

Faculty Profile

Name : Dr. Shaily Malik

Designation : Assistant Professor

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

Phone : 011-25528117

Email : shaily.singh@msit.in

Area of Interest/Specialization: Semantic Similarity, Software Engineering
Database Management System, Data Structure, Cross Modal Information Retrieval.



Experience : 18+ years

Key Publications

1. Nishtha Jatana , Mansehej Singh , Charu Gupta, Geetika Dhand, **Shaily Malik**, Pankaj Dadheech , Nagender Aneja, Sandhya Aneja, “Differentially processed optimized collaborative rich text editor”. *Multimed Tools Appl* (2024). <https://doi.org/10.1007/s11042-024-19734-3>. (SCI E) [IF 3]
2. S. Singhal, Nishtha Jatana, Kavita Sheoran, Geetika Dhand, **Shaily Malik**, R. Gupta, B. Suri, M. Niranjnamurthy, S. N. Mohanty and N. R. Pradhan, "Multi-Objective Fault-Coverage Based Regression Test Selection and Prioritization Using Enhanced ACO_TCSP", *Mathematics*, vol. 11, no. 13, pp. 1-21, Jul 2023 (SCI E). [IF 2.4]
3. **Shaily Malik** and P. Bansal, “Multimodal Semantic Analysis with Regularized Semantic Autoencoder”, *Journal of Intelligent and Fussy Systems (JIFS)*, IOS Press, vol. 42, no. 2, pp. 909-917, 2022. DOI: 10.3233/JIFS-189759. (SCI E). [IF 2]
4. **S. Malik**, N. Jatana, D. Jatana, G. Sharma, V. Garg and A. Yadav,” Deep Non-negative Matrix Factorization Model for Clustering-Based Image Denoising”, *Proceedings on Engineering Sciences*.(Accepted and under publication). (Scopus)
5. R. Jain, Geetika Dhand, Kavita Sheoran, **Shaily Malik** and Nishtha Jatana, "Blockchain based Certificate Validation", *Fusion: Practice and Applications*, vol. 12, no. 2, pp. 42-53, Jun 2023. (Scopus)
6. S. Singhal , Nishtha Jatana , Geetika Dhand, **Shaily Malik** , Kavita Sheoran , “Empirical Evaluation of Tetrad Optimization Methods for Test Case Selection and Prioritization”, *Indian Journal of Science and Technology* 16(14): 1038-1044, 2023.
- 7.
8. Shaily Malik and Poonam Bansal, “Cross Modal Information retrieval using Multilayer BiLSTM Autoencoder”, *Advances and Applications in Mathematical Sciences*, Vol. 26, Issue 6, pp. 3315-3327, 2022. (ESCI Indexed Journal).

9. Shaily Malik and P. Bansal, “Matrix Factorization based Improved Classification of Gene Expression Data”, Recent Advances in Computer Science and Communications, vol. 13, issue 5, pp. 858-863 , 2020.(Scopus)
10. Shaily Malik and S. Mathur, “Advancements in V Model”, International Journal of Computer Applications (IJCA)”, Volume 1, Issue 12, pp 29-34, 2010.
11. Shaily Malik and V. Sinha, “Accessing Remote Application without Installation at Host End Through Cloud Computing”, International Journal of Computer Applications (IJCA)”, Volume 1, Issue 11, pp. 44-46, 2010.

Papers presented in Conferences

1. **Shaily Malik** ,Geetika Dhand ,Kavita Sheoran ,Nishtha Jatana,Pragya Mittal ,Niranjanamurthy M, AlgoViz: Algorithm Visualizer in Fourth International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-2022) ,during 26-27 December 2022.
2. **Shaily Malik** ,K.Sheoran and G. Dhand ,“A System for Providing Insights on a Tourist Spot based on Text Mining ”. 4th International Conference on Innovative Computing & Communication (ICICC) 2021.
3. **Shaily Malik** ,P. Bansal,P. Sharma, R. Jain and A. Vashishth, “Image Retrieval Using Multilayer Bi-LSTM” , 4th International Conference on Innovative Computing & Communication (ICICC) 2021.
4. **Shaily Malik** , G. Arora,A. Ahlawat and M. Payal, “MUSIC GENERATION USING DEEP LEARNING – Char RNN” , 4th International Conference on Innovative Computing & Communication (ICICC) 2021.
5. **Shaily Malik** and P. Bansal, “Semantic Space Autoencoder for Cross-Modal Data Retrieval” International Conference on Innovative Computing and Communication (ICICC), 21-23 February, pp. 509-516, 2020.
6. **Shaily Malik**, P. Raj, A. Bhandari, A. Singh and M. Puri, “Comparison of Matrix Factorization and Graph-Based Models for Summary Extraction”, in the INDIACom-2019 held at Bharati Vidyapeeth’s Institute of Computer Applications and Management (BVICAM) ,2019.
7. **Shaily Malik**, A. Goel and S. Maniktala, “A comparative study of various variants of SPARQL in semantic web” in International Conference on Computer Information Systems and Industrial Management Applications (CISIM), 2010, pp. 471-474.
8. **Shaily Malik**, “Role Based and Credentials Based Access Control in Semantic Web” National conference on computing for nation development- Bharati Vidyapeeth’s Institute of Computer Applications and Management, Delhi-INDIACOM 2010(25-26 February,2010).

Patent/Copyright

1. Simerneet Singh, Gurmeet Kaur, Dr. Nishtha Jatana, Dr.Kavita Sheoran, Dr. Geetika Dhand, **Dr. Shaily Malik**, Dr. Divya, Ms.Vaani Garg, Dr. Anju Dhillon, Ms. Priyanka Dhaka, Ms. Neha Mathur and Mr. Aabhaas Sikka, published a patent titled Compact Electronic Single Braille cell display device (patent filed on 6/02/2023, published 10/02/23, application no 202311007354A) **granted** on 10 Aug 2023, Grant No.: 444157, granted for India.
2. Dr. Gaurav Dubey,Mr. Harivans Pratap Singh, Dr. Charu Agarwal,Dr. Vikas Yadav,Dr. Kavita Sheoran,Dr. Prabhjot Kaur Sidhu, Dr. Geetika Dhand,Dr. Anupama Kaushik and **Ms. Shaily Malik** published a patent titled “IOT Based Smart Shoes for Child Health Monitoring”, Patent filed on 20/3/2021,Published on 26/03/2021, Patent No.202111011966A

3. Shaily Malik and Dr. Poonam Bansal published a patent titled "System and Method for Multimodal Semantic Auto Encoder", Patent filed on 11/12/2020, Published on 18/12/2020, Patent No. 202011053875A.

Book Chapter/Books published

- Nil

Memberships of Professional bodies:

- Nil

Other Contribution

- Convener of **Viksit Bharat Cell** MSIT.
- Incharge Registration Committee **ICAIA 2024** (The 2nd International Conference on Artificial Intelligence and Applications) organized by MSIT.
- Currently Member **Placement Coordination Committee** (From 2019 till date).
- Currently Member **Ecell/NISP, Incubation Cell** (From 2019 till date).
- Former Member of **Reserch Project committee**.
- Refreshment committee **Coordinator** in **ICAIA 2020**(The International Conference on Artificial Intelligence and Applications) organized by MSIT
- Refreshment committee **Coordinator** in **Admet 2021**(7th National Conference on Advancements in Metreology) organized by MSIT
- Former Member **Alumni Association Committee (2019 till date)**
- Former Member **Discipline Committee**.