

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 : 17 years

Key Publications

1. 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 [\[Impact factor 2.4\]](#)
2. **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. (SCIE). [\[Impact factor 2\]](#)
3. 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)
4. 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.
5. 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).
6. 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)
7. Shaily Malik and S. Mathur, "Advancements in V Model", *International Journal of Computer Applications (IJCA)*", Volume 1, Issue 12, pp 29-34, 2010.
8. 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

- 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 AssociationCommittee (2019 till date)**
- Former Member **Discipline Committee.**