

FACULTY PROFILE



Dr.B.Rajesh Shyamala Devi

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Experience : 20.7 Years

Research area : Wireless Networks and Communication

Recent Publications:

International Journal:

S.Brilly Sangeetha,D. Karunkuzhali, B. Rajesh Shyamala Devi,M. Suresh Anand,Suganthi,“ Coordination schemes for resource oriented operation in wireless sensor actuator networks with queuing theory” *Journal of Ambient Intelligence and Humanized Computing*, <https://doi.org/10.1007/s12652-021-03203-y>,April 2021.

B.R Shyamala Devi, J.Suganya, P.Elangovan, K.Sakthidasan,“ Energy Efficient Adaptive Device-Dependent Data Transmission Method for Internet of Things Aided Wireless SensorNetworks” *Journal of Green Engineering (JGE)*,Volume-10, Issue-10, October 2020,pp.no:8414-8426,Jan 2020.

B.Rajesh Shyamala Devi, A.George, Aby.K.Thomas,“ Performance Investigation of Low Power Radio Duty Cycling MAC for resource constrained WSN” *International Journal of Engineering and Technology*, Vol.7, Issue No. 1.9,pp.no: 93-98,Jan 2018.

B. Rajesh Shyamala Devi and A. George “Hybrid CSMA/CA-TDMA Based MAC Protocols for Wireless Sensor Networks” *ARN Journal of Engineering and Applied Sciences* , Vol. 10, No. 4, MARCH 2015 ISSN 1819-6608.

Devi Priya, B.Rajesh Shyamala Devi and Thenkumari.K “Efficiency Improvement In Wireless Sensor Networks Using Abc Algorithm For Cluster Packet Forwarding” *Indian Journal Of Science and Technology*,Volume3,Issue3, August 2016.

D.Antony Pradeesh, B.R.Shyamala Devi”Duty Cycle Scheduling Based on A-MAC Protocol for Wireless Sensor Networks” *International Journal of Science and Research (IJSR)*, Volume 3 Issue 3, March 2014 ISSN (Online): 2319-7064

Sathish G.P, B.R.Shyamala Devi, “Power Efficient Data Transmission in a Clustering Protocol with Mobile Sink” *International Journal of Computer & Electronics Research*, Volume 1 Issue 5 February, 2013.

International Conference :

Nami Susan Kurian,B.Rajesh Shyamala Devi, Sujatha M. , “Mobile Sink Data Gathering and Path Determination in Wireless Sensor Networks: A Review ” *2022 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET)*, pp.no (306-310), March 24,2022.

B.Rajesh Shyamala Devi, A.George and Aby.K.Thomas, “Performance Analysis of an Efficient MAC mechanism for Wireless Sensor Networks” *In Proceedings of International Conference on Advanced Technologies in Engineering, Management and Sciences (ICATEMS'17)* , pp.no (443-448),November 14-15,2017.

B.Rajesh Shyamala Devi,Dr.A.George and Dr.S.K.Srivatsa “State-of-art and Performance Analysis of RF MAC protocol for Energy Harvesting Wireless Sensor Networks” *In Proceedings of International Conference on Innovations in information, Embedded and Communication Systems (ICIIECS)*, pp.no (304-308),2016.

B.Rajesh Shyamala Devi,Dr.A.George and Dr.S.K.Srivatsa, “A Survey of Energy Efficient MAC Protocol for Wireless Sensor Networks” *IEEE Sponsored 9th International Conference on Intelligent Systems and Control(ISCO)*,2015.

R.Kamalakkannan and B.R.Shyamala Devi “An Intelligent Hybrid MAC with Traffic-Differentiation-Based QoS for Wireless Sensor Networks” *5th International Conference on Science and Innovative Engineering ICSIE* April 2015.

M.Chakravarthy and B.R.Shyamala Devi, “Automated and enhanced multisensor arrangement in broad gauge railway system” *International Conference on Trends in Technology for Convergence*”TITCON-2014.

Lavanya, B.R.Shyamala Devi and P.Pandiaraj, “Improving the Performance of TCP over Wireless Networks” *International Conference on Computational Intelligence & Advanced Manufacturing Research,ICCIAMR* 2013.

Madala Vandana and B.R.Shyamala Devi, “Energy Efficient PCS-MAC Protocol Designed For Wireless Sensor Networks” *International Conference on Advances in Computers, Communication and Management*”, ICCM-2013.

Z. Nizam Ahmed and B.R.Shyamala Devi, “An efficient Hybrid channel assignment protocol for multi-interface wireless mesh network” *In the proceedings of the International Conference on Modeling, Optimization and Computing (ICMOC 2012)*, Vol. 1, pp.395-402, Apr. 10-11, 2012.

D.Sathish and B.R.Shyamala Devi, “*Efficient Resource Sharing In Dynamic Clustering Protocol*,”In the proceedings of the International Conference on Modeling, Optimization and Computing (ICMOC 2012), Vol. 1, pp. 384-394, Apr. 10-11, 2012.

Jeena A Thankachan, Shyamala Devi B. R, “*Performance Evaluation of A QoS MAC Protocol in Wireless Sensor Networks*” Annual International Conference on Emerging Research Areas, 2011.

J.V.Anand, B.R.Shyamala Devi, “*Cross Layer Optimization Using Innovative Techniques of HMAC and Windows Supervisor*” International Conference on Communication and Signal Processing” Mar 2011.

International Patent:

1. Australian patent titled ,"*Securing Critical Assets Of Chemical Industries Using Secure Development Operational Environment(SDOE) Framework*" , Granted on 16.06.2021, Patent No: 2021102532.
2. Australian patent titled ,"*A Context Aware Secure Wireless Body Zone Systems for Heart Patients*" , Granted on 16.06.2021, Patent number: 2021102533.
3. Compact Planar Strip line Bowtype Antenna for sub-7Ghz / Vo5G Applications , German patent granted 07.06.2022, Patent number: 20 2022 102 758