Department of Computer Science and Engineering

Faculty Profile

Name	: Mrs. H. Shalma	
Designation	: Assistant Professor (AIML)	
Qualification	: M.E. (Ph.D.,)	
Total Experience	: 3 years	
JNTUH ID	: 7801-240222-113706	
AICTE ID	:	
E-Mail	: shalma.hanif@gmail.com	

Linked In	: lhttp://www.linkedin.com/in/shalma-h-981535253
Google Scholar	:https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=shalma+H&btnG=
Scopus ID	: https://www.scopus.com/authid/detail.uri?authorId=56565525000

Publications:

1. Shalma, H. i Selvaraj, P. (2024). *Fuzzy-Logic based Effective Contour Representation of Occluded Objects*. Tehnički vjesnik, 31 (1), 200-207. https://doi.org/10.17559/TV-20230518000646 **SCI, IF:0.9, SNIP: 0.49,SJR: 0.224**

2. Shalma, H., & Selvaraj, P. (2023). *A review on 3D image reconstruction on specific and generic objects*. Materials Today: Proceedings Vol.80, Part 3,(2023), Pg: 2400-2405, https://doi.org/10.1016/j.matpr.2021.06.371 **(Scopus Indexed)**

3. H. Shalma and P. Selvaraj, "*Depth map prediction of occluded objects using structure tensor with gain regularization*," Intelligent Automation & Soft Computing, vol. 37, no.1, pp. 1145–1161, 2023.https://doi.org/10.32604/iasc.2023.036853.**IF: 3.4 SJR: 0.297, SNIP: 0.734(SCI Indexed)**

4 H. Shalma and P. Selvaraj," *Iterative Refinement of Depth Maps for Object Patch Recognition with Triangular Point View in Images*", IAES International Journal of Artificial Intelligence (IJ-AI), **Scopus** (Q2 Journal)

Presentations in International Conferences:

1. H. Shalma and P. Selvaraj, "*Deep-Learning Based Object Detection and Shape Recognition in Multiple Occluded Images*," 2022 International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI), Chennai, India, 2022, pp. 1-7, doi: 10.1109/ICDSAAI55433.2022.10028848. **IEEE(Scopus Indexed)**

2. H. Shalma, P. Selvaraj, "*Triangulation Point View(TPV) Method for Object recognition and 3D reconstruction from Multiple Images*", International Conference on Research in Electronics Engineering and Communication Techniques(ICREACT'21),SRM institute of Science and Technology, vadapalani, Chennai, 03-04-may-2021. ISBN: 978-93-90631-58-2

3. H. Shalma and R. Rajesh, "*Dynamic cluster based energy controlled routing in Wireless Sensor Networks*," International Conference on Information Communication and Embedded Systems (ICICES2014), Chennai, India, 2014, pp. 1-4, doi: 10.1109/ICICES.2014.7033856.

Book Chapter

❑ H. Shalma, P. Selvaraj, "**Deep Learning Based Robotic Defect Recognition Architecture with Occlusion Handling**" Intelligent Analytics for Social Well Being: Principles, Methods, Applications and Challenges, Springer Book Series 12-01-2024.

Patent

❑ H. Shalma, P. Selvaraj, "**Three layer architecture in feature extraction and selective patch for adaptive fuzzy Occlusion free 3D Model in reduced cost computation** "Patent FILED on October 2023.

Participation in Workshops / Conferences:
1 Participated "**Workshop on Writing an Effective Grant Proposal**", held on 17 December 2021, Organized by Dept. CINTEL, SRMIST.
2 Attended e-Workshop on "**Machine Learning and Data Science (e-WMLDS-2021)**"Organised by the Department of Mathematics & Data Science and Business Systems, SRMIST, from 11th and 12th November 2021.
3 Participated two days online workshop on "**Industrial Impact of Artificial Intelligence in Cloud Computing**" organized by CTECH SRMIST, on 23rd and 24th September 2021.

4. Attended Webinar on "**Impact of Artificial Intelligence on Industry, Society and Economics**" on 15th September, organized by Mandsaur University.

5. Participated five days International Workshop on "**Deep Learning in Health Care**" from 6th to 10th of September 2021, organized by Department of DSBS, SRMIST.

6. Attended the "**Three Days Online Workshop on Practical Foundation on Artificial Intelligence and Deep Learning**" from 6th to 8th September 2021,Organized by Dept. of CINTEL,SRMIST.

7. Attended e-Workshop on "**Excel-R -Virtual Training Program Artificial Intelligence**" on 28th march 2022 to 25th April 2022, organized by SRMIST in collaboration Excel-R.

8. Presented Seminar organized by CTECH on 14-05-2022 for the title "**Convolution Neural Network**" for the Research Scholars

9. Attended 3 days Workshop on "**Developing Applications using Natural Language Processing**" on 20th July 2022 to 22nd July 2022, organized by Department of Computing Technologies, Kattankulathur.

10. Attended 2 days workshop on "**Experimental Retreat to Managing self and others**" organized by Dept. of NWC in association with UHV cell &Thunai NGO 0n 3rd and 4th May 2023 SRMIST Kattankulathur.

11. Attended 1 day Workshop on "**Introduction to Data Visualization**" on 18th January 2023, organized by CMR University, Bangalore.

12. Attended 2 days Workshop on "**First Doctoral Committee to Viva Voce Defence**" from 11th and 12th January 2023, organized by Department of CTECH, SRMIST.

13. Attended one day online webinar on "**Webinar On Science Communication**" organized by Euraxess on 10th October 2023, SRMIST, Kattankulathur.

14. Participated in the workshop on "**Making Sense with Data**" Organized by the School of Computing in association with the Tata Consultancy Services held from 05th July 2021 to 06th July 2021.

15. Participated Nvidia Deep Learning Institute Certificate Of Competency conducted training on "**Fundamentals of Deep Learning**" on September 11 2021.

Faculty development programs attended:

1. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on **"Deep Learning For Computer Vision"** from 23/08/2021 to27/08/2021 at Panimalar Engineering College.

2. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on **"Data Science & Machine Learning with Python"** from 5-7-2021 to 9-7-2021 at Manipal University Jaipur.

3. Participated 5 days offline program "**Faculty Up Skilling-Computer Vision Basics-Python**", held from 29th June 2022 to 2nd July 2022, Organized by Rajalakshmi Engineering College, Thandalam.

4. Attended 6 days Faculty Development Program on "**Machine Learning For All** " from 16th may to 21st may 2022 organized by Department of DSBS, SRMIST.

5. Participated two weeks online FDP program "**Computer Vision and Natural Language Processing**" held from 08th August 2022 to 18th August 2022, Organized by Easwari Engineering College, Porur.
6. Attended 5 days Faculty Development Program on "**Machine Learning For Multi-Disciplinary Fields**" from 27th October to 31st October 2022 organized by Department of DSBS, SRMIST.
7. Participated one weeks online FDP program "**Advanced MATLAB Programming with Applications in Emerging Technologies**" held from 12th june 2023 to 17th June 2023, Organized by SRM Institute of Science and Technology, NCR campus Delhi.
8. Participated 6 days online FDP program "**Advanced MATLAB Programming with Applications in Emerging Technologies**" held from 12th June 2023 to 17th June 2023, Organized by SRM Institute of Science and Technology, Delhi, Ghaziabad.
9. Participated 5 days online FDP program "**AI Based Edge and Fog Computing: A Future Direction**" held from 30th October 2023 to 3rd Nov 2023, Organized by Sri Krishna College of engineering and Technology, Coimbatore.

Awards and Achievements:

1. Participated in Dr. Paarivendhar Research Colloquium (DPRC-2022) held from 24th to 26th march 2022 and received **Best Paper Award** title "**Multi-Object 3D Reconstruction for Detecting Collision Loss using Shape Selection" organized by SRMIST.**
2. Presented Paper Titled "Multi object shape determination of illuminated images in 3D Reconstruction" in DPRC meet and received **BEST PAPER AWARD** on March 2023.