Dr. S. RUBIN BOSE., M.E., M.B.A., Ph.D.

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Dr. S. Rubin Bose is currently working as an Assistant Professor in the Department of Computer Science and Engineering at SRMIST's Ramapuram campus. He earned his Ph.D. degree in the Faculty of Information and Communication Engineering from ANNA UNIVERSITY in 2022. With 13 years of teaching and research experience, he has demonstrated a strong commitment to both fields. He holds certifications from various courses on Coursera and NPTEL, showcasing his dedication to continuous learning. His contributions to academia include publishing articles in reputable international journals with high Impact Factors, as well as active participation in conferences and symposiums.

AREA OF RESEARCH

Computer Vision, Deep Learning, Hand Gesture Recognition, Human Machine Interaction, Robotics and Embedded Systems.

PATENT

Published: 1 / Filed: 2

- ✓ Title of the invention : Method and System for Quitting Multiple Applications from one Device in oneClick, Application No.202241043779, Publication Date : 05 AUGUST 2022
- ✓ Title of the invention : Wireless Firing Weapon System with Safety Precautions for Military Purpose,Application No. 202341015804, Filed Date: 10 MARCH 2023
- ✓ Title of the invention : Method for Improving the performance of very large scale Integration layouts, ,Application No. 202341049442, Filed Date: 7 JULY 2023

JOURNAL PUBLICATIONS

SCIE Indexed: 4 / Total Published: 7 / Under Revision: 1

- ✓ *In-Situ Enhanced Anchor-free Deep CNN Framework for a High-Speed Human-Machine Interaction,* **Engineering Applications of Artificial Intelligence, 2023,** (Elsevier) **(Impact Factor: 8) [Q1] (Accepted for publication)**
- ✓ *In-situ Recognition of Hand Gesture via Enhanced Xception based Single-Stage Deep Convolutional Neural Network,* **Expert Systems With Applications** (Elsevier) (**Impact Factor : 8.5**), **2022.** https://doi.org/10.1016/j.eswa.2021.116427 **[Q1]**
- ✓ *In-Situ Identification and Recognition of Multi-Hand Gestures Using Optimized Deep Residual Network,* **Journal of Intelligent & Fuzzy Systems** vol. 41, no. 6, pp. 6983-6997 (**Impact Factor : 2.0**), **2021.** https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy- systems/ifs210875 **[Q2]**
- ✓ *Efficient Inception V2 based Deep Convolutional Neural Network for Real-Time Hand Action Recognition*, **IET Image Processing**, vol. 14, no: 4, pp. 688 - 696, (**Impact Factor: 2.373**), **2020**. https://ietresearch.onlinelibrary.wiley.com/doi/epdf/10.1049/iet-ipr.2019.0985 **[Q2]**

BOOK CHAPTER PUBLICATION — Published: 1 / Under Revision: 4

- ✓ *Precise recognition of vision based Multi-hand signs using Deep Single Stage Convolutional Neural Network*, Communications in Computer and Information Science Book Series, Vol. 1377, **Springer**, pp. 317-329, 2021. https://link.springer.com/chapter/10.1007/978-981-16-1092-9_27

CONFERENCE PUBLICATIONS — SCOPUS Indexed: 5

- ✓ *Vision Based Real-Time Active Protection System Using Deep Convolutional Neural Network,* **International Conference on Bio Signals, Images, and Instrumentation (ICBSII)**, Chennai, India, 2023, pp. 1-7. IEEExplore, *2023.* https://doi.org/10.1109/ICBSII58188.2023.10181062
- ✓ *A Reliable, Secure and Efficient Decentralized Conditional of KYC Verification System: A Blockchain Approach*, 2022 **International Conference on Edge Computing and Applications (ICECAA)**, Tamilnadu, India, 13-15 October 2022. https://ieeexplore.ieee.org/document/9936486
- ✓ *Positioning the 5-DOF Robotic ARM using single stage Deep CNN model*, International conference on Biosignals, Images and Instrumentation, SSN College of Engineering, 25-27 March 2021, https://ieeexplore.ieee.org/document/9445124
- ✓ *Precise Recognition of Vision based multi-hand signs using Deep Single Stage Convolutional Neural Network*, Conference on Computer Vision and Image Processing (CVIP-2020), **IIIT Allahabad**, 4-6th December 2020.
- ✓ *Hand gesture recognition using faster R-CNN Inception V2 Model*, 4th International Conference on Advances in Robotics (AIR 2019), Proceedings of the Advances in Robotics 2019, Article No: 19,pp. 1 - 6, **Indian Institute of Technology Madras**, 2nd to 6th July 2019. *ACM digital library*. https://doi.org/10.1145/3352593.3352613

PROFESSIONAL BODY MEMBERSHIP

- ✓ *Life Member of the Indian Society for Technical Education (ISTE) - Membership ID: LM 137764.*
- ✓ *Member of International Association of Engineers (IAENG)- Membership ID: 186602.*

REVIEWER

- ✓ *Reviewer in Elsevier journals – Engineering Applications in Artificial Intelligence, Expert Systems with Applications*
- ✓ *Reviewer in Inderscience journals - Scopus, ESCI, EI, SSCI, SCI, SCIE, UGC CARE Group-1 Journals.*
- ✓ *Reviewer in IGI Global Book Series- Scopus with Book Web of Science.*

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