




Faculty Performa

Title	Dr.	First Name	Nirmal	Last Name	Yadav	Photograph
Designation		Assistant Professor				
Address		Room No. 113, Cluster Innovation Centre, Rugby Sevens Building, University Stadium, North Campus, University of Delhi, Delhi-110007				
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Residence						
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Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Indian Institute of Technology Roorkee			2014	
M.Sc.		University of Rajasthan			2008	
Career Profile						
Organisation/Institute		Designation			Year	
Cluster Innovation Centre,		Assistant Professor			July 2015 onwards	
Cluster Innovation Centre,		Assistant Professor(Ad-hoc)			Aug 2014-July 2015	

Administrative Assignments

- Convenor, Grievance Committee, CIC, University of Delhi
- Member, Examination Committee, CIC, University of Delhi.
- Member Workload and Time Table Committee, CIC, University of Delhi.
- Member, Library Committee, CIC, DU.
- Member, Students Advisory Committee, CIC, DU.

Areas of Interest / Specialization

Computed Tomography, Inverse Problems, Error Analysis, Medical Imaging with Deep learning methods.

Subjects Taught

- Calculus (Undergraduate and Postgraduate)
- Discrete Mathematics and Graph Theory (Undergraduate and Postgraduate)
- Ordinary Differential Equation (Undergraduate and Postgraduate)
- Linear Algebra (Undergraduate and Postgraduate)
- Probability & Statistics (Undergraduate and Postgraduate)
- Linear Programming Problems (Undergraduate)
- Numerical Methods (Undergraduate)
- Partial Differential Equations (Undergraduate)

Research Guidance

NIL

Publications Profile

1. Nirmal Yadav, "Retinal blood vessel detection for diabetic retinopathy with Ridgelet transform and convolution neural network", International Journal of Wavelets, Multiresolution and Information Processing, **18**, pp 1-15, 2020.
2. Nirmal Yadav and Tanuja Srivastava, "Analysis of Error in Convolution Algorithm for Tomography in Discrete Spaces", International Journal of Applied and Computational Mathematics, **6**, pp 1-15, 2020.
3. Tanuja Srivastava and Nirmal Yadav*, "On Image Reconstruction Algorithms with Discrete Radon Transform" International Journal of Applied Mathematics and Statistics, Issue: 2013, **47**, Issue Number: 17.
4. Tanuja Srivastava and Nirmal Yadav, "Error Estimation of Discrete Convolution Backprojection for Discrete Radon Transform" International Journal of Information and Communication Technology, **7**, pp 455-468, 2015.
5. Nirmal Yadav and Tanuja Srivastava, "Local and Global Tomographic Image Reconstruction with Discrete Radon Transform" IEEE Digital Library, 978-1- 4673-4862-1/13.
6. Nirmal Yadav and Tanuja Srivastava, "A Modified Convolution Backprojection Algorithm for Tomographic Image Reconstruction with Contourlet Transform" International Journal of Computing Science and Mathematics, **7**, pp 156-165, 2016.

Conference Organization/ Presentations

- Nirmal Yadav, ‘**Error Analysis and Imaging by Convolution Algorithm for fan beam geometry with discrete Radon transform**’, presented in 3rd Internal Conference on Mathematical Modeling, Applied Analysis and Computation-2020 organized by Department of Mathematics, JECRC, Jaipur, India, 07-09 August 2020.
- Nirmal Yadav and Tanuja Srivastava, "**Error Estimation for Cone Beam Tomography**" International conference on Mathematical Sciences (Published by Elsevier) Chennai. Vol. / 2014.
- Nirmal Yadav and Tanuja Srivastava, “**Local and Global Tomographic Image Reconstruction with Discrete Radon Transform**” International Conference on Signal Processing, Image Processing and Pattern Recognition IEEE Digital Library, 978-1-4673-4862-1/13, ICSIPR’2013.
- Nirmal Yadav and Tanuja Srivastava, “**A New Implementation of Wavelet Transform for Reconstruction of Tomographic Images**” in International Conference on Advances in Modelling, Optimization and Computing organized by Department of Mathematics, I.I.T. Roorkee Dec 5-7’ 2011.

Research Projects (Major Grants/Research Collaboration)

Worked as a CO-PI in innovation project “Hiware Bazaar” Funded by university of Delhi.

Awards and Distinctions

Gate (Graduate Aptitude Test in Engineering)
NET (National Eligibility Test for Teaching): UGC-JRF
Junior Research Fellowship (UGC-JRF): Dec. 2009 - Dec. 2012 Senior Research Fellowship (UGC-SRF): Jan. 2012-June 2014.

Association With Professional Bodies

1. Universal Association of Computer and Electronics Engineers (UACEE)- Membership ID is SM1005069.
2. International Association of Engineers (IAENG) - Member No: 136111.
3. Member of Ramanujan Mathematical Society.

Other Activities

Attended Refresher Course at JNU from 14th October to 26th October 2019.