



MANAV RACHNA UNIVERSITY, FARIDABAD

Sector 43, Aravalli Hills, Manav Rachna Campus Rd, Faridabad, Haryana 121004

Dr. R.GIRIJA

Designation: Associate Professor

Qualifications: Ph.D., M.Tech., B.E

Email: rgirija@mru.edu.in

Experience: 12 years 1 month

Google Scholar Profile:

<https://scholar.google.com/citations?user=kloZrOYAAAAJ&hl=en>

Research Gate Profile:

<https://www.researchgate.net/profile/R-Girija-2>

Scopus-ID

<https://www.scopus.com/authid/detail.uri?authorId=57194417618>



1. Received a stipend during M.Tech(top ranker) from Ministry of DIT, New Delhi.
2. B.E project had been summited in IPC printed circuits EXPO in Las Vegas, USA.

Research Interest: Double Random Phase Encoding, Image encryption and decryption, S-Box, Cryptography and Deep learning using Matlab

+ Awards/Achievements:

Acting as a **Reviewer** for HINDAWI-Wireless Communications and Mobile Computing

Lead Guest Editor of special issue "**Augment Reality and Virtual Reality-Based Game Development on Mobile Device Platforms**" in **TechScience Press**. Submission Deadline: 31 January 2022 (https://techscience.com/csse/special_detail/arvr_mdp) Science Citation Index (Web of Science): 2020 Impact Factor 1.486; Scopus Cite Score (Impact per Publication 2020): 1.4;

Lead Guest Editor of special issue "**Recent Advancement in Information Technology in Healthcare and Patient Management**" in **TechScience Press**. Submission Deadline: 31 January 2022 (https://techscience.com/csse/special_detail/rait-hpm) Science Citation Index (Web of Science): 2020 Impact Factor 1.486; Scopus Cite Score (Impact per Publication 2020): 1.4;

R.GIRIJA, "A Relative Investigation of Various Algorithms for Online Financial Fraud Detection Techniques", presented a paper in "International Conference on Recent Trends in Computing (ICRTC 2021)" organized by Department of Computer Engineering, Sanjivani College of Engineering, Kopergaon, Maharashtra, India during May 21 & 22, 2021 and also **GOT THE BEST PAPER AWARD**.

M.Tech Project paper Enhancing Authentication on RFID tags for Anti-counterfeiting, **GOT THE BEST PAPER AWARD**.

+ Professional Affiliation:

Optical Society of America(OSA)

International association of engineers-membership no.:135696

+ Ph.D. Guidance:

Registered	Submitted	Awarded
-	-	-

+ Administrative Responsibilities:

Program Coordinator of CSE2K 21C, Manav Rachna University

Editorial Board(Co-Editor)- Newsletter

Team Member-Websites coordinator of CST

Annual Report – CST department

Coordinator-LAB 7

Floor IN charge Coordinator(II floor)

+ Expert Talk Delivered/Session Chair Details:Delivered a Talk on the title "**Deep Reinforcement Learning**" in the 5 days FDP titled "**Pattern Recognition using Neural networks for Image Processing**"Delivered a Talk on the title "**Cognitive-IOT**" in the 5 days FDP titled "**Cognitive Machine Intelligence –The new world of Research Innovation**"Delivered a Talk on the title "**Cognitive-IOT**" for webinar conducted by **ARIVALAYAM RESEARCH GROUP**Acted as a Resource Person and delivered a talk on the title "**DRPE image encryption via Deep Learning**" in FDP titled "**DEEP learning for computer Vision**"Delivered a guest lecture on the title "**A practical approach for classifying the images based on deep learning**" in the workshop titled "Deep learning techniques for multimedia event detection: A practical approach"Delivered a guest lecture on the title "**Data Visualization Using Python**" in the workshop titled "Two weeks hands –on workshop on Python"**+ Journal Publications:**R Girija and Hukum Singh, "A cryptosystem based on deterministic phase masks and fractional Fourier transforms deploying singular value decomposition". Optical and Quantum Electronics, vol. 50, no. 5, 210, 1 -24, 2018. **(SCI, SCOPUS)(SPRINGERLINK Journal; IMPACT FACTOR:1.168)**R. Girija and Hukum Singh, "Triple-level cryptosystem using deterministic masks and modified Gerchberg-Saxton iterative algorithm in fractional Hartley domain by positioning singular value decomposition", Optik, vol. 187, 238-257, June, 2019. **(SCI, SCOPUS) (SCIENCEDIRECT Journal; IMPACT FACTOR: 1.914)**R Girija and Hukum Singh, "Enhancing Security of Double Random Phase Encoding Based on Random S-Box". 3D Research, vol. 9, no. 2, 15, pp. 1 -20, 2018.**(SCOPUS, E-SCI) (SPRINGERLINK Journal)**R Girija and Hukum Singh, "Symmetric cryptosystem based on chaos structured phase masks and equal modulus decomposition using fractional Fourier transform";3D Research, vol. 9, no. 3, 42, pp. 1-20, 2018. **(SCOPUS, E-SCI) (SPRINGERLINK Journal).**R Girija and Hukum Singh, "A new substitution-permutation network cipher using Walsh Hadamard Transform." International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN), (pp. 168-172), 2017, IEEE; DOI: **10.1109/IC3TSN.2017.8284470.**

R Girija and Hukum Singh, "Design of a Novel Pseudo Random Generator based on Walsh Hadamard Transform and Bi S-Boxes". International Conference on computational Intelligence and Data science (ICCIDS 2018), vol. 132, pp. 794- 804,2018. **(ELSEVIER, PROCEA COMPUTER SCIENCE, SCOPUS)**.

R Girija and Hukum Singh, "A Cryptosystem for DRPE based on Orthogonal Encoding and Chaotic masks in Linear Canonical Transform domain," Photonics 2018. **(Paper ID: 10733)**

Girija, R., & Singh, H. (2021). Security-enhanced optical nonlinear cryptosystem based on modified Gerchberg-Saxton iterative algorithm. *Optik*, 167568. **(SCI, SCOPUS) (SCIENCEDIRECT Journal; IMPACT FACTOR: 2.443)**

R. GIRIJA and HUKUM SINGH, "An asymmetric cryptosystem based on the random weighted singular value decomposition and fractional Hartley domain", Multimedia tools and applications, 1-19, June 2019. **(SCI- Expanded, SCOPUS) (SPRINGERLINK Journal)**

+ Conference Publications:

Girija Srikanth, "Electronic seal stamping based on Group Signature", International Journal of Computer Science issues, Vol. 8, Issue, 3, No. 1, May, 2011.

Girija Srikanth, "Diffie Hellman algorithm and anonymous micropayments authentication in mobile data network", International *Organization of Scientific Research*, vol. 15, issue 1, no. 4, Nov, 2013.

Girija Srikanth and Anu, "Fast Offline Signature verification using QR code on printed cheques-A review", International journal for Advance Research in Engineering and Technology, vol.2, Issue. 3, March 2014.

R.GIRIJA, "A Relative Investigation of Various Algorithms for Online Financial Fraud Detection Techniques", presented a paper in "International Conference on Recent Trends in Computing (ICRTC 2021)" organized by Department of Computer Engineering, Sanjivani College of Engineering, Kopergaon, Maharashtra, India during May 21 & 22, 2021 and also **GOT THE BEST PAPER AWARD.**

R.GIRIJA, "Assessment of open source tools and techniques for Network Security", presented a paper in "International Conference on Cyber Security and Digital Forensics 2021 (ICCSDF 2021)" organized by Department of Computer Engineering, The NorthCap University, Gurugram, India during April 3rd-4th, 2021.

R. GIRIJA, "AUTOMATIC POSTURE RECOGNITION AND ADJUSTMENT IN MEDICAL DIAGNOSIS TO PREVENT FROM COVID-19" in International e – conference on recent advances in computation, communication, internet of things and artificial intelligence (ICRACIA – 2021), in M.Kumarasamy college of Engineering, Karur, Tamilnadu, India during 31.3.2021 – 01.04.2021.

Girija Srikanth, "Enhancing Authentication on RFID tags for Anti- counterfeiting using CA", ICDATPM, Lingayas University, Faridabad.

R. GIRIJA, "Enhancing Authentication on RFID tags for Anticounterfeiting", Mepco schelk college of engineering and it was submitted at IPC printed circuits EXPO in Las Vegas, USA.

+ Chapters:

R. GIRIJA, "An authentic data centric application for medical store" 1st Edition of security Analytics A Data Centric Approach to Information Security. Roulledge Taylor and Francis Group.

R. GIRIJA, "Blockchain: A next power-driven technology for smart cities" 1st Edition of security Analytics A Data Centric Approach to Information Security. Rouledge Taylor and Francis Group.