


FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. Sandra Johnson / T0494			
Designation	Professor and Head			
Department	Artificial Intelligence and Data Science			
Date of Joining the Institution	06.07.2007			
Qualifications	Ph.D.	M.E., M.C.A.	B.Sc. Applied Science – Computer Technology	
Total Experience	Overall : 25 years 1 month		in RMK : 18 years 1 month	
Papers Published in Journal	Overall : 36		After Joining RMK : 36	
List of Papers Published	<ol style="list-style-type: none"> 1. Sandra Johnson, et. al., Hot Topics Detection And Performance Optimization From Microblogs Using Hybrid Hadoop Framework, Journal of Theoretical and Applied Information Technology, 103(6), pp. 2388-2399, 2025. 2. Sandra Johnson, et. al., Ocularis-Ensuring Healthy Vision Through Intelligent Detection, 2nd International Conference on Research Methodologies in Knowledge Management Artificial Intelligence and Telecommunication Engineering, RMKMATE 2025. 3. Sandra Johnson, et. al., Harmonizing Emotions: A Fusion of Facial Emotion Recognition and Music Recommendation System, Proceedings of the 14th International Conference on Cloud Computing Data Science and Engineering Confluence, pp. 464-469, 2024. 4. Sandra Johnson, et. al., AI-Driven Pricing Precision: Enhancing Customer Satisfaction, Proceedings of the 5th International Conference on Data Intelligence and Cognitive Informatics, pp. 957-962, ICDICI 2024. 5. Sandra Johnson, et. al., ChatFinance: Tracking Wealth with a Conversational Bot, Proceedings 2024 International Conference on Expert Clouds and Applications, pp. 253-257, ICOECA 2024. 6. Sandra Johnson, et. al., A Real Time Vehicle Detection Based on Modified Convolutional Neural Networks in Different Climate, Proceedings of the International Conference on Intelligent and Innovative Technologies in Computing Electrical and Electronics, pp. 798-805, ICIITCEE 2023. 7. Sandra Johnson, et. al., AI and Blockchain Based Platform for Empowering Content Creators: Enabling NFT - Driven Content Sharing, Inspiration Generation, and Collaborative Interaction, Proceedings of the 4th International Conference on Smart Electronics and Communication, pp. 666-673, ICOSEC 2023. 8. Sandra Johnson, et. al., Comparative Analysis of CNN Models for Braille Character Classification, 3rd International Mobile Intelligent and Ubiquitous Computing Conference, pp. 221-227 MIUCC 2023. 9. Sandra Johnson, et. al., Smart Technology for People with Food Disorder, 7th IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions Csitts Proceedings. 2023. 10. Sandra Johnson, et. al., MEMA - Medical Emergency And Management Application, EEE International Conference on Research Methodologies in Knowledge Management Artificial Intelligence and 			

- Telecommunication Engineering, RMKMATE 2023.
11. **Sandra Johnson**, et. al., ResQFeed: Empowering Communities Through Optimized Food Rescue, IEEE International Conference on Research Methodologies in Knowledge Management Artificial Intelligence and Telecommunication Engineering RMKMATE 2023.
 12. **Sandra Johnson**, et. al., Fish Classification Using Convolutional Neural Network, 2023 IEEE International Conference on Research Methodologies in Knowledge Management Artificial Intelligence and Telecommunication Engineering RMKMATE 2023.
 13. **Sandra Johnson**, et. al., Smart Attendance System using DLIB Pre-trained Neural Network, 5th International Conference on Smart Systems and Inventive Technology ICSSIT 2023, IEEE Xplore, March 2023, 5th International Conference on Smart Systems and Inventive Technology (ICSSIT), DOI: 10.1109/ICSSIT55814.2023.10060958
 14. **Sandra Johnson**, B, et. al., "A Real time Multi-Scale Vehicle Detection based on Modified Convolutional Neural Networks in different climate", 2023 International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), IEEE Xplore, April 2023, 2023 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), DOI: 10.1109/IITCEE57236.2023.10090965
 15. **Sandra Johnson**, et. al., CNN based Cyclone intensity estimation using Satellite Imagery, Second International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC-2022), AIP Conference
 16. **S. Johnson**, L. et. al., "An Ensemble Deep Learning Approach for Diabetic Retinopathy Detection using Fundus Image," *2022 6th International Conference on Electronics, Communication and Aerospace Technology*, Coimbatore, India, 2022, pp. 829-836, doi: 10.1109/ICECA55336.2022.10009304.
[<https://ieeexplore.ieee.org/document/10009304>]
 17. **S. Johnson**, et. al., "Real-time Emotion Recognition System based on the Facial Expressions using Random Forest Algorithm," 2022 Sixth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Dharan, Nepal, 2022, pp. 802-809, doi: 10.1109/I-SMAC55078.2022.9987259.
[<https://ieeexplore.ieee.org/document/9987259>]
 18. **Johnson S.**, et. al., (2022), "Online Product Review Monitoring System Using Machine Learning", *Advances in Data Science and Management. Lecture Notes on Data Engineering and Communications Technologies*, vol 86. Pp:83-91, 2022. Springer, Singapore. https://doi.org/10.1007/978-981-16-5685-9_9
 19. **Sandra Johnson**, et. al., "Green Scheduler in Cloud Computing", *International Journal of Modern Agriculture*, Volume 10 Issue 3, pp: 136-141, Sept. 2021.
 20. **Sandra Johnson**, et. al., "Detecting Malicious Tweet Bots using Machine Learning Algorithms", *Turkish Online Journal of Qualitative Inquiry (TQJQI)*, Volume 12, Issue 04, pp: 2276- 2285, April, 2021.
 21. **Sandra Johnson**, et. al., "Convolutional Recurrent Neural Networks Based Speech Emotion Recognition", *Journal Computational Theoretical Nanoscience*, Volume 17, Number 8, 3786–3789 (August 2020)
 22. **Sandra Johnson**, et. al., "Disruptions in the Process of Engineering Education - A Curriculum Design Perspective", *Procedia Computer Science* 172 (2020), pp. 277-282. (10.1016/j.procs.2020.05.044) (16 June 2020)
 23. **Sandra Johnson**, et. al., "Spatio-Temporal Dengue Prediction System using Hybrid Algorithm", *TEST Engineering & Management*, Vol. 82, pp: 14856-14860, Jan-Feb. 2020.
 24. **Sandra Johnson**, et. al., "Application Engine using Blockchain Technology", *TEST Engineering & Management*, Vol: 82, pp: 8840-8844, Jan-Feb. 2020.

	<p>25. Sandra Johnson, et. al., "IoT based rear-end collision avoidance system in highways", International Journal of Advanced Computer Research, Vol 9(45), pp: 379-385, August 2019.</p> <p>26. Sandra Johnson, et.al., "Fish Sniffer", International Research Journal of Engineering and Technology (IRJET), Volume: 06 Issue: 03, pp:7706-7710 , Mar 2019.</p> <p>27. Sandra Johnson, et. al., "Household IOT Based Air Pollution Controlling and Monitoring System using Arduino", International Research Journal of Engineering and Technology (IRJET), Volume: 05 Issue: 09, pp:6922-6926 , Sep 2018.</p> <p>28. Sandra Johnson, et. al., "An Efficient Pursuit Plan over Scrambled Information on Portable Cloud", International Journal of Innovative Research in Computer and Communication Engineering, Vol. 6, Issue 2, pp: 811-820, February 2018.</p> <p>29. Sandra Johnson, et. al., "Drive Now, Text Later Nonintrusive Texting - While-Driving Detection using Smartphone", International Journal for Research in Applied Science & Engineering Technology, Volume 6 Issue IV, pp: 162-164, April 2018.</p> <p>30. Sandra Johnson, et. al., "SteganoPIN – A secured PIN for ATMs", International Journal of Trend in Research and Development (IJTRD), pp:9-11; ISSN: 2394-9333, Special Issue NCICE-17 , February 2017.</p> <p>31. Sandra Johnson, et. al., (2013), "A Survey of Methodologies for a Secure Data Storage in a Cloud Environment", Pensee Journal, Vol. 75, pp. 244-252.</p> <p>32. Sandra Johnson and S. Valli (2011), "Effective Feature Set Construction for Hot Method Prediction and Optimization", International Journal of Computational Science and Engineering, Inderscience, Vol. 6, No. 3, pp. 192–205. (IF = 0.100) DOI: 10.1504/IJCSE.2011.042023.</p> <p>33. Sandra Johnson and S. Valli (2011), "Feature Subset Selection for Hot Method Prediction using Genetic Algorithm wrapped with Support Vector Machines", Journal of Computer Science, Vol. 7, No. 5, pp. 707-714. (IF = 0.020) DOI: 10.3844/jcssp.2011.707.714</p> <p>34. Sandra Johnson, Valli Shnamugam (2010), "Category wise feature analysis in SVM-based Hot method Prediction", International Journal Artificial Intelligent systems and Machine learning, Vol 2, No 7, pp. 128-134. DOI: AIML072010007.</p> <p>35. Sandra Johnson and S Valli (2009), "Hot Method Prediction using Support Vector Machines", Ubiquitous Computing and Communication Journal, Vol. 3, pp. 75-81.</p> <p>36. Sandra Johnson and S. Valli (2010), "A Relearning Virtual Machine for Hot Method Prediction", International Journal of Soft Computing, Vol. 5. No. 6, pp. 206-210. DOI : 10.3923/ijscmp.2010.206.210.</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 18	After Joining RMK : 18
Ph.Ds / Projects Guided	Ph.Ds Guided : Nil	Student Projects Guided : 35
Books Published :	Count : 4	
	<p>1. Dr. C. Geetha Dr. Sandra Johnson Dr. T. Sethukarasi Ms. A. Jasmine Gilda, Design and Analysis of Algorithms, Alpha International Publication, 2022. (ISBN No.:978-93-95405-76-8)</p> <p>2. Dr. N R Gladiss Merlin, Dr. Sandra Johnson, Database Management Systems, Veda Publications, 2023. (ISBN</p>	

	No: 978-93-91930-38-7) 3. Dr. Sandra Johnson, Network and Security, SIPH Publications, 2024. 4. Dr. Sandra Johnson, Hand Book for AI with Data Science, SIPH Publications, 2025. (ISBN No: 978-93-6674-124-6)	
Patents	Published Count : 9	Granted Count : -
	<ol style="list-style-type: none"> 1. Published a patent on “Artificial Intelligence based approach for automation and display of true events and comments on social media platforms”, 202441074199 A dt 11/10/2024. 2. Published a patent on “Artificial Intelligence-based Techniques for Automation and Optimization of Public Transport System in Smart Cities”, 202441073488 A dt 04/10/2024. 3. Published a patent on “Health Monitoring And Guidance System For Person With Food Disorders”, 202441065827 A dt 13/09/2024. 4. Published a patent on “AI/ML Based Automated Cobweb Cleaning Device”, 202441042222 A dt 14/06/2024. 5. Published a patent on “Women Safety Wearable Device using Speech Emotion Recognition and IoT”, 202241019796 dt 13/5/2022 6. Published a patent on “Novel Private Framework Design For Content Based Image Retrieval in Cloud Computing”, 202141041832 A dt 01/10/2021 7. Published a patent on “Multiple Sensor Data Fusion Enabled AI Based Emotion Identification System” (202141030288 A dt. 16/07/2021) 8. Filed a patent on “Fish Freshness Detector Using IOT” 202041044208 dt. 10/10/2020 9. Published a patent on “Novel Method of M-IoT Based Blood Glucose Sensing Non-Invasive Technique” (201941047523 dt.21/11/2019) 	
Professional Memberships	Count : 6	
	<ol style="list-style-type: none"> 1. Life Member of ISSE (Indian Society of Systems for Science & Engineering)– LM 06572 2. Life Member of IEI (LM 62958) 3. Life Member of ISTE since 2009 LM06572 4. Life Member of IACSIT since 2015 (80350319) 5. Member of Internet Society since 15th April 2016 (130922) 6. CSI Member since July 2017 up to June 2027 (F8002240) 7. Annual Member of Analytics Society of India (ASI) from 07-Sep-2022 to 06-Sep-2023 (IM2A0378) 	

Consultancy Projects Completed	Count : 2
Awards Received	Count : 8
	<ol style="list-style-type: none"> 1. Wipro Certified Faculty - successfully passed the TalentNext certification and is recognized as a mentor for Project-Based Learning (PBL) in J2EE. 2. Bronze medal for “Inspire Faculty Partnership Level 2018” by Infosys on 23rd March 2018. 3. Gold medal for “Inspire Faculty Partnership Level” at Infosys on 21st August 2017. 4. Shortlisted for DC Finals and was awarded Special Jury Prize in “Inspire Excellence Award –The Annual Even (Technical Track – Content Guru)” on 21st August 2017. 5. Successfully qualified the ‘State Eligibility Test for Lectureship’ (SET 2016) held on 21st February 2016. 6. Bronze medal for “Inspire Faculty Partnership Level” at Infosys on 29th June 2016. 7. Shortlisted for DC Finals “Inspire Excellence Award – The Annual Even (Technical Track)”, June 2016. 8. Gold Medalist and First Rank Holder in M.E. (CSE) at Anna University, Chennai in 2006. 9. Awarded the Best Faculty Award in 1997 by NIIT, Chennai.
Research grants Received	<ol style="list-style-type: none"> 1. Received a grant of Rs. 25,000/- for R&D Grant-in-Aid from ‘Institute of Engineers (IEI)’ for the project titled “Collision Prevention System by Vehicles on Illegally Parked Vehicles and Slow Moving Vehicles in Highways using IoT” Received April 2018. 2. yukthi
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Vidwan Link / ID	ID : https://vidwan.inflibnet.ac.in/profile/302494
Research Gate Link / ID	https://www.researchgate.net/profile/Sandra-Johnson-13
Scopus Link / ID	ID : https://www.scopus.com/authid/detail.uri?authorId=57198004013