



## MANAV RACHNA UNIVERSITY, FARIDABAD

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

### Dr. Hardeo Kumar Thakur

**Designation:** Associate Professor

**Qualifications:** Ph.D., Computer Engineering, University of Delhi

**Email :** hkthakur@mru.edu.in,

**Experience:** 12+ Years

[Google Scholar Profile:](#)



<https://scholar.google.com/citations?user=Uz8CDIQAAAAJ&hl=en>

**Research Interest:** Dynamic Graph Mining, Social Network, Machine Learning, Data Analytics

#### + Journal Publication Details:

S P Ajith Kumar, **H. K. Thakur**, S. Banyal, K.K. Bhardwaj and D.K. Sharma, “A Machine Learning Based Paradigm Routing in Opportunistic IoT Networks using Fuzzy Clustering”, in Journal of Intelligent & Fuzzy Systems [IOS Press] **SCI indexed, Impact factor 1.851**(In Press).

Govind Kumar Jha. Manish Gaur, Preetish Ranjan and **Hardeo Kumar Thakur**, “A survey on trustworthy model of recommender system”, in International Journal of System Assurance Engineering and Management [Springer Journal] <https://doi.org/10.1007/s13198-021-01085-z> **Scopus indexed.**

**Hardeo kumar Thakur**, Anand Gupta, Sreyashi Nag and Ritvik Shrivastava, “Multi-Class Instance-Incremental Framework for Classification in Fully Dynamic Graphs”, Int. J. of Computational Science and Engineering (IJCSE), Vol.21, No. 1, pp. 69-83, 2020 <https://doi.org/10.1504/IJCSE.2020.105214> [**Scopus, ESCI Indexed**]

Anand Gupta, **Hardeo Kumar Thakur**, Twinkle Gupta and SanyaYadav,” Regular Pattern Mining (with Jitter) on Weighted Directed Dynamic Graphs”, Journal of Engineering Science and Technology, Vol. 12, issue 2, pp 349- 364 2017. [**Scopus, ESCI Indexed**]

Anand Gupta, **Hardeo Kumar Thakur**, Anshul Garg and Disha Garg, “Analysis of Periodic Patterns in Weighted Directed Dynamic Network”, International Journal of Service Science, Management, Engineering, and Technology (IJSSMET), Vol. 7(1), pp 1-26, 2016.DOI: 10.4018/IJSSMET.2016010101 [**Scopus Indexed** ]

Rashmi, Udayan Ghose and **Hardeo Kumar Thakur**, “Revisiting Feature Ranking using information-centric and Evolutionary approaches: Survey”, International Journal of Sensors, Wireless Communications and Control [**Scopus Indexed**], <https://doi.org/10.2174/2210327911666210204142857>

**Hardeo Kumar Thakur**, Anand Gupta, Ayushi Bhardwaj and Devanshi Verma,” Rumor Detection on Twitter Using a Supervised Machine Learning Framework”, International Journal of Information Retrieval Research (IJIRR), Vol. (8), pp. 1-13, 2018. [**ESCI Indexed**]

Nikita Taneja and **Hardeo kumar Thakur**, “**Evaluation** of collaborative Filtering and Knowledge Transfer based Cross Domain Recommendation Model “, in Journal of Advanced Research in Dynamical and Control Systems, Vol. 11, Special Issue, pp. 1146-1153, 2019 [ **Scopus Indexed**]

Ruchi Gupta, **Hardeo kumar Thakur**, Chavi Baliyan, Mansi Mangla, “Future population and Literacy rate Projection in India”, Test Engineering and Management, Vol. 83, Issue May-June 2020, pp.10128-10138, ISSN: 0193-4120 [ **Scopus Indexed**]

Anand Gupta, **Hardeo Kumar Thakur** and Anshul Garg,” Periodic Pattern Mining in Weighted Dynamic Networks”, International Journal of Intelligent Systems Design and Computing, Vol.1 No.3/4, pp.319 - 338, 2017 .DOI: [10.1504/IJISDC.2017.090857](https://doi.org/10.1504/IJISDC.2017.090857)

Anand Gupta, **Hardeo Kumar Thakur**, Bhavuk jain and Sonali Garg,”Framework for Mining Regular Pattern in Dynamic Networks”, Internationall Journal of Knowledge Engineering and Data Mining, Vol. 3, No ¾, pp 299-314, 2015 [DBLP].

**Hardeo Kumar Thakur**, Anand Gupta, Bhavuk jain and Ambika,” Mining Maximal Quasi Regular Patterns in Weighted Dynamic Networks”, International Journal of Information Technology and Computer Science (IJITCS), Vol. 9, No. 4, pp. 48-62, 2017.

**+ Conference Publications:**

S P Ajith Kumar and **Hardeo Kumar Thakur** “Performance Study of Various Routing Protocols in Opportunistic IoT Networks “, in International Conference on Computational Intelligence in Analytics and Information Systems (CIAIS- 2021), 2-3, April 2021, Manav Rachna University, Faridabad.

Nikita Taneja, **Hardeo Kumar Thakur**,” Sentiment-Based Deep Auto Encoder Recommender System (DAERS)”, IEEE 5th International Conference on Computing Communication and Automation (ICCCA 2020), 30-31 Oct-2020, Greater NOIDA, India, pp. 248-253.

Sidhant Singh, **Hardeo Kumar Thakur**, “Survey of various AI ChatBots based on Technology Used”, IEEE 8<sup>th</sup> International conference on Reliability, Infocom Technologies and Optimization (ICIRTO 2020), June 04-05, 2020, Amity University, Noida, India, pp. 1074-1079.

Ram Chatterjee, **Hardeo Kumar Thakur**, Ridhi Sethi and Abhishek Pandey: Hoax and Faux of Information Credibility in Social Networks: Explored, Exemplified and Experimented presented by Mr. Ram Chatterjee & Dr. Hardeo Kumar Thakur at SoCTA 2019, held at National Institute of Technology, Patna, Bihar, India, has been awarded as the "**Best Paper of SoCTA-2019**"

Neelu Chaudhary, **Hardeo Kumar Thakur**, Parametric Classification of Dynamic Community Detection Techniques,ICMETE, 2019, SRM university, Ghaziabad, Lecture Notes in Networks and Systems,Vol.106, pp.333-340, Springer, Singapore.

Nikita Taneja, <b>Hardeo Kumar Thakur</b> , Handling Sparsity in Cross Domain Recommendation Systems: Review, ICMETE, 2019, SRM university, Ghaziabad, Lecture Notes in Networks and Systems, Vol.106, pp.163-174, Springer, Singapore.
Neelu Chaudhary and <b>Hardeo Kumar Thakur</b> , Survey of Algorithm Based on Dynamic Graph Mining, In Proc. of 5 <sup>th</sup> IEEE (PDGC 2018), JAYPEE Waghmaghat, H.P, pp. 393-399.
<b>Hardeo Kumar Thakur</b> , Anand Gupta, Rahul Khanna, Sakshi (2016), “ MADGM:Multi-Aspect Dynamic Graph Miner, In Proc. of 2 <sup>nd</sup> International conference of Computing and Communication Systems, NEHU ,Shillong, LNNS, Vol. 24, Springer, pp. 725-733, 2018.
Anand Gupta and <b>Hardeo Kumar Thakur</b> (2013), "A novel method to determine regular pattern in edge labelled dynamic graphs", In Proc. of 7 <sup>th</sup> International Conference on Data Mining and Warehousing, (ICDMW '13), Bangalore, pp. 39-47.
Anand Gupta, <b>Hardeo Kumar Thakur</b> and Payal Goel (2014), " Evolution of regular directed patterns in dynamic social networks", In Proc. of 3 <sup>rd</sup> IEEE International Conference on Advances in Computing Communications and Informatics( ICACCI'14) , GCET Greater Noida. pp. 1466-1471.
Anand Gupta, <b>Hardeo Kumar Thakur</b> and Pragya Kishore (2014), "Mining Regular Patterns in Weighted Directed Networks", In Proc. of 13 <sup>th</sup> IEEE International Conference of Information Technology (ICIT'14), Bhubaneswar. pp. 215-220.
Anand Gupta, <b>Hardeo Kumar Thakur</b> and Nitish Gundherva (2014), " Mining regular pattern in Edge Labeled Dynamic Graph". In Proc. of 9 <sup>th</sup> IEEE International Conference on Industrial and Information Systems (ICIIS'14), IITM Gwalior, India, pp.1-6.
Anand Gupta, <b>Hardeo Kumar Thakur</b> , Ritvik Shrivastava, Pulkit Kumar and Sreyashi Nag, "A Big Data Analysis Framework Using Apache Spark and Deep Learning" in the <b>5<sup>th</sup> ICDM Workshop on Data Science and Big Data Analytics (DSBDA-2017)</b> , pp. 9-16, USA.
<b>+ Research Supervised(PhD):</b>
Ms. Neelu Chaudhary on " <b>Mining and Analysis of Evolving Patterns in Dynamic Graph</b> " Year - 2016 Ongoing)
Ms. Nikita Taneja on " <b>Sentiment Enriched Cross Domain Recommender System</b> " year -2017(Ongoing)
Ms. Priyanka Gupta on " <b>Community Detection in Social Network</b> " Year - 2017(Ongoing)
Mr. S.P. Ajith Kumar on " <b>Design and analysis of Coherent Routing Protocols for message forwarding in Opportunistic IoT Networks</b> " year- 2019 (Ongoing)

Mr. Ram Chattterjee on “**Facts and Facets of Fakes in Cyberspace: Identification, Inspection and Improvements on Information Security** “ year -2019 (Ongoing)

**+ Book/Chapter Publications:**

**Hardeo Kumar Thakur** , Anand Gupta, Anshul Garg and Disha Garg, “Periodic Patterns in Dynamic Network - Mining and Parametric Analysis” in the book Multidisciplinary Approaches to Service-Oriented Engineering, pp. 244-264, 2018 .

**+ Administrative Responsibilities:**

Member of University research Committee of MRU since 2017

Member of Departmental Research Committee of Computer Science & Technology department of MRU since 2017

**Chairperson** of Departmental (CST) Course Content Review committee of MRU since 2017

IQAC Team member of MRU

**+ Professional Associations /Affiliation:**

Member of IANEG

**Lead Guest Editor**, International Journal of System Dynamics Applications (IJSDA), Special Issue On: Innovation Trends in Communication and Computing Technologies, Editors: **Dr. Hardeo Kumar Thakur** and Dr. Samayveer Singh [in press] [IGI Global ESCI Indexed]

**Lead Guest Editor**, International Journal of Information Retrieval Research (IJIRR), Special Issue On: Challenging Research Issues in Big Data Analytics and Applications, Editors: **Hardeo Kumar Thakur**, Manpreet Kaur and Anand Gupta, Vol.10, Issue 4, pp. 1-76 [IGI Global ESCI Indexed].

**Guest Editor**, International Journal of Information Retrieval Research (IJIRR), Special Issue On: Intelligent and Decision-Making Technologies for Next Generation Computing, Editors: Manpreet Kaur, Sapna Gambhir, **Hardeo Kumar Thakur**, and Mohit Gambhir [in Progress] [IGI Global ESCI INDEXED]

**Reviewer** of International Journal IJRR Journal (IGI Global), IJSSMET Journal (IGI Global), Multimedia Tools and Applications (Springer, SCI Indexed), International Journal of System Assurance Engineering and Management (Springer) and many more reputed journals

**+ Invited lecture/ Session Chair**

**Session Chair** at IEEE international conference on Computing communication and Automation (ICCCA2017), Galgotia University, India 5-6 May 2017.

**Session Chair** at international conference (SOCTA 2019 ) Springer, NIT Patna, 27-29 December, 2019.

**Session Chair** at IEEE international conference (ICACCP 2019), Manipal Institute of Technology, Sikkim India, 25-28 Feb 2019.

**Session Chair** at IEEE international conference (ICCCIS 2019) at Sharda University, 18-19 October 2019.

**Session Chair** at IEEE international conference (ICIEM-2021) at Amity University, United Kingdom (UK) on virtual mode, 28-30 April, 2021.

**+ Event Organized(Conference/Seminar/FDP/Workshops**

Conducted International Conference: Computational Intelligence in Analytic and Information Systems (CIAIS- 2021) as a Convener held at Manav Rachna University on 2-3 April 2021

**+ Patent**

Patent published on titled "**System and Method for Communal violence detection using social networks-based community detection**", date of publication 09.10.2020, Application number 202011030354

**+ Awards/Fellowships**

Best paper Award for the paper titled "**A novel method to determine regular pattern in edge labelled dynamic graphs**" in ICDMW 2013 in Bangalore, India

Best paper Award of the conference for the paper titled "**Hoax and Faux of Information Credibility in Social Networks: Explored, Exemplified and Experimented**" in SoCTA 2019 at National Institute of Technology Patna

Ministry of Human Resource Development Scholarship 2006-2008 for M.Tech

Teaching-cum-Research Fellowship 2012-2016, NSIT, DU Delhi

**MOOC courses Designed**

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