



TAGORE ENGINEERING COLLEGE

(A Member of Tagore Group of Institutions Chennai)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

ACCREDITED BY IQAC-NAAC WITH 'A' GRADE

FACULTY PROFILE

PERSONAL DETAILS			
Name & Qualification	Dr.R.BEULAHJAYAKUMARI, M.E., Ph.D.,		
Designation	PROFESSOR		
Department	Information Technology		
Total Teaching Experience	16 Years		
Total Research Experience	10 Years		
Total Industry Experience	-		
Area of Specialization	Wireless Sensor Network, Data Science		
AICTE Faculty ID	1-7383331771		
Email ID	hod.it@tagore-engg.ac.in		
EDUCATIONAL DETAILS			
Degree	Branch/Specialization	University	Year
UG	B.E-Electrical and Electronics Engineering	Madras University Chennai	1999
PG	M.E-Computer Science and Engineering	Anna University Chennai	2008
Ph.D	I&C	Anna University Chennai	2016
RESEARCH/PUBLICATION DETAILS			
Publications in Journal			
<p>1. Abisha A , Dr.R.Beulah Jayakumari and D Doreen Hephzibah Miriam have published a paper title “Drought Prediction using Geo-Spatial Big Data” International Journal of Recent Technology and Engineering (IJRTE), ISSN:2277–3878, Volume-8, Issue-2S5, July 2019.</p> <p>2. Dr.Beulah Jayakumari R, Gopalakrishnan P, Nithyanandham N, P2017,, „Farming Assistance Mobile Application“ International Journal of Multee Disciplinary Research, vol.2017, ISSUE 2, march-April.</p> <p>3. Jemimah C., Lilly Sheeba S., Beulah Jayakumari R and Vijayakumar A Classification on Survival Rate of Ebola Patients using Bigdata AUSTRALIAN JOURNAL OF BASIC AND APPLIED SCIENCES, 10(2) Special 2016, Pages: 67-74.</p> <p>4. Beulah Jayakumari.R, Dr.Jawahar Senthilkumar V, P2015, “Priority Based Congestion</p>			



Control Dynamic Clustering Protocol in Mobile Wireless Sensor Networks, The Scientific World Journal, vol. 2015, ArticleID 596138, pp.1-10.

5. **Beulah Jayakumari. R**, Dr. Jawahar Senthilkumar V, P 2015, „An Energy Efficient Routing Protocol in Wireless Sensor Network using Optimized Local Connectivity Approach“, International Journal of Applied Engineering Research, vol. 10,no.5, pp. 3900-3905.
6. **Beulah Jayakumari.R** ,Dr.Jawahar Senthilkumar V,P2014, “Optimized Priority Assignment Scheme For Congested Wireless Sensor Networks, Journal of Theoretical and Applied Information Technology, vol.65, no. 3, pp. 1817-3195.
7. **Beulah Jayakumari. R**, Dr. JawaharSenthilkumar V, P 2013, “ Priority Based Congestion Detection and Avoidance in Wireless Sensor Networks ,Journal of computer science,vol.9,no.3, pp.350-357.
8. Meera. S, **Beulah Jayakumari. R**, Dr. Jawahar Senthilkumar V, P 2012, “Congestion control in Wireless Sensor Networks using Prioritized Interface Queue”, International Journal of Computer Application, pp. 32-37.
9. **Beulah Jayakumari.R**, Vinoth Lakshmi S 2015, ”Routing Imperative Data Packets in Wireless Sensor Networks using Congestion Free Path “Indian Journal of Science and Technology, Vol8(32), November2015

ConferenceProceedings

1. **Dr. R. Beulah Jayakumari**, LathifunisaTausifa A , Surya S J, Vignesh A , ‘A novel Emotion Prediction usingBlue Eye Technology’ proceedings of 7 th International Conference on recent Advances in Science, Engineering and Management (ICRASEM-2022) on January 25th 2023.
2. **Dr. R. Beulah Jayakumari** , Merlin Vensiya V , Durgadevi E , Vaishnavi M R ‘Early Detection of Dengue Diagnosis using Machine Learning’ proceedings of 7 th International Conference on recent Advances in Science, Engineering and Management (ICRASEM-2022) on January 25th 2023
3. **Dr. R. Beulah Jayakumari** , HinaFathima K , Hema Lakshmi , Vignesh S ‘Smart Bathrooms for Physically Challenged using Internet of Things’ proceedings of 7 th International Conference on recent Advances in Science, Engineering and Management (ICRASEM-2022) on January 25th 2023
4. **Dr. R. Beulah Jayakumari** , Mathimithra K V , Jaiththira R , Charumathi B ‘Applications based on Fingerprintanalysis using Machine Learning’ proceedings of 7 th International Conference on recent Advances in Science, Engineering and Management (ICRASEM-2022) on January 25th 2023
5. **Dr. R. Beulah Jayakumari** , K Swetha , G. Saranya ,G.Lavanya ,G.Nandhini ‘AI-Powered Nitrition Analyzer for Fitness Enthusiast’ proceedings of 7 th International Conference on

recent Advances in Science, Engineering and Management (ICRASEM-2022) on January 25th 2023

6. **Dr. R. Beulah Jayakumari** , Hemapriya C , Jennifer J , SugheerthiMeena S K , Sandhya ‘IoT based Child Safety Monitoring and Notification system proceedings of 7 th International Conference on recent Advances in Science, Engineering and Management (ICRASEM-2022) on January 25th 2023
7. **Dr. R. Beulah Jayakumari** , K. Rahu Raman ‘Vaccination Camp Location Suggester’ proceedings of AICTE Sponsored Fourth International conference on emerging trends in Science, Engineering and Technology (ICETSET 2022) on July 7th & 8th July 2022.
8. **Dr. R. Beulah Jayakumari** , R. Nivedha, V. Hindu Priya ‘Substantiate Medical Documents Releasing With Privacy And Security’ proceedings of AICTE Sponsored Fourth International conference on emerging trends in Science, Engineering and Technology (ICETSET 2022) on July 7th & 8th July 2022.
9. Ramya R, Lilly Sheeba S, Christalin Nelson S , **Beulah Jayakumari R**, “ P 2022, ‘Counting the Presence of the People in a Real Time Contained Area Using Convolutional Neural Network” Proceedings of the International virtual Conference on Machine Learning Applications in Applied Sciences and Mathematics(IVCMASM 2022) , March 2022
10. SugheerthiMeena SK, Vijayalakshmi V, **Dr. Beulah Jayakumari R**, “Survey On Real TimeBigDataAnalytics- ApplicationsAndChallenges”proceedingsofAICTESponsoredInternational e-conference on Electrical, Communication and Computing(ICECC2020) onAugust 20&21 2020.
11. Ashwini, Saradha, **Dr. R. Beulah Jayakumari**, “An Overview Of Expert System In ArtificialIntelligence”proceedingsofAICTESponsoredInternationale-conferenceonElectrical,Communicationand Computing(ICECC2020)on August 20&212020.
12. Shakthisree B, **Dr. R. Beulah Jayakumari**,Capsule Networks (CapsNet)” proceedings ofAICTE Sponsored International e-conference on Electrical, Communication and Computing(ICECC2020)on August20&21 2020
13. A Abisha ,**Dr.R.Beulah Jayakumari**, Dr.D.Doreen Hepzibah Miriam, P 2019, “Drought Prediction Using Geo-Spatial Big Data” Proceedings of the International Conference on Emerging Trends in Science and Engineering, march 2019
14. M.Shanjana Mahalakshmi, **Dr.R.BeulahJayakumari**, P2019, “Conversion Of Hand- Gestures To Text And Speech Using internet Of Things” Proceedings of the

- International Conference on Emerging Trends in Science and Engineering, march2019.
6. Nithya M, Priyadharsini E K, Sneha B, **Dr.R.Beulah Jayakumari**, P 2019, “Diagnosis of Blood Borne Diseases” Proceedings of the International Conference on Emerging Trends in Science and Engineering, march 2019
 7. C.Dinesh Kumar, P.Gayathri, J.Gopalakrishnan , R.Gopika, **Dr. R. Beulah Jayakumari**, P2019, „Smart and Secure Insurance Claim Application Using Mobile APP“ Proceedings of the International Conference on Emerging Trends in Science and Engineering, march 2019
 8. B.Sundar, A.Suriya, S.Deepak Kumar, J.Rahul,**Dr.R.Beulah Jayakumari**, P2019, “OUTLINE OF BLOCKCHAIN TECHNOLOGY” Proceedings of the International Conference on Emerging Trends in Science and Engineering, march2019
 9. **Beulah Jayakumari. R**, P 2016, „Car Pooling for Passengers in Real Time City Taxis based on Dynamic Ride Sharing“ Proceedings of the international conference on Emerging Engineering Trends and Science, march 2016.
 10. **Beulah Jayakumari. R**, P 2014, „Congestion Aware Routing in Wireless Sensor Networks“ Proceedings of the International conference on Advanced Computing, Control Systems, Machines and Embedded Technology“ (ICACT2014)on 7 &8March 2014.
 11. **Beulah Jayakumari. R**, P 2013, „Priority based Message Scheduling with Neighborhood buffer check based Message Drop in Delay Tolerant Networks“ Proceedings of the International conference on Recent Advancements in Engineering & Technology, April2013.
 12. Meera. S, **Beulah Jayakumari. R**, Dr. Jawahar Senthilkumar V, P 2012, „Congestion control in Wireless Sensor Networks using Prioritized Interface Queue, Proceedings of the international conference on recent trends in computational methods, communication and controls,pp. 32-37.
 13. **Beulah Jayakumari.R**, S.Vaishnavi , J.Sasirekha, R.Sowmiyarajalakshmi ,K.Saranya, 2018 ,”A Survey on Congestion Control in Wireless Sensor Network Using Multiples Sink“ proceedings of National Conference on Emerging Trends in Science Engineering Technology. PP.196– 202.
 14. **Beulah Jayakumari. R**, Anand B, Bharath V , Sushmitha L K 2015, „ Enhanced Heuristic function based Energy Aware Routing Protocol in Wireless Sensor Networks“ proceedings of National Conference on Recent Trends in Information Technology, march2015.
 15. **BeulahJayakumari.R**, Meera.S, Dr.Jawahar SenthilkumarV, P2012, “Congestion control In Wireless Sensor Networks using Cross Layer Approach“ proceedings of National

Conference on computer and communication technology, march 2012.

16. **Beulah Jayakumari. R**, Revathi K, 2011,“Resource and Traffic based Congestion Control inWSN”proceedings of National Conference on Researches in Computer Application & Information Technology, feb 2011.
17. **Beulah Jayakumari. R**, Hannah Rose Esther T 2010,“ Intelligent and Effective Prediction of various Diseases using Naïve Bayes Classifier in Data Mining” proceedings of National Conference on Issues and Trends in Advanced Computing, march 2010.
18. **Beulah Jayakumari. R** 2008,“ Face Detection in a Complex Background” proceedings of National Conference on Recent Innovation in Computing Technology (NCRICT‘08) march 2008

Books/ChaptersPublished

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FundReceived

1. Grant Rs.30,000 from CFD,Anna Universityfor six day online FDTP titled cloud computing between 18.07.2022to 23.07.2022.
2. GrantRs.7500 Received from TNSCST –Student Project Scheme Titled 'Drought Prediction Using Geospatial bigdata' on 18.02.2019

PatentApplied/Published/Granted

1. Innovative Indian Patent, IPR India, filed a patent“AI powered nutrition analyzer for fitness enthusiast” and published on 09.12.2022
2. Innovative Indian Patent, IPR India, filed a patent “IOT Based Safety Gadget for Child Safety Monitoring and Notification” and published on 09.12.2022

CITATIONS

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RESEARCHGUIDANCEDETAILS

Sl.No	University	SupervisorID/Reference
1	Anna University, Chennai	-
2	Number of UG Scholars Guided	50
3	Number of PG Scholars Guided	8
4	Number of Ph.D. Scholars Guided	-

5	Number of Ph.D. Scholars Pursuing	-
PROFESSIONAL SOCIETY MEMBERSHIP DETAILS		
Sl.No	Professional Society Name	Member ID
1	Indian Society for Technical Education (ISTE)	LM77468
2	The International Association of Engineers (IAENG)	