


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 : 22 years 10 months		in RMK : 15 years 10 months	
Papers Published in Journal	Overall : 24		After Joining RMK : 24	
List of Papers Published	<ol style="list-style-type: none"> 1. Nivedhitha DP, Madhumitha G , Janani sri J,Sandra Johnson, Priyanka Pramila R, Divya D M,, 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 2. Sandra Johnson, B PrathushaLaxmi, “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 3. Sandra Johnson, Abdul Naeem, Chran kumar, Benedict Vinusha. V, CNN based Cyclone intensity estimation using Satellite Imagery, Second International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC-2022), AIP Conference 4. S. Johnson, L. J. J R, G. Karthikeyan, V. M and D. 			

Sasireka, "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>]

5. V. Benedict Vinusha., V. Indhuja. and **S. Johnson**, "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>]
6. **Johnson S.**, Madhumathi J., Aishwarya R., Vedha Pavithra V. (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
7. **Sandra Johnson**, Chelseaya S, Darapaneni Aparna, Deepithaa V A, "Green Scheduler in Cloud Computing", *International Journal of Modern Agriculture*, Volume 10 Issue 3, pp: 136-141, Sept. 2021.
8. **Sandra Johnson** , Sai Charan K , Sai Chetan K , Sri Saideep V, "Detecting Malicious Tweet Bots using Machine Learning Algorithms", *Turkish Online Journal of Qualitative Inquiry (TQJQI)*, Volume 12, Issue 04, pp: 2276- 2285, April, 2021.
9. P. Gayathri, P. Gowri Priya, L. Sravani, **Sandra Johnson**, and Visanth Sampath, "Convolutional Recurrent Neural Networks Based Speech Emotion Recognition", *Journal Computational Theoretical Nanoscience*, Volume 17, Number 8, 3786–3789 (August 2020)
10. **Sandra Johnson**, Geetha Ramadas, "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)

11. **Sandra Johnson**, A Jasmine Gilda, T Sethukarasi, "Spatio-Temporal Dengue Prediction System using Hybrid Algorithm" , TEST Engineering & Management, Vol. 82, pp: 14856-14860, Jan-Feb. 2020.
12. A Jasmine Gilda, A JebaSheela, **Sandra Johnson**, T Sethukarasi, "Application Engine using Blockchain Technology" , TEST Engineering & Management, Vol: 82, pp: 8840-8844, Jan-Feb. 2020.
13. **Sandra Johnson**, Mohammed Fayaz and Hari Krishnan, "IoT based rear-end collision avoidance system in highways", International Journal of Advanced Computer Research, Vol 9(45), pp: 379-385, August 2019.
14. Infant Ujval Rex P, Kameshwaren S, Aravinth S, **Sandra Johnson**, "Fish Sniffer", International Research Journal of Engineering and Technology (IRJET), Volume: 06 Issue: 03, pp:7706-7710 , Mar 2019.
15. Yokesh Kumar C R, Srikanth U, PremKumar M, **Sandra Johnson**, "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.
16. Dillibai. R, **Sandra Johnson**, "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.
17. E. Bhanu, V. Kundana, S. Keerthi Reddy, **Dr. Sandra Johnson**, "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.
18. Kaavya, Kamalini, Hemalatha and **Dr. Sandra Johnson**, "SteganoPIN – A secured PIN for ATMs", International Journal of Trend in Research and Development (IJTRD), pp:9-11; ISSN: 2394-

	<p>9333, Special Issue NCICE-17 , February 2017.</p> <p>19. Sandra Johnson, Felci Rajam .I and Indira .N (2013), “A Survey of Methodologies for a Secure Data Storage in a Cloud Environment”, Pensee Journal, Vol. 75, pp. 244-252.</p> <p>20. 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>21. 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>22. 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>23. 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>24. 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>	
<p>Papers Presented in Conferences (Scopus / WoS indexed only)</p>	<p>Overall : 11</p>	<p>After Joining RMK : 11</p>
<p>Ph.Ds / Projects Guided</p>	<p>Ph.Ds Guided : Nil</p>	<p>Student Projects Guided : 35</p>
<p>Books Published :</p>	<p>Count : 2</p> <ol style="list-style-type: none"> 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) 2. Dr. N R Gladiss Merlin, Dr. Sandra Johnson, Database Management Systems, Veda Publications, 	

	2023. (ISBN No: 978-93-91930-38-7)	
Patents	Published Count : 5	Granted Count : -
	<ol style="list-style-type: none"> 1. Published a patent on “Women Safety Wearable Device using Speech Emotion Recognition and IoT”, 202241019796 dt 13/5/2022 2. Published a patent on “Novel Private Framework Design For Content Based Image Retrieval in Cloud Computing”, 202141041832 A dt 01/10/2021 3. Published a patent on “MULTIPLE SENSOR DATA FUSION ENABLED AI BASED EMOTION IDENTIFICATION SYSTEM” (202141030288 A dt. 16/07/2021) 4. Filed a patent on “Fish Freshness Detector Using IOT” 202041044208 dt. 10/10/2020 5. 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 : 1	
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 	

	<p>Annual Even (Technical Track – Content Guru)” on 21st August 2017.</p> <ol style="list-style-type: none"> 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.
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Google Scholar Link / ID	ID : https://scholar.google.co.in/citations?user=NcGaT4MAAAAJ
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