



International Workshop on Nonlinear Analysis and its Applications (5th edition of IWNAA2023)
14th to 16th December, 2023

PROGRAMME SCHEDULE

14 December 2023, Thursday

INAUGURATION

i	Arrival of Dignitaries & Welcome	10:00 am - 10:05 am
ii	Lightening of Lamp	10:05 am - 10:10 am
iii	Welcome Address by Patron: Prof. M.S. Rawat, Director, Pt. L.M.S. Campus, Rishikesh	10:10 am - 10:15 am
iv	About the Workshop by Chairperson: Prof. Anita Tomar, Director, Faculty Development Centre , Pt. L.M.S. Campus, Rishikesh	10:15 am - 10:20 am
v	Address by Erdal Karapinar (Turkey)	10:20 am - 10:25 am
vi	Address by Chief Patron: Hon'ble Prof. N.K. Joshi Vice Chancellor, Sridev Suman Uttarakhand University, Tehri Garhwal	10:25 am - 10:30 am
vii	Vote of Thanks: Dr. Atal Bihari Tripathi, Deputy Director, Faculty Development Centre, Pt. L.M.S. Campus, Rishikesh	10:30 am - 10:35 am

Tea: 10:35 am - 10:45 am

Plenary Talk

Chairperson: Yasunori KIMURA (Japan)

1	Shigeo AKASHI (Japan)	10:45 am - 11:30 am
2	Marija CVETKOVIĆ (Serbia)	11:30 am - 12: 15 pm

Chairperson: Mohammad SAJID (Saudi Arabia)

1	Inci M. ERHAN (Türkiye)	12:15 pm - 01:00 pm
2	Gennaro INFANTE (Italy)	01:00 pm - 01:45 pm

Lunch Time: 01:45 pm - 02:45 pm

Invited Talk

Chairperson: Zakia HAMMOUCH (Morocco)

1	Ümit AKSOY (Türkiye)	02:45 pm - 03:15 pm
2	Zhanat ZHUNUSSOVA(Kazakhstan)	03:15 pm - 03:45 pm
3	Naeem SALEEM (Pakistan)	03:45 pm - 04:15 pm

Contributed Talk

Chairperson: Mahesh C Joshi, Yumnam Rohen

1	Benali Aharrouch , Sidi Mohamed Ben Abdellah University, Morocco, Max-product operators.	04:15 pm - 04:30 pm
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2	Khairul Habib Alam , Department of Mathematics, National Institute of Technology Manipur, Imphal, 795004, India, Extended mbv-metric space and solution of rocket's ascending motion.	04:30 pm - 04:45 pm
3	Feeroz Babu , Chandigarh University, India, A Viscosity Approach to Tackle a I-contraction Mapping for Hierarchical Variational Inequality Problem.,	04:45 pm - 05:00 pm
4	Mohammad Sajid , Department of Mechanical Engineering, College of Engineering, Qassim University, Saudi Arabia, Chaos and Fractals in Nonlinear Dynamical Systems.	05:00 pm - 05:15 pm
5	Ionescu Aichimoaie Cristiana , Department of Mathematics-Informatics, Faculty of Applied Sciences, University Politehnica of Bucharest, Romania, Generalized contractive inequalities.	05:15 pm - 05:30 pm

Chairperson: Santosh KUMAR, Naeem SALEEM

6	Tatiana Fomenko , M. V. Lomonosov Moscow State University, Moscow, Russia, On the zero existence problem for a multivalued functional connected with a family of search functionals.	05:30 pm - 05:45 pm
7	Swapnil Verma , Department of Mathematics, University of Delhi, India, Interpolative contractive results of fixed point over quasi-partial b- metric space.	05:45 pm - 06:00 pm
8	Ramesh Kumar Vats , Department of Mathematics & Scientific Computing, National Institute of Technology Hamirpur, Hamirpur (H.P), India, Results concerning to exact controllability of Sobolev-type Hilfer fractional differential system using measure of noncompactness.	06:00 pm - 06:15pm
9	Rajesh Sankaranarayanan , Indian Institute of Technology Tirupati, India, Proximal Normal Structure on Banach Spaces.	06:15 pm - 06:30 pm
10	Bheeman Radhakrishnan , Department of Mathematics, PSG College of Technology, Coimbatore- 641004, Tamil Nadu, India, Boundary Controllability of Sobolev-type Neutral Integrodifferential System With Timevarying Delays.	06:30 pm - 06:45 pm
11	Dhivya Pari , School of Advanced Sciences, Vellore Institute of Technology, Chennai - 600127, Tamilnadu, India, Z-Gornicki mapping and Proximal Z-Gornicki mapping results.	06:45 pm - 07:00 pm

15 December 2023, Friday

Plenary Talk

Chairperson: Shiego AKASHI (Italy)

1	Yasunori KIMURA (Japan)	10:30 am - 11:15 am
2	Erdal KARAPINAR (Turkiye)	11:15 am - 12:00 pm

Chairperson: Ariana PITEA (Romania)

1	Antonio Francisco ROLDÁN-LÓPEZ-DE-HIERRO (Spain)	12:00 pm - 12:45 pm
2	Paola RUBBIONI (Italy)	12:45 pm - 01:30 pm

Lunch Time: 01:30 pm - 02:30 pm

Invited Talk

Chairperson: Antonio Francisco ROLDÁN-LÓPEZ-DE-HIERRO (Spain)

1	Zakia HAMMOUCH (Morocco)	02:30 pm - 03:00 pm
2	Aljoša PEPPERKO (Slovenija)	03:00 pm - 03:30 pm

Contributed Talk

Chairperson: U.C. GAIROLA, Ariana PITEA

1	Bhumi Desai , Shri G. S. Institute of Technology and Science, Indore 452003, India, Fractals as Mandelbrot and Julia sets of Exponential Function through Krasnoselskij Iteration.	03:30 pm - 03:45 pm
2	Ramya S , Department of Mathematical And Computational Sciences, National Institute of Technology Karnataka (NITK) Surathkal, India, Extended convergence analysis of Noor-Waseem iterative method.	03:45 pm - 04:00 pm
3	Seyma bilazeroÄYlu , hopf bifurcation analysis of a class of reaction-diffusion system with twodiscerete delays.	04:00 pm - 04:15 pm
4	Meena Joshi , L. S. M. Campus Pithoragarh, Soban Singh Jeena University- 262502, Uttarakhand, India, Geometry and Continuity of Fixed Point in Partial Metric Space.	04:15 pm - 04:30 pm
5	Lakshmi Narayan Mishra , Department of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Vellore 632 014, Tamil Nadu, India, A Nystrom-based iterative technique for solving nonlinear Fredholm integral equations of type II.	04:30 pm - 04:45 pm
6	Vishnu Narayan Mishra , Indira Gandhi National Tribal University, Amarkantak, India, On Approximation Theory.	04:45 pm - 05:00 pm
7	Tiexin Guo , School of Mathematics and Statistics, Central South University, Changsha 410083, China, The noncompact Schauder fixed point theorem in random normed modules and its applications.	05:00 pm - 05:15 pm

Chairperson: R.C. DIMRI, Inci M. ERHAN

8	Mina Ghasemi , University of Applied Science and Technology, Shiraz, Iran, Some results to algebras.	05:15 pm - 05:30 pm
9	Aftab Hussain , Department of Mathematics, King Abdulaziz University, P.O. Box 80203 Jeddah 21589, Saudi Arabia, New Generalization of Interpolative Contractions by means of Fixed Point.	05:30 pm - 05:45 pm
10	Mohammed Karmouni , Cadi Ayyad University, Morocco, C0-semigroups and Local spectral theory.	05:45 pm - 06:00 pm
11	Emine Kihne , Department of Mathematics, Erzincan Binali Yildirim University, Faculty of Arts & Sciences, Erzincan, Turkey, Banach Contraction Principle and Beyond: Fixed Point Theorems in Rectangular Modular b-Metric Spaces.	06:00 pm - 06:15 pm
12	Manish Jain , Department of Mathematics, Ahir College, Rewari 123401, India, Solution to Elastic Beam Differential Equation via Coupled Fixed Point Results in FMS.	06:15 pm - 06:30 pm
13	Andreea Bejenaru , Politehnica University of Bucharest, Romania, On a new nonlinear convex structure.	06:30 pm - 06:45 pm
14	Monnica Stanciu , University Politehnica of Bucharest, Romania, On (ϕ, χ)-best proximity points for proximal contraction mappings.	06:45 pm - 07:00 pm

16 December 2023, Saturday

Plenary Talk

Chairperson: Erdal KARAPINAR (Turkey)

1	Palanichamy VEERAMANI (India)	10:30 am - 11:15 am
2	Calogero VETRO (Italy)	11:15 am - 12:00 pm

Chairperson: Palanichamy VEERAMANI (India)

1	Ariana PITEA (Romania)	12:00 pm - 12:45 pm
2	Andreei Tetenov (Russian Federation)	12:45 pm - 01:30 pm

Lunch Time: 01:30 pm - 02:30 pm

Invited Talk

Chairperson: Aljoša PEPERKO (Slovenija)

1	Rezan SEVİNİK (Türkiye)	02:30 pm - 03:00 pm
2	Snezhana Hristova	03:00 pm - 03:30 pm

Contributed Talk

Chairperson: Marija CVETKOVIĆ, Ramesh Kumar VATS

1	Bozena Piatek , Silesian University of Technology, Poland, Some remarks on L-type mappings.	03:30 pm - 04:00 pm
2	Sanda Micula , Babes - Bolyai University, Cluj-Napoca, Romania, An iterative numerical method for Fredholm integral equations of Hammerstein type with modified argument.	04:00 pm - 04:15 pm
3	Bouallala Mustapha , Cadi Ayyad University, Polydisciplinary Faculty, Modeling and Combinatorics Laboratory, Department of Mathematics and Computer Science, B.P. 4162 Safi, Morocco, Modeling and numerical simulation of the penalty method for unilateral contact problem.	04:15 pm - 04:30 pm
4	Rale Nikolic , Department of Natural Sciences and Mathematics, Military Academy, University of Defence, 11105 Belgrade, Serbia, Some of the results obtained in Menger's spaces.	04:30 pm - 04:45 pm
5	Nayyar Mehmood , Department of Mathematics and Statistics International Islamic University, Islamabad, Pakistan, Fuzzy Measure of Non-compactness with Applications in Fractional Anti-periodic Boundary Value Problems Involving Nonsingular Kernel.	04:45 pm - 05:00 pm

Chairperson: Rale NIKOLIC, Meena JOSHI

6	A. Padmanabha Reddy , Department of Studies in Mathematics, V. S. K. University, Ballari, Karnataka- 583015, India, Artificial Neural Networks for Solving Nonlinear Ordinary Differential Equations.	05:00 pm - 05:15 pm
7	Najah Redjel , Laboratory of Informatics and Mathematics, University of Souk-Ahras, P.O.Box 1553, Souk-Ahras 41000, Algeria, On some fixed point results and extension of Karlovitz theorems.	05:15 pm - 05:30 pm
8	Yumnam Rohen , Department of Mathematics, Manipur University, Canchipur, Imphal-795003, India, On fixed points and generalisations of metric space.	05:30 pm - 05:45 pm

9	Sudheer Petwal , A.P.B. Government Post Graduate College, Agastyamuni, Uttarakhand-246421, India, Hyers - Ulam - Rassias stability theorems via fixed point technique.	05:45 pm - 06:00 pm
10	Fares Yazid , Amar Telidji University of Laghouat, Algeria, Asymptotic behavior for a viscoelastic wave equation with past history.	06:00 pm - 06:15 pm

Valedictory Time: 06:15 pm - 06:45 pm

Link to join IWNAA2023: <https://meet.google.com/xia-xszp-ipc>

Thursday, 14-16 December, 2023

Time zone: Asia/Kolkata

Time zone in India (GMT+5:30)