

FACULTY PROFILE



Dr.B.Rajesh Shyamala Devi

Assistant Professor (SG) ,
Hindustan Institute of Technology and Science
rsyamla@hindustanuniv.ac.in

Experience : 19.8 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 Sensor Networks” *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 :

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 (ICIECS)*, 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.