


FACULTY PROFILE

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| Name of Teaching Staff / RMK ID | <div style="text-align: right;">  </div> Dr.A.PONMALAR/T1135 | | |
| Designation | Associate Professor | | |
| Department | Artificial Intelligence and Data Science | | |
| Date of Joining the Institution | 08.06.2024 | | |
| Qualifications | Ph.D | M.E(CSE) | B.E(CSE) |
| Total Experience | Overall : 17 | | in RMK : 1 Year 2 months |
| Papers Published in Journal(Scopus) | Overall : 43 | | After Joining RMK :10 |
| List of Papers Published | <p>International Journal Publications</p> <ol style="list-style-type: none"> 1. An intrusion detection approach using ensemble Support Vector Machine based Chaos Game Optimization algorithm in big data platform, Applied Soft Computing, vol. 116, no. 108295.(SCI Indexed) ISSN: 1568-4946, Year 2022, pp: 1-13 DOI: 10.1016/j.asoc.2021.1 08295 (Impact Factor: 8.263). 2. Hybrid Whale Tabu algorithm optimized convolutional neural network architecture for intrusion detection in big data, Concurrency and Computation Practice and Experience. SCI Indexed)ISSN:1532-0634 (Impact Factor: 2.175) 3. Deep Derma Scan: A Proactive Diagnosis System for Predicting Malignant Skin Tumor with Deep Learning Mechanisms. International Journal of Engineering Trends and Technology, Volume-70, Issue No-8, Year-2022, pp: 310-17DOI:https://ijettjournal.org/archive/ijett-v70i8p232 (Impact Factor: 0.93) 4.Smartphone controlled fingerprint door look system (SCFDLS), Advances in Parallel Computing 39, pp. 400-407, 39, pp. 400-407 (Impact Factor: 0.43) 5. A multi-hop protocol using advanced multi-hop Dijkstras algorithm and tree based remote vector for wireless sensor network, Journal of Ambient Intelligence and Humanized Computing (SCI Indexed),2001 (Impact Factor: 6.163) 6. Efficient registration of land using block chain | | |

List of Papers Published

8."An innovative parallel storage using proxy re-encryption" at International Journal of Latest Trends in Engineering and Technology Special Issue NCRTCC 2017, pp.014-018 e-ISSN: 2278-621X.

9."Big data stream security and Privacy", IJEECS Journal Vol 6 issue 11, Nov 2017.

10."Transparent and Immutable Taxing System Using Block Chain" in International Journal of Engineering, Applied and Management Sciences Paradigms(IJEAM)

11."Intelligent Crime Analysis System using Pyspark" in International Journal of Psychosocial Rehabilitation, Vol. 24, Issue 05, 2020 ISSN: 1475-7192

12. "Decentralized E-Voting System Based On Blockchain" in International Journal of Scientific Research in Engineering and Management (IJSREM), Volume: 05 Issue: 03 | March – 2021, ISSN: 2582-3930

13. "Decentralized E-Voting System Based On Blockchain" in International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 05 Issue: 03 | March - 2021 ISSN: 2582-3930.

14. "Expert Skin Disease Identification System Using Machine Learning", Annals of R.S.C.B., ISSN:1583-6258, Vol. 25, Issue 5, 2021, Pages. 2193 – 2197.

15. "ENHANCED HEALTH RECORD SHARING USING BLOCKCHAIN", Turkish Journal of Physiotherapy and Rehabilitation; 32(3) ISSN 2651-4451 | e-ISSN 2651-446X

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| Papers Presented in Conferences (Scopus / WoS indexed only) | Overall : 43 | After Joining RMK :-5 |
| Ph.Ds / Projects Guided | Ph.Ds Guided : -Nil | Student Projects Guided :30 |
| Books Published : | Count :2 | |
| | List :1 Book Published 1. Data Structures, Charulatha Publications,ISBN No. : 978-93-5577-844-4 2. Software Engineering, Charulatha Publications,ISBN No:978-93-6260-526-9. | |
| Patents | Published Count :4 | Granted Count :1 |
| | 1.202041051703 Auto Navigation Drone System 27-11-2020 FER submitted 2.2021100879(AusPat) Deep Learning Based Temporal Recommendation with Reduced User Privacy Concern in Cloud Environment 22-04-2021, Granted 3.202141041804 Effective Smart Stick For Assisting Blind People With Alert Based Object Identification And Recognition Of Route Using IoT 06-09-2021 Published 4.202141059363 Categorization Of Communication Networking Protocol On Malicious Network Traffic Mechanism Using Mac 20-12-2021 Published 5.202241019847 Analysis of Medical Data Mining and Decision Support System based on the Medical Internet Integration 1-4-2022 Published | |
| Professional Memberships | Count :2 | |
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| Consultancy Projects Completed | Count :2 1. Dr.A.Ponmalar,Ms.R.Priyanka Pramila completed the Consultancy Project "Payroll Software and Stock Maintenance" for Tamil Industries,Chennai. 2. Ms.R.Priyanka Pramila,Dr.A.Ponmalar completed the Consultancy Project "Payroll Software and Stock Maintenance" for SKG Foods & Beverages,Chennai. |
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| <p>Awards Received</p> | <p>Count :3</p> <p>Received Best Performance faculty award in the AY2018-2019</p> <p>Received Researcher Award in contributing more number of publications in the AY 2022-23.</p> <p>Awarded the certificate of recognition on 31st July 2024 in appreciation of publishing her research in a Q1 Journal during the course of her Ph.D. under the faculty of ICE by Centre for Research, Anna University.</p> <p>NPTEL Discipline Star Award (July 2024 to Dec 2024)</p> <p>NPTEL Discipline Star Award (Jan 2025 to May 2025)</p> <p>NPTEL Believers Award(Jan 2025 to May 2025)</p> <p>NPTEL Enthusiasts Award(Jan 2025 to May 2025)</p> <p>NPTEL Domain Certification(Systems)</p> |
| <p>Research grants Received</p> | <p>1. Sanctioned Rs 1,00,000 from IEDC-DST for the project titled "Auto Navigation Drone System" in the year 2018-2019. The Auto Navigation Drone System Project selected for DSCT Innovation Festival - 2020 and shortlisted to showcase the product in the "Technology Exhibition 2020 cum Training Programme", Anna University during 27th-29th February 2020.</p> |
| <p>Orchid Link / ID</p> | <p>https://orcid.org/0000-0002-5338-1877</p> |
| <p>Google Scholar Link / ID</p> | <p>ID : https://scholar.google.com/citations?user=H0FOABgAAAAJ&hl=en</p> |
| <p>Vidwan Link / ID</p> | <p>181768</p> |
| <p>Research Gate Link / ID</p> | <p>https://www.researchgate.net/profile/Ponmalar-Arulsamy/research</p> |
| <p>Scopus Link / ID</p> | <p>https://www.scopus.com/authid/detail.uri?authorId=57205556561</p> |