Faculty Profile

Name   : Sonika Malik

Designation   : Asst. Prof.

Qualifications   : Ph.D. Pursuing (NIT Kurukshetra),

                                              M. Tech, B. Tech

Phone   : +91-9818820319

Email   : Sonika.malik@msit.in

Area of Interest/Specialization: Ontology Engineering, Semantic Web,

                                              Knowledge Representation

Experience   : 14 years

Key Publications

1. Sonika Malik, Sarika Jain, "F-ONTOCOM: A Fuzzified Cost Estimation Approach for Ontology Engineering", Journal of Web Engineering, **SCI-E Indexed, In Print.**
2. Sonika Malik, Sarika Jain, "A Bayesian Network Approach to Handle Uncertainty in Web Ontology", IJRIS, Inderscience, **Scopus Indexed: In Print**.
3. Sonika Malik, Sarika Jain, "Text Classification made Intelligent using Ontologies", International Journal of Information System Modeling and Design (IJISMD), IGI Global, **Under Revision**, **ESCI & Scopus Indexed**.
4. Malik, S., & Jain, S. (2021). Sup_Ont: An Upper Ontology. International Journal of Web-Based Learning and Teaching Technologies (IJWLTT), 16(3), 79-99, Scopus indexed. http://doi.org/10.4018/IJWLTT.20210501, **Scopus Indexed.**
5. Sonika Malik, Sarika Jain, "Handling Uncertainty in OWL using BN", Test Engineering and Management", pp. 12678-12689, May-June 2020, vol 83, ISSN: 0193-4120, **Scopus Indexed**.
6. Malik, S. (2019). Ontology Based Construction of Bayesian Network. International Journal of Research in Advent Technology, 7(12), 1-7.
7. Sonika Malik, Vaibhav Navani, Nagendra Singh Chauhan, Pahul Preet Singh," Study on Existing Ontological Technologies", vol5 (2016-17), pp. 18-23, ISSN: 2319-7897, SATYAM, MSIT.
8. Sonika Malik, Vaibhav Navani, Nagendra Singh Chauhan, Pahul Preet Singh," Design and Implementation for Ontology", vol5 (2016-17), pp. 18-23, ISSN: 2319-7897, SATYAM, MSIT.
9. Sonika Malik, Sanju Mishra, N.K. Jain, Sarika Jain "Devising a Super Ontology" Procedia Computer Science (Elsevier), vol 70, pp. 785-792, 2015, **Scopus Indexed**.
10. Mishra, S., Malik, S., Jain, N. K., & Jain, S. (2015). A realist framework for ontologies and the semantic Web. Procedia Computer Science, 70, 483-490**, Scopus Indexed**.

Papers presented in Conferences

1. Sonika Malik, Sarika Jain, "Semantic Ontology-Based Approach to Enhance Text Classification", CEUR Workshop Proceedings, vol 2786, pp. 85-98. International Semantic Intelligence Conference, Delhi, India. 25-27 Feb 2021, **Scopus Indexed**.

2. Sonika Malik, Sarika Jain "Knowledge Representation Formalisms: Description Logics", 1st International Conference on Science in Hindi, 22 August, 2017, pp: 117-118, ISSN 1549-523-X

3. Sonika Malik, Sarika Jain, "Ontology Based Context Aware Model", International Conference on Computational Intelligence in Data Science (ICCIDS 2017), 2-3 June 2017, pp: 1-6. IEEE, ISBN: 978- 1-5090-5595-1.

4. Sonika Malik, Nidhi Sharma, "Provisioning of Quality of Service in Manet's by Performance Analysis and Comparison of AODV and SAODV using free attack simulation environment, 3rd IEEE International Conference on Information Management and Engineering (ICIME 2011), 21-22 May, 2011.

Book Chapter/Books published

1. Sonika Malik, Sarika Jain (2020), "A Review on Methods to handle Uncertainty", In: Smys, S., Iliyasu, A.M., Bestak, R., Shi, F. (Eds.), New Trends in Computational Vision and Bio Inspired Computing, Springer Nature Switzerland AG, Hardcover ISBN: 978-3-030-41861-8, eBook ISBN: 978-3-030- 41862-5

Awards and Recognitions

1. Received an Appreciation letter for organizing an FDP on "Recent Advancements and challenges in IT" in 2021.

2. Received an Appreciation letter for organizing a Seminar on "Knowledge Representation with Ontology" in 2020.

3. Received an Appreciation letter for excellent services for Academic Growth in 2016.

4. Organize a Special Session "Exciting challenges for semantic Web Technologies and Applications (ECSWTA 2021)" in International Semantic Intelligence Conference (ISIC 2021).

Organized and Attended Events

1. Organized an FDP on "Recent Advancements and challenges in IT" from 8th March, 2021 to 12th March, 2021.

2. Organized a Seminar on "Knowledge Representation with Ontology" on 22nd October, 2020 by Dr Archana Patel.

3. Attended International Workshop on "Semantic Techniques and Technologies for Data and Knowledge Representation" from 22nd, 2021 to 26th February, 2021 organized by SemTech.

4. Attended FDP on "Semantic Intelligence: The Way Forward with Artificial Intelligence (Part II)" by ATAL from 21st July, 2021 to 25th July, 2021.

5. Attended FDP on "Semantic Intelligence: The Way Forward with Artificial Intelligence (Part I) Elementary" by ATAL from 1st July, 2021 to 7th July, 2021.
6. Attended FDP on "Use of ICT in Engineering Education (MSIT)" sponsored by MHRD from 15th March, 2021 to 20th March, 2021.
7. Attended FDP on "Artificial Intelligence and Its Applications" by NITTTR, Chandigarh 27th July, 2020 to 31st July 2020.
8. Attended FDP on "Semantic Intelligence: Applications and Perspectives, NIT Kurukshetra" from 26th Sep., 2020 to 30th Sep., 2020.
9. Attended FDP on "Latest Wireless and Computing Technologies" by NITTTR, Chandigarh from 14th April, 2020 18th April, 2020.
10. Attended FDP on "Neural Network and CNN" by NITTTR, from 9th April, 2020 to 14th April, 2020.
11. Attended FDP on "Machine Learning using Python" MSIT, from 2nd March, 2020 to 6th March, 2020.
12. Attended FDP on "Faculty Development: Planning and Management for Institutional Excellence" NITTTR, Chandigarh from 18th Nov., 2019 to 22nd Nov., 2019.
13. Attended FDP on "Contemporary Issues and Challenges in Management, Education and Information Technology" NITTTR, Chandigarh from 5th Feb, 2019 to 9th Feb, 2019.
14. Attended FDP on "Open Source Technologies" NITTTR, Chandigarh from 3rd Dec, 2018 to 7th Dec, 2018.
15. Attended FDP on "Data Science using R" NITTTR, Chandigarh from 26th Nov, 2018 to 30th Nov, 2018.
16. Attended FDP on "Wireless Networks through ICT NITTTR", Chandigarh from 22nd May, 2017 to 26th May, 2017
17. Attended FDP on "Research Methodology & Data Analytics" MSI from 16th Dec, 2016 to 23rd Dec, 2016
18. Attended FDP on "MATLAB Programming" NITTTR, Chandigarh from 1st Feb, 2016 to 5th Feb, 2016
19. Attended FDP on "7 QC Tools" MSIT from 10th Nov, 2014 to 10th Nov, 2014
20. Attended FDP on "Android Applications development" MSIT from 11th Sep, 2012 to 12th Sep, 2012.
21. Attended FDP on "Intelligent Tools for Various Engineering Applications" MSIT from 12th April, 2012 to 13th April, 2012
22. Attended FDP on "Human Values & Ethics" MSI from 4th Feb, 2012 to 4th Feb, 2012
23. Attended FDP on "Data Mining Workshop using SPSS Clementine" AIT, Delhi from 27th Feb, 2009 to 27th Feb, 2009.
24. Attended Seminar on "Advances in Speech Technology A way towards Intelligent Human Computer Interaction" MSIT from 27th Nov., 2017 to 28th Nov., 2017.
25. Attended Conference on "Paradigm Shift from Developing to Developed India through-Digitization" MSI from 28th July, 2017 to 29th July, 2017.
26. Attended workshop on "Implementation of Sensor Networks using NS-2" MSIT from 25th April, 2014 to 26th April, 2014.

27. Attended workshop on "Research Methods & Data Analysis Using SPSS" MSIT 12th April, 2012 to 13th April, 2012.
28. Attended Seminar on "MATLAB and Simulink for Engineering Education" from 18th August, 2011 to 18th August, 2011,
29. Attended Seminar on "Information Super-Highway- A Road to Excellence" DIAS, Rohini on 15th March, 2008.

Organized and Attended Events

1. Served as Project Coordinator.
2. Served as Summer Training In-charge.
3. Worked as a Team member of Unnat Bharat Abhiyaan.
4. Worked as a Team Member of AICTE (Ek Bharat Shresth Bharat).
5. Worked as Team Member in GGSIPU Schemes Committee.
6. Worked as a Core Team member in Avensis.
7. Worked as a Core Team Member in Genesis 2020.
8. Currently Working as an ISO In-charge.
9. Currently Working as a Placement Faculty Coordinator.
10. Currently Working as a Team Member in MSIT Alumni Committee

Certification:

I certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience.

Sonika Malik, Dept. of IT

Name of the Faculty