Miss. Aparajita Borah, (NIT Sikkim, Sikkim, India)
Ms. Chanchal Rani (Banasthali Vidyapith, India)
Ms. Gaurav Rani (Banasthali Vidyapith, India)
Ms. Madhuri Jha, (SCIS, JNU, New Delhi, India)
Mr. Ram Nayan Verma, (SCIS, JNU, New Delhi, India)
Ms. Sakshi Gupta, (Amity University, Gurugram, New Delhi, India)
Mr. Sujit Kumar Singh, (SCIS, JNU, New Delhi, India)
Miss. Riddhi Jangid, SCIS, JNU, New Delhi, India
Miss. Kirti, M.Sc., SPS, JNU, New Delhi, India
Miss. Preeti Kumari, M.Sc., SPS, JNU, New Delhi, India
Mr. Rohit Kumar, SCIS, JNU, New Delhi, India

PROGRAM CHAIR AND CONVENOR

PROGRAM CHAIR AND CONVENOR



Dr Gajendra Pratap Singh, (SC&IS, JNU, India)

Session-COORDINATORS

Prof. Raj Kumar Brojen Singh, (SC&IS, JNU, New Delhi, India)
Dr. Kavita Arora, (AIRF, JNU, New Delhi, India)
Dr. Mamtesh Singh, (Dept. of Zoology, Gargi College, DU, India)
Dr. Sapna R. Shah, (SCIS, JNU, New Delhi, India)
Prof. A. Krishnamachari, (SC&IS, JNU, India)
Prof. Pallavi Somvanshi, SCIS, JNU, New Delhi, India
Lt. Dr. Deepti, Department of Mathematics, Shivaji College, University of Delhi, India

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