

Dr. B.Amutha

Professor Head

Computer Science & Engineering

SRM Institute of Science & Technology

Chennai-603203

Mobile : 9445242714

E-Mail : bamutha62@gmail.com

International Journals

- B.Amutha,M.Ponnaivaikko,"RSSI Based Optimized Location Estimation [ROLE] Algorithm for Wireless Sensor Networks" IEEE Systems Journal, Accepted for Publication.
- B.Amutha,M.Ponnaivaikko,"Energy Efficient Hidden Markov Model Based Target Tracking Mechanism in Wireless Sensor Networks "Journal of Computer Science 5(12):1082-1090,2009.ISSN 1549-3636.
- B.Amutha,M.Ponnaivaikko,"Location Update Accuracy in Human Tracking System Using Zigbee Modules"9IJCIS)International Journal of Computer Science and Information Security,Vol 6,No 2,2009,[Impact Factor 0.423].
- B.Amutha,S.Arunkumar,M.Ponnaivaikko,"Enhanced QoS Mechanism using Mobile Agents in Wireless Sensor Networks"International Journal of Imaging Science and Engineering(IJISE),GA,USA,ISSN 1934-9955,VOL 1,NO 4,October 2007.
- B.Amutha,M.Ponnaivaikko,"Predator-The Blind Vision-Mobile Assistant as a Navigational Aid for Blind Children to identify Landmarks" International Journal of Recent Trends in Engineering,Vol 2,No 3,November 2009.
- B. Amutha, M. Ponnaivaikko, N.Karthick," Localization Algorithm Using Varying Speed Mobile Sink for Wireless Sensor Networks" International Journal of Ad Hoc Sensor and Ubiquitous Computing [IJASUC],Vol 1 No 3,pp 130-149,September 2010.
- B.Amutha,M.Ponnaivaikko," Virtual Eye-The Blind Navigation Model using Wireless Sensor Network" IJIA- International Journal of Information Acquisition World SciNet World Scientific Publications,VOL 7,ISSUE 4,PP 285-297 December 2010, DOI No: [10.1142/S021987891000221X](https://doi.org/10.1142/S021987891000221X)
- B.Amutha,Nivedha Devi," AMNI'09 PROTOCOL", International Journal of Information Technology and Knowledge Management, July-December 2009, Volume 2, No. 2, pp. 297-303'
- N. Karthick, B. Amutha, J. Naren, and K. Venkatraman, "Sensor-Based Dead Reckoning for land vehicle navigation system," International Journal of Recent Trends in Engineering, vol. 2, no. 4, pp. 240-242, 2009.

- K.Renganathan,B.Amutha,"Accsearch:A Specialized Search Engine for Traffic Analysis,PP264-271,IJCSIS,Vol 8,No2,May 2010[Impact Factor 0.423]
- Divyans Mahansaria, R.S. Diwaagar, B. Amutha," A Software Solution [SS5.0] that obviate the attacks due to Shoulder Surfing",International Journal of Intelligent Information Processing (IJIIP),), Vol. 3, No. 2, 501-511, July-Dec., 2009, Publisher - Serials Publications
- K. Sweta and B. Amutha," HMM (Hidden Markov Model) based Speech to Text Conversion for Regional Language (TAMIL)", . International Journal of Artificial Intelligence and Machine Learning, . Issue : May 2011 DOI: AIML052011008[Impact factor 0.765]
- V. Swarna Priya and B. Amutha," Context Dependent Speech Recognition Using VITERBI Algorithm", International Journal of Artificial Intelligence and Machine Learning, Issue : June 2011 DOI: AIML062011011[Impact Factor 0.765]

IEEE Xplore

- B. Amutha, M. Ponnaivaikko, " Locate: A hybrid localization scheme for wireless sensor networks" : Industrial Electronics & Applications, 2009. ISIEA 2009. IEEE Symposium on : 4-6 Oct. 2009, Volume: 1, page(s): 295 300,KualaLumpur,Malaysia.
- Karthick, N.; Prashanth, K.; Venkatraman, K.; Nanmaran, A.; Naren, J., "Accurate Location Estimation for a Dynamically Moving Object Using Modified Particle Filter Algorithm," Advanced Computer Control,2009. ICACC '09. International Conference on, vol., no., pp.301-305, 22-24 Jan. 2009.
- Karthick, N.; Prashanth, K.; Venkatraman, K.; Nanmaran, A.; Naren, J., "Location Estimation Using RSSI and Application of Extended Kalman Filter in Wireless Sensor Networks," Advanced Computer Control,2009. ICACC '09. International Conference on, vol., no., pp.337-341, 22-24 Jan. 2009.
- Nanmaran, Amutha.; Ponnaivaikko, M.; Karthick, N., "Target Tracking with Integrated Coverage in Wireless Sensor Networks," Advances in Computing, Control, & Telecommunication Technologies, 2009. ACT '09.International Conference on, vol., no., pp.806-808, 28-29 Dec. 2009.
- Karthick, N.; Venkatraman, K.; Naren, J.; Amutha, B., "A Resource Management Mechanism for DownLinking in WiMax Networks," Advances in Computing, Control, & Telecommunication Technologies, 2009.ACT '09. International Conference on, vol., no., pp.803-805, 28-29 Dec. 2009.
- Annie Uthra,B.Amutha,,"" Location Aware Computing for specknet", Advance Computing Conference, 2009. IACC 2009. IEEE International : 6-7 March 2009 On page(s): 592 - 596, Patiala Digital Object Identifier: 10.1109/IADCC.2009.4809078
- K. Venkatraman, B. Amutha, N. Karthick, and S. R. Sankar, "A hybrid method for improving GPS accuracy for land vehicle navigation system," in Emerging Trends in Robotics and Communication Technologies,(INTERACT), 2010 International Conference on, 2010, pp. 74-79. [Best Paper Award-First Price] at Sathyabama University

IEEE Conference

- B.Amutha,M.Ponnaivaikko,"Spatial Cognition and Computation of Moving Vehicles using Autonomous Guiding System"2009,IEEE International Advance Computing Conference(IACC 2009,Patiala,India,6-7,March 2009).
- Karthick, N.; Sundaram, N.K.; Amutha, B.;, "An Autonomous Learning Protocol for Optimal Performance in Wireless Ad Hoc Networks," IEEE Advance Computing Conference, 2009. IACC 2009. International Conference on, 6-7 March 2009.

Springer Lecture Notes-Lncs

- B.Amutha,M.Ponnaivaikko,N.Karthick"MobiSpeed-A Range Based Localization Algorithm for Wireless Sensor Networks" ASUC International Conference at Chennai July 23-25,2010.,published in Springer Lecture Notes[LNCs] Series. [Recent Trends in Networks and Communications,Communications in computer and Information Science](#), 2010, Volume 90, Part 4, 672-681, DOI: 10.1007/978-3-642-14493-6_68.
- Divyans Mahansaria, G.S. Kartik, Gautam Singh, Himanshu Mishra, Kartikey Singh, Sandeep Sharma, and B. Amutha,"An Automated and Full-Proof Attendance Marking Scheme (TATTEND) Using Three Integrated Technologies ",International Conference on Recent Trends in Networks and Communications (NECOM 2010), Chennai, India, July 23-25 2010. pp. 190-199. Publisher - Springer.

International Conferences

- B.Amutha, J.I.Sheeba, B.Vanathi,"RSA Based Mobile Agent Multi Resolution Data Integration Algorithm for Remote Medical Care using Distributed Wireless Sensor Networks", International Conference on Information Security and Computer Forensics-ISCF-2006, SRM Institute of Science and Technology (formerly known as SRM University) Dec6-8,2006.
- B.Amutha,M.Ponnaivaikko,Manjunath,"A Hybrid Localization Scheme for Wireless Sensor Networks"International conference on Emerging Trends in Computer Science at Sethu Engineering College September,2007
- B.Amutha,M.Ponnaivaikko,ArunKumar,"Enhanced Qos Mechanism for Wireless Sensor Networks" "International conference on Emerging Trends in Computer Science at Sethu Engineering College,September2007
- B.Amutha, B.Vanathi, Members, IWSA, "Sowing Seeds in the Young Minds To Achieve Greater Heights" International Symposium on Sustaining Global Pressures: Women In Science and Engineering, Next Generation Challenges and Opportunities, Indian Women Scientist Association[IWSA] Kalpakkam Branch, January 3-5,2008
- A.Jayasekar, B.Amutha Precilla Mary,Selvanayagi,,"Performance Analysis of Synapse and RSSI Based Localization Algorithm in Wireless Sensor Networks", at the International Conference on Emerging Trends in Computer Applications at Tirunelveli Engineering College,2008
- B.Amutha, K.Venkatraman,"Design of Zigbee enabled wireless pen using Surveillance camera for obstacle detection "International Science Congress, SRM Institute of Science and Technology (formerly known as SRM University), Jan 3-7, 2010

- N.Karthick,R.Vijayakumar,B.Amutha,"Design and Development of a Zigbee Enabled Wireless Pen for Visually Impaired"International Conference on Emerging Trends in Computer Science at Sairam Engineering College on Dec 2009.

National Conferences

- B. Amutha, J.I.Sheeba,"A Mediation Protocol for Energy Consumption in Wireless Sensor Networks", in the First National Conference on Emerging Trends in Instrumentation Systems-NCETIS'06 at Sri Ramakrishna Engineering College,Coimbatore,January 5-6,2006
- B. Amutha, M.Ponnavaikko,J.I.Sheeba,"MAC Protocol Mechanism for Energy Consumption in Wireless Sensor Networks", in the National Conference on Emerging Trends in Computer Science and Engineering-ETICSE'06,AT K.S.Rangasamy College of Technology,Tiruchengode,Januay 6-7,2006
- B. Amutha, C.Malathy,K.Annapoorani,"Reaching Greater Peaks", in the National Conference on Role of Women for India Ahead,SRM Institute of Science and Technology (formerly known as SRM University),Chennai,April2-3,2007.
- Karthick, N.; Guhan, A.S.; Baranidharan,B.Murugananadham, B.Amutha;, "Performance Analysis of Routing Protocol Mechanism for Wireless AdHoc Networks" in Emerging Trends in Computer Science and Engineering, 2009. ETICSE'09.National Conference on,at K.S.Rangasamy College of Technology,Tiruchengode, 20 Feb. 2009.