

Dr. Raj Shree
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Department of Information Technology
School of Science and Technology

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Education Qualification

	Organization	Year of award
Undergraduate	MJPRU, Bareilly	2001
Post-graduation	RGPV, Bhopal	2009
Ph.D.	BBAU, Lucknow	2015
Post-Doctoral Training		

Professional Experience (In Years)

Teaching Experience: More than 15 Years
Research Experience: More than 10 Years

Areas of Research (Maximum Five Bullet Points)

* Mobile Computing, Wireless Sensor Network, Mobile Ad-hoc Network, Image Processing

Research/Consultancy Grants

Title of Projects	Funding Agency	Duration (Specific Dates)	Total grant	Role (PI/CO-PI)
Design and Development of Speckle Reduction Framework for Land Monitoring in Agricultural SAR Images	CST-UP	10/04/2018-09/04/2020	Rs. 7,20,000/-	PI
Design and Analysis of Speech Recognition System and Its Application for Impaired Persons using Soft Computing Techniques	CST-UP	Ongoing	More than 10 lakhs	Co-PI

Publications

International

J Singh, A Singh, R Shree (2011) An assessment of frequently adopted unsecure patterns in mobile ad hoc network: Requirement and security management perspective International Journal of Computer Applications 24 (9).

Shree Raj, Kr Dwivedi Sanjay, Prakash Pandey Ravi (2011) Design Enhancements in ZRP for Detecting Multiple Black Hole Nodes in Mobile Ad Hoc Networks, International Journal of Computer Applications, 18(5), 6-10.

Pandey, Rajshree & Singh, Jayraj & Singh, Arunesh. (2011). An Assessment of Frequently Adopted Unsecure Patterns in Mobile Ad hoc Network: Requirement and Security Management Perspective. *International Journal of Computer Applications*. 24. 34-39. 10.5120/2989-3931.

N Singh, RA Khan, R Shree (2012) Applications of speaker recognition *Procedia engineering* 38.

N Singh, RA Khan, R Shree (2012) MFCC and prosodic feature extraction techniques: a comparative study *International Journal of Computer Applications* 54 (1).

Sahu, Kavita & Pandey, Rajshree & Kumar, Rajeev. (2014). Risk Management Perspective in SDLC. *International Journal of Computer Science and Software Engineering*. 4(3).

Pandey, Rajshree. (2014). Wormhole Attack in Wireless Sensor Network. *International Journal of Computer Networks and Communications Security*. 2. 22-26.

Sahu, Kavita & Pandey, Rajshree. (2015). Stability: Abstract Roadmap of Software Security. *American International Journal of Research in Science, Technology, Engineering & Mathematics*. 2. 183-186.

Raj Shree Vivek Shukla, Dhirendra Pandey (2015) Requirements Engineering: A Survey, *Communications on Applied Electronics*, 28-31.

P. Singh and R. Shree (2016) Analysis and effects of speckle noise in SAR images, 2nd International Conference on Advances in Computing, Communication, & Automation (ICACCA) (Fall), Bareilly, 2016, pp. 1-5, doi: 10.1109/ICACCAF.2016.7748978.

P Singh, R Shree. (2016) Statistical modelling of log transformed speckled image, *International Journal of Computer Science and Information Security* 14 (8), 426.

Prabhishek Singh, Raj Shree. (2016). A Comparative Study to Noise Models and Image Restoration Techniques. *International Journal of Computer Applications*. 149. 18-27. 10.5120/ijca2016911336.

Prabhishek Singh and Raj Shree (2017) Statistical Quality Analysis of Wavelet Based SAR Images in Despeckling Process Author : Volume 6 No.2 pp 1-18.

Prabhishek Singh, Raj Shree (2017) Quantitative dual nature analysis of mean square error in SAR image despeckling, *International Journal on Computer Science and Engineering (IJCSSE)* 9(11) 619-622

Prabhishek Singh, Raj Shree. (2018). A new SAR image despeckling using directional smoothing filter and method noise thresholding. *Engineering Science and Technology, an International Journal*. 21. 10.1016/j.jestch.2018.05.009.

Singh, Prabhishek & Pandey, Raj shree & Diwakar, Manoj. (2018). A new SAR image despeckling using correlation based fusion and method noise thresholding. *Journal of King Saud University - Computer and Information Sciences*. 10.1016/j.jksuci.2018.03.009.

Raj Shree Mohd Asim Sayeed (2019) Optimizing unmanned aerial vehicle assisted data collection in cluster based wireless sensor network, *ICIC Express Letters*, 13(5), 367-374

Prabhishek Singh, Raj Shree, (2020) A new homomorphic and method noise thresholding based despeckling of SAR image using anisotropic diffusion, *Journal of King Saud University - Computer and Information Sciences* 32(1): 137-148.

Author/s (Year), Title, Name of Journals, Volume (Issue), Page no.
National
Author/s (Year), Title, Name of Journals, Volume (Issue), Page no.
Book Chapters
(2009) Bluff-Probe Based Black Hole Node Detection and prevention, 978-1-4244-2927-1, IEEE.
(2010) SRIP: A Secure Hybrid Routing Information Protocol for WSN, 9781615207534, IGI Global
(2010) A Strategy for Detecting Single Black Hole Node in Mobile Ad Hoc network, 978-93-5033-146-0, Mapple Press Pvt. Ltd.
(2011) Cyber Terrorism: An Introduction, 9788179774526, Prakash Book Depo., Bareilly
Author/s (Year), Title, Name of Book, Publisher, Edition, ISBN No., Page no.
Authored Books
Raj Shree, Ravi Prakash Pandey (2014) Security Advancement in ZRP based Wireless Networks, 9783659500411, Lambert Academic Publishing, Germany.
Prabhishek Singh, Raj Shree, Manoj Diwakar (2018) SAR Image Despeckling: Theory and Techniques, 9786139873838, Lambert Academic Publishing, Germany.
Author/s (Year), Title, Name of Book, Publisher, Edition, ISBN No., Page no.
Edited Books
Mrs. Raj Shree, Mr P K Chaurasiya, Dr. Dharendra Pandey, Dr. Shalini, Mrs. Nilu Singh, (2015) Emerging Trends in Information Technology, 9789352130269, Shroff Publishers & Distributors Pvt. Ltd.
Author/s (Year), Title, Name of Book, Publisher, Edition, ISBN No., Page no.

Patents

	Inventors	Title and Award/Application no.
Awarded		
Published	1)Raj Shree 2)Puneet Bharti 3)Prabhishek Singh 4)Ravi Prakash Pandey 5)Vivek Shukla 6)R.K.Srivastava	MESH SORT- A SORTING ALGORITHM BASED ON MESH TOPOLOGY
	1)Manoj Diwakar 2)Raj Shree 3)Prabhishek Singh	A DESPECKLING FRAMEWORK FOR ULTRASOUND IMAGES USING HYBRID APPROACH
	1)Raj Shree 2)Shilpi Singh 3)Ravi Prakash Pandey 4)Vivek Shukla	SYSTEM AND METHOD FOR SIMILARITY BASEDPRIORITIZATION OF SOFTWARE TESTS

	1)Raj Shree 2)Prabhishek Singh 3)Ravi Prakash Pandey 4)Vivek Shukla 5)Manoj Diwakar	A SPECKLE REDUCTION FRAMEWORK FOR SPOTLIGHT SAR IMAGES USING FUSION
	1)Raj Shree 2)Prabhishek Singh 3)Ravi Prakash Pandey	A Despeckling Framework Of Agricultural Sar Images For Land Monitoring
	1)Raj Shree 2)Shilpi Singh 3)Ravi Prakash Pandey	System And Method For Test Suite Optimization In Regression Testing
Filed		

Research Supervision

	Completed	Ongoing
PG/M.Phil	22	15
Ph.D	3	4
Post-Doctoral	NIL	NIL

Honors, Recognition and Awards

- *NCC OTA Gwalior (DG's Plaque of Honour, 08/11/2014)
- *NCC OTA Gwalior(Commandant's Gold Medal, 08/11/2014)
- * NCC OTA Gwalior(2nd in order of merit, 09/07/2019)
- * BBAU, Lucknow (Gaurav Samman, 11/01/2020)

Membership of Professional Bodies

- *IEEE Member
- *CSI Member
- *UPASTA

Seminar/Conference/Symposia /Workshops Organised

Please provide details wherein the faculty member has participated as a organizing Secretary

Countries Visited

- *Australia

Invited Lectures/Talks/Chair/Co-Chair in Seminar/Conference/Symposia /Workshops

Paper Presented

Shikshan Evam Shodhkarya ke kshetra Mein Suchana Proudhyogiki Ki Awashyakata , Bhartiya Shastriya Sangeet Meain Durastha Shiksha Ka Aochitya Evam Sanbhavnayein, Prayojak: UGC New Delhi, SRMM (MJPRU) Bareilly, 2005.

Strategies for MANET'S: A Survey National Conference on Applications of Mathematics in Science, Technology & Management, NCAMSTM-2008, Department of Mathematics (MCA), SRMSCET, Bareilly, 2008.

Impact of Wormhole Attack in Wireless Sensor Network Green Technologies for Sustainable Development Devi Ahilya Vishwavidyalaya, Indore, 2009.

Bluff-Probe Based Black Hole Node Detection and Prevention IEEE International Advance Computing Conference, 2009.

Emerging Trends in Human Rights in context of Globalized World International Seminar on Future of Human Rights, Humanity & Culture in Emerging Globalized World, 2012

Attacks in Mobile Ad hoc Networks International Conference on Emerging Technologies in Electronics and Communication GNDU, Amritsar, 2013.

Detection Of Wormhole Attack in Mobile Ad hoc Network” Indian Science Congress, Jammu University, jammu, 2014.

Performance Comparison of various agile methods International Conference on Changing Paradigm of Management Practices for sustainable Development School for Management Studies, BBAU, LKO, 2016.

Ranganathan Philosophy in Digital India National Conference on Relevance of Ranganathan Philosophy in Digital India DLIS, BBAU, Lucknow, 2017.

“Role of ICT for Gender Awareness in Higher Education” National Symposium on Gender in Higher Education Committee for basic facilities of Women, BBAU, Lko, 2018.

Invited Lecture

“ICT initiatives for Women Health Issues” National Seminar on Inclusive Growth of Minority Women through ICT KMCUAF Univ, Lko, 2015.

“Recent Trends in Research Methodology ” in ICSSR sponsored workshop 24th oct to 2nd Nov, 2018 Deptt. Of Economics, 2018.

Relevance of Ranganathan's Philosophy in Digital India National Conference on Relevance of Ranganathan Philosophy in 21st Century, DLIS, BBAU, Lucknow, 2018.

Emerging trends in cyber Security Current Trends & Emerging Opportunities in Artificial Intelligence, Cyber Security & Social Media, CSTUP, Lucknow, 2019.

Emerging Technologies for Common Sustainable Future 8th International Library and Information Professionals Summit, 2019.

Additional Information (If Any)