Sunil B Wankhade

Ph.D. Computer Engineering
M.E. Computer Engineering
B.E. Computer Engineering

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Designation: Professor and Head, Information Technology Department.
Experience: Educational (Teaching) 28 Years
Industrial: 03 Years

Areas of Interest: Computer Network, Wireless and Mobile Computing, Machine Learning, Soft-Computing

Positions held in professional bodies/ Officiating bodies:

- Head of Information Technology Department, Rajiv Gandhi Institute of Technology, Andheri(w), Mumbai from June 30, 2016 to till date.
- Member board of studies Computer Engineering - University of Mumbai 2024-2027.
- Member board of studies Information Technology- University of Mumbai 2019-2023.
- Co-opted member board of studies Information Technology- SGB Amravati University during 2007–2012 and 2019-2024.
- Member board of studies Information Technology- Thakur college of Engineering & Technology: Autonomous College Affiliated to University of Mumbai.
- Head of Computer Engineering Department, Rajiv Gandhi Institute of Technology, Andheri(W), Mumbai from June 01, 2010 to June 30, 2016.
- Member of Departmental Advisory Board (DAB) of Department of Information Technology, St. John College of Engineering and Management, Palghar.
- Visiting faculty on Clock Hour Basis (CHB) at the School of Engineering and Applied Sciences, University of Mumbai, Kalyan Centre of Thane Sub-Campus.

During tenure as Head of Department

- Head of Department Information Technology, Rajiv Gandhi Institute of Technology (2016-till date): Institute NAAC, IQAC coordinator, received NAAC accreditation to the Institute in 2018.

- Head of Computer Engineering Department, Rajiv Gandhi Institute of Technology (2010-2016):Department is NBA Accredited for 01/07/2014 to 30/06/2016 in Tier II format.

Special Contribution/s in Academics:

- Ph.D. supervisor in computer engineering with Rajiv Gandhi Institute of Technology and VIT Mumbai: University of Mumbai.

- Expert member of Ph.D. admission selection Committee, University of Mumbai.

- Ph.D, Research Advisory Committee (RAC) member at Thakur college of Engineering & Technology and Thadomal Sahani college of Engineering , Mumbai.

- Delivered talk in 3 days Faculty Development Program on "E: Learning Managing online classes and creating E-learning contents" during 5th to 7th June 2020.

- Prepared Theory and Practical of subject Computer Network and Network Design in the syllabus revision process (REV-2019 'C' Scheme)

- Contributed in designing the complete syllabus of M.E. (Computer Network and Information Security) in 2014

Publications

Patents: (02)

- Title of the Invention: Using Deep Learning to increase efficiency in electronic health record (EHR) practices, Applicant details: Rugved Vivek Deolekar, Sunil Wankhade, Application No.202321014577 A, The Patent Office INDIA Journal No. 18/2023 dated 05/05/2023.

- Title of the Invention: A Hybrid Optimization driven Extreme Learning Machine (ELM) for Enhancing Classification, Applicant details: Nilesh Rathod and Sunil Wankhade. Mcts Rajiv Gandhi Institute of Technology, Andheri West, Mumbai-400053, Right number: 2021107084 with Australian Government under Innovative category. (Current Status: Grant).

Copyright

- Copyright title: Modified Optimization model for Improving Extreme Learning Machine for data classification, Applicant details: Nilesh Rathod and Sunil Wankhade. India. Diary number: 16883/2022-CO/L with Government of India copyright office, New Delhi. (Current Status: Granted)

- , Copyright title: IMAGE CLASSIFICATION USING ML, Applicant details: DR. SUNIL WANKHADE, INDIAN RICHA SAPRE, ARTI PANCHAL, VAIBHAV ZARAPKAR, RAJIV GANDHI INSTITUTE OF TECHNOLOGY, JUHU VERSOVA LINK ROAD, ANDHERI WEST-400053. India. Registration Number: L-134344/2023, Diary Number: 21419/2023-CO/ with Government of India copyright office, New Delhi, dated 06/10/2023. (Current Status: Granted)

Journal Publications

- Dwivedi, S. M. ., & Wankhade , S. B. . (2023). Enhancing Early Detection of Fake News on Social Media with a Dual-Branch Neural Network Model. International Journal of Intelligent Systems and Applications in Engineering, 12(7s), ISSN:2147-6799480–493, Elesvier.
- Sanjeev Dwivedi and Sunil Wankhade, "Comparing the Effectiveness of Different Machine Learning and Deep Learning Models for Fake News Detection," in Journal of Informatics Education and Research(ISSN: 1526-4726)Vo 3 Issue 2(2023),https://doi.org/10.52783/jier.v3i2.207 .(ABDC JOURNAL).

- Sanjeev Dwivedi and Sunil Wankhade, "Deep Learning Based Semantic Model for Multimodal Fake News Detection," in International Journal of Intelligent Engineering and Systems (ISSN: 2185-3118),2023. (SCOPUS INDEXED JOURNAL)

- Anushree Deshmukh, Sunil B. Wankhade (2023),"An Effective solution Towards Solving the Problem of Deepfake Detection", Scandinavian journal of information Systems, Ais E-library SCOPUS indexed, 2023.

- Anushree Deshmukh, Sunil B. Wankhade, "An Analysis on Improving Deepfake Detection: An Image Based Approach" at Journal of Data Acquisition and Processing by SCIENCE PRESS, BEIJING, CHINA.ISSN:1004-9037.https://sjcjycl.cn/ DOI:10.5281/zenodo.777719 (October 2023)
- Rugved V. Deolekar, Dr. Sunil B. Wankhade, "Designing a Decision Support System using Electronic Health Records for Symptoms Faking Problem at Emergency Clinics", International Conference on Latest Trends in Engineering and Management (ICLTEM–2023), March 2023, Published in UGC CARE Group II Journal–The Ciencia an Engenharia–Science and Engineering Journal, vol. 11, no. 1, 2023, pp. 2364–2373.

- Rugved V Deolekar, Sunil B. Wankhade, “Implementation of Decision Support System using Deep Learning and Electronic Health Records for Weeding Out Drug Seeking Behavior at Emergency Clinic”, Journal of Biomedical Engineering (Scopus Indexed), ISSN: 1001-5515, vol. 40, no. 2, 2023, pp. 64–68.
- Deshmukh, J., Wankhade, S., Khuspe, P., Kedar, A. (2023), Study on Provisions for Continuity with Online Education, Online Learning Systems: Methods and Applications with Large-Scale Data, 2023, pp. 121–134, SCOPUS indexed.
- Sanjeev Mewalal Dwivedi and Dr. Sunil Wankhade, “Fake News Detection by Integrating the Multi-Task Learning and Representation Learning Paradigms,” in IFERP,44th World Conference on Applied Science, Engrugineering & amp;Technology (44th WCASET-2023), 2023).
- Rugved V. Deolekar, Dr. Sunil B. Wankhade, “Analysing the Structure of Electronic Health Record (EHR) Using Deep Learning”, Scandinavian Journal of Information System (Scopus Indexed), vol. 35, no. 1, 2023, pp. 490–494.
- Sunil Wankhade, Saksham Gurbhele (2023), “Smart Door Lock System Using Blockchain Based on Solana Technology”, International Journal of Engineering Applied Sciences and Technology, 2023, Vol. 8, Issue 03, ISSN No. 2455-2143, Pages 85-88.
- Sunil B. Wankhade, Ritika Ghanekar, Debjani Das, Vijetha Kamath, Nikita More (2023), “Text Summarization using GPT-3”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 12, Issue 4, April 2023, pp. 3572-3578.|e-ISSN: 2319-8753, p-ISSN: 2347-6710|.
- Nilesh Rathod and Sunil Wankhade (2022) " Investigation of Optimized ELM using Invasive Weed-Optimization and Cuckoo-Search Optimization" Nonlinear Engineering, vol. 11, no. 1pp. (Status: Published SCI and Scopus indexing).
- Nilesh Rathod and Sunil Wankhade (2022) “Optimizing neural network based on Cuckoo Search and Invasive Weed Optimization using Extreme Learning Machine approach” Neuroscience Informatics ISSN2772-5286, https://www.sciencedirect.com/science Elsevier Journal (Status: Published Science Direct indexed).
- Nilesh Rathod and Sunil Wankhade (2022) “Quality Analysis of Extreme Learning Machine based on Cuckoo Search and Invasive Weed Optimization” EAI Endorsed Transaction on AI and Robotics (Status: Published and eSCI and Cross Reference Indexed).

- Rugved Deolekar, Sunil Wankhade (2022), "Decision Support System for Weeding Out Drug Seeking Behavior from Emergency Clinics", Lecture Notes in Networks and Systems, Inventive Computation and Information Technologies Proceedings of ICICIT 2022, Springer Book Series on Lecture Notes in Network and Systems.

- Wankhade, S., Kaul, A., Mohile, S., Kadam, R. (2022), Analysis of Stock Market and Its Forecasting, Lecture Notes on Data Engineering and Communications Technologies 2022, 86, pp. 147–159, SCOPUS indexed.

- Nilesh Rathod and Sunil Wankhade (2021), Review of Optimization in Improving Extreme Learning Machine, journal: EAI Endorsed Transactions on Industrial Networks and Intelligent Systems}, volume={8}, number={28}, publisher={EAI}, journal, doi=10.4108/eai.17-9-2021.170960, ISSN: 2410- 0218 (Scopus, DOAJ, DBLP, CrossRef, OCLC Discovery Services, EuroPub, Publons, Dimensions Publicly Available Content Database (ProQuest),Advanced Technologies & Aerospace Database (ProQuest), SciTech Premium Collection (ProQuest), Google Scholar) (Status: Published eSCI and Scopus indexed)

- Nilesh Rathod, et al. (2021) "Comparative Analysis of Different Classification Techniques." SN Computer Science 3, no.1 (2022): 1-6 Springer Journal (Status: Published SCILIT Indexed).

- Deshmukh, A., Wankhade, S. (2021). Deepfake Detection by Exposing AI-Generated Fake Face Video. In: Singh Mer, K.K., Semwal, V.B., Bijalwan, V., Crespo, R.G. (eds) Proceedings of Integrated Intelligence Enable Networks and Computing. Algorithms for Intelligent Systems. Springer,Singapore.https://doi.org/10.1007/978-981-33-6307-6_69
  Mr. Nilesh Rathod, Dr. Sunil Wankhade (2021), "Hybrid optimization-based Extreme Learning Machine for data classification" 62 nd NATIONAL CONVENTION OF INDIAN INSTITUTION OF INDUSTRIAL ENGINEERING ON (29 – 30 January 2021) Organized by Indian Institution of Industrial Engineering (IIIE) Mumbai. Awarded the Second position.

- Deshmukh, A., Wankhade, S.B. (2021), Deepfake Detection Approaches Using Deep Learning: A Systematic Review, Lecture Notes in Networks and Systems , 2021, 146, pp. 293–302, SCOPUS indexed.

- Rathod, N., & Wankhade, S. B. (2020). Improving Extreme Learning Machine Algorithm Through Optimization Technique. In Advanced Computing Technologies and Applications (pp. 157-163). Advanced Computing Technologies and Applications, Algorithms for Intelligent Systems, ISSN 2524-7565 ISSN 2524-7573 (electronic) Algorithms for Intelligent Systems ISBN 978-981-15-3241-2 ISBN 978-981-15-3242-9 (eBook) https://doi.org/10.1007/978-981-15-3242-9_16 157 Springer, Singapore. (Publisher: Springer Indexed: SCILIT)

- Rugved V. Deolekar, Dr. Sunil B. Wankhade, "A Study of Electronic Health Record to Unfold its Significance for Medical Reforms", International Conference on Image Processing and Capsule Networks (ICIPCN–2020), May 2020, Published in Spinger Book Advances in Intelligent System and Computing, vol. 1200, pp. 113–123.

- Rathod, N., & Wankhade, S. B. (2020). An Enhanced Extreme Learning Machine Model for Improving Accuracy," In Integrated Intelligence Enable Networks and Computing eBook ISBN 978-981-336-307-6 DOI https://doi.org/10.1007/978-981-33-6307-6 (pp. 796-804). Springer, Singapore. (Publisher: Springer Indexed: SCILIT).

- Mohammad H. R., Yajur S., Keith R., Sunil Wankahade (2020), "Emotionally Intelligent Artificial Intelligent Virtual Companion", International Journal for Research in Engineering Application & Management (IJREAM), ISSN: 2454-9150, Vol-06, Issue-01, April, 2020.(Link: http://ijream.org/papers/IJREAMV06I0161020.pdf).

Conferences

- Snehal Andhare, Sunil Wankhade (2023), "Rice Plant Disease Detection and Classification using Machine Learning Techniques with BPSO Feature Selection", in International conference on multi-disciplinary research studies and education, (ICMDRSE-2023), 19th & 20th May 2023.

- Singha, R.G., Lad, M., Shipurkar, G.M., ...Thombare, C., Wankhade, S.(2022), Vehicle Speed Detection Using Multi-Branch Networks From Temporal Image Pairs, Proceedings - 4th International Conference on Smart Systems and Inventive Technology, ICSSIT 2022, 2022, pp. 301–308, SCOPUS indexed.

- Mr. Nilesh Rathod, Sunil Wankhade (2022), "Classification of data using CSIWO based Extreme Learning Machine" Paper Selected at International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth at Mcts Rajiv Gandhi Institute of Technology, Versova, Andheri west, Mumbai-400053. Date: 22/04/22- 23/04/22 Publication Journal: Journal of Engineering, Project and Product management (Publisher: JEPP Indexed: Scopus).
- Dwivedi, S.M., Wankhade, S.B. (2021), Survey on fake news detection techniques, Advances in Intelligent Systems and Computing, 2021, 1200 AISC, pp. 342–348, SCOPUS indexed.
- Rajan, M.H., Rebello, K., Sood, Y., Wankhade, S.B. (2021), Graph-Based Transfer Learning for Conversational Agents, Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021, 2021, pp. 1335–1341, 9489179, SCOPUS indexed.
- Mr. Nilesh Rathod, Dr. Sunil Wankhade, (2021) "Improving Extreme Learning Machine through Optimization: A Review." In the 2021 7 th International Conference on Advanced Computing &

  Communication Systems (ICACCS), Organized by Sri Eshwar College of Engineering, Coimbatore, Tamilnadu, India. Conference Date: 19 – 20 March 2021, IEEE digital Library. (Publisher: IEEE Indexed: Scopus).
- Anushree Deshmukh and Sunil B.wankhade, (2020) "Deep Learning Technique for detecting Deepfake: A Review", Intenational conference on intelligent computing and networking, Springer, 2020, February, 2020.
- Rugved Deolekar, Sunil Wankhade (2020), A Study of Electronic Health Record to Unfold its Significance for Medical Reforms, International Conference on Image Processing and Capsule Networks (ICIPCN – 2020), Springer Book Series on Advances in Intelligence Systems and Computing, AISC 1200, pp. 113-123, May 6-7, 2020. SCOPUS indexed.

Membership of Professional Bodies:

Life Member of I.S.T.E. (LMISTE 23177)
Life Member of I.E.T.E. (AM 155665)