

Dr. Syed Ali Fathima S J

Assistant Professor

Department of CSE

Kumaraguru College of Technology, Coimbatore

Email: syedalifathima.sj.cse@kct.ac.in

Phone: +91 9843022217

linkedin profile: www.linkedin.com/in/syed-ali-fathima-s-j-27926999

Research Interest

Artificial Intelligence, Data Analytics, Machine/Deep Learning, Augmented Reality, Virtual Reality, Software Development



Dr. Syed Ali Fathima S. J. is currently working as Assistant Professor in the Department of Computer Science and Engineering at Kumaraguru College of Technology, Coimbatore, Tamil Nadu. Her research interests are basically on Artificial Intelligence (AI), Virtual/Augmented Reality(VR/AR) and Data Analytics. She has worked in the industry for about 6 years and has 5 years of teaching experience. She has worked in project management and consultant team of Vienna based R&D industry named Research Industrial Systems Engineering, for Electronic passport and Border control projects of Libyan Government. She is currently working in the research area of applying VR/AR and AI for medical rehabilitation and simulated environment for education and training in various domains.

Research Publications (Past Five Years)

1. **Syed Ali Fathima S J**, Shankar S, Ahamed Thajudeen A, "A Survey on Assistive Technology using Natural User Interface(NUI) computing to support and augment therapeutic rehabilitation", International Journal On Advanced Research In Science, Engineering And Technology, Vol 1, (2016).
2. P. Manoharan, N. Sundararaj, U. Sankar and **S. J. Syed Ali Fathima**, "Review on Microsoft Kinect'S gesture technology based robotics," 2017 International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS), Coimbatore, 2017, pp. 1-6 (2017).
3. **Syed Ali Fathima S J**, Ajith Kumar M, Bhuvaneshneshwar, Arunsunai Bala Kumaresan P, "IoT Based Horn Detection System for Safety Four Wheel Driving", International Research Journal of Engineering and Technology, Volume: 05 Issue: 05, pp 2359 – 2361 (2018).
4. **Syed Ali Fathima S. J.** and Shankar S., "AR using NUI based physical therapy rehabilitation framework with mobile decision support system: A global solution for remote assistance", Journal of Global Information Management (JGIM), 26(4), pp. 36-51 (2018).
5. K.Saranya, **S. J. Syed Ali Fathima**, Mohd N Azri Ismail, "Enhancing Customer Engagement using Beacons", International Journal of Recent Technology and Engineering (IJRTE), 7, 4S, pp. 390 – 393 (2018).
6. **S. J. Syed Ali Fathima**, K. Saranya, and S. Rajini, "Secured Post Office Protocol for E-Commerce Application", J. Comput. Theor. Nanosci. 15, pp. 2390–2394 (2018).
7. **Syed Ali Fathima S J**, Jenice Aroma R, "Simulation of Fire Safety Training Environment using Immersive Virtual Reality ", International Journal of Recent Technology and Engineering (IJRTE), 7, 4S, pp. 347 - 350 (2018).
8. Sumanth S, **Syed Ali Fathima S J**, Sumathi V P, "Data analytics in football sport to identify gaps for the improvement of quality opportunities throughout world-wide teams", International Journal of Recent Technology and Engineering, 7, 4S2, pp. 364 – 368 (2018).
9. **S. J. Syed Ali Fathima**, S. Shankar, and A. Ahamed Thajudeen, "Activities of Daily Living Rehab Game Play System with Augmented Reality Based Gamification Therapy for Automation of Post Stroke Upper Limb Rehabilitation", J. Comput. Theor. Nanosci. 15, 1445–1451 (2018).
10. Jenice Aroma R, **Syed Ali Fathima S.J**, Raniya Harini R, "A Short Investigation on Effective Spectral Properties of Multispectral and Hyper Spectral Images for Object Detection" , International Journal of Recent Technology and Engineering, 7, 4S, pp. 279 – 283 (2018).
11. Saranya K, Jayanthi S, **Syed Ali Fathima S J**, "Image and brain signal processing-based drowsiness detecting and alarming system ", International Journal of Science and Technology, 5,2,190-201 (2019).
12. **Syed Ali Fathima S J**, M. Mirsath Begum, "An Exploratory Analysis of Mobile Banking Adoption and Consumer Behaviour in Coimbatore City ", International Journal of Innovative Technology and Exploring Engineering, 8, 12S, 372-378 (2019).
13. **Syed Ali Fathima S J**, Shankar S, Surendiran B, Saranya K, "Advent of augmented reality experience in retail and online shopping and its influencing significance in future", International Journal of Science and Technology, 5, 2, 35-47 (2019).
14. **Syed Ali Fathima S J**, M. Mirsath Begum, "An Exploratory Analysis of Mobile Banking Adoption and Consumer Behaviour in Coimbatore City ", International Journal of Innovative Technology and Exploring Engineering, 12S, 372-378 (2019).
15. M Suguna, **S J Syed Ali Fathima**, D Prakash, G Shobana, "IoT based engineering paradigm for real-time home automation", AIP Conference Proceedings 2270, 140014 (2020); <https://doi.org/10.1063/5.0019418>
16. **S J Syed Ali Fathima** & M. Suguna, Virtual reality engineering paradigm for the simulation and gamification of real-time applications, AIP Conference Proceedings 2270, 140015 (2020); <https://doi.org/10.1063/5.0019412>.

Book Chapters

17. **Syed Ali Fathima S. J.**, Shankar S., AR Using NUI Based Physical Therapy Rehabilitation Framework with Mobile Decision Support System, Chapter 8, Research Anthology on Rehabilitation Practices and Therapy, IGI Global Research, 2020. DOI: 10.4018/978-1-7998-3432-8.ch008