

uniform and non-uniform deployment of the nodes using multiple sensory data with other propagation model.

References:

- [1] I.F.Akyildiz, W.Su, Y.Sankarasubramaniam, and E.Cayirci. : A Survey on Sensor Networks, *IEEE Communication Magazine*, Vol.40 No.8, pp.102-114, 2002.
- [2] Angelo Cenedese, Giulia Ortolan, and Marco Bertinato. : Low-Density Wireless Sensor Networks for Localization and Tracking in Critical Environments, *IEEE Transactions on Vehicular Technology*, Vol. 59, No. 6, pp. 2951 – 2962, 2010.
- [3] Rui Huang, Gergely V.Zaruba. : Incorporating Data from Multiple Sensors for localizing nodes in Mobile Ad Hoc Networks, *IEEE Transactions on. Mobile Computing*, vol.6, No.9, pp. 1090 - 1104, 2007.
- [4] T.S.Rappaport. : *Wireless Communications: Principles and Practice*, 2nd edition, Prentice Hall, 2001.
- [5] Babak Pazand, Chris McDonald. : A Critique of Mobility Models for Wireless Network Simulation, *International Conference on Computer and Information Science*, pp. 141-146, 2007.
- [6] Weidong Wang, Qingxin Zhu. : Sequential Monte Carlo Localization in Mobile Sensor Networks, Springer Science+Business Media, LLC2007, *Wireless Networks* 15, pp.481-495, DOI 10.1007/s11276-007-0064-3, 2009.
- [7] Jang-Ping Sheu, Fellow, IEEE, Wei-kai Hu, Student Member, IEEE, Jen-chiao Lin. : Distributed Localization Scheme for Mobile Sensor Networks, *IEEE Transactions on Mobile Computing*, Vol.9, No.4, pp. 516-526, 2010.
- [8] Yuehu Liu, Hao Yu, Bin Chen, Yubin Xu, Zhihui Li, Yu Fang. : Improving Monte Carlo Localization Algorithm Using Genetic Algorithm Mobile WSNs, *IEEE International Conference on Geoinformatics*, pp:1-5, DOI: 10.1109/Geoinformatics, 2012.
- [9] G.V.Zaruba, M.Huber, F.A.Kamangar. : Indoor Location tracking using RSSI readings from a single Wi-Fi access point, Springer Science+Business Media, LLC2007, *Wireless Networks* (2007), pp. 221-235, DOI 10.1007/s11276-006-5064-1, 2007.
- [10] Rui Huang, Gergely V.Zaruba. : Static Path Planning for Mobile Beacons to Localize Sensor Networks, *IEEE International Conference on Pervasive Computing and Communications Workshops (PerComW'07)*, pp.323-330, 2007.
- [11] Rui Huang, Gergely V.Zaruba. : Monte Carlo Localization of wireless sensor networks with a single mobile beacon, Springer Science+BusinessMedia, LLC2008, *Wireless Networks* 15, pp.978-90, DOI 10.1007/s11276-008-0096-3, 2009.
- [12] Joey Wilson, Neal Patwari. : A Fade-Level Skew-Laplace Signal Strength Model for Device-Free Localization with Wireless Networks, *IEEE Transactions on Mobile Computing*, Vol. 11, No. 6, pp.947 – 958, 2012.
- [13] Gang Wang, Kehu Yang, Member, IEEE. : A New Approach to Sensor Node Localization using RSS Measurements in Wireless Sensor Networks, *IEEE Transactions on Wireless Communications*, Vol. 10, No. 5, pp.1389-1395, 2011.
- [14] Lawrence R. Rabiner, Fellow, IEEE. : A Tutorial on Hidden Markov Models and Selected Applications in Speech Recognition, *Proceedings of the IEEE*, Vol. 77 No. 2, pp.257 – 286, 1989.
- [15] Carlo Morelli, Monica Nicoli, Member, IEEE, Vittorio Rampa, and Umberto Spagnolini, Senior Member, IEEE. : Hidden Markov Models for Radio Localization in Mixed LoS/ NLoS Conditions, *IEEE Transactions On Signal Processing*, Vol. 55 No. 4, pp. 1525- 1541, 2007.
- [16] Kevin M. Squire, Member, IEEE, Stephen E. Levinson, Fellow, IEEE. : HMM-Based Concept Learning for a Mobile Robot, *IEEE Transactions on Evolutionary Computation*, Vol.11 No.2, pp. 199-212, 2007.
- [17] Fangjiong Chen, Sam Kwong, Senior Member, IEEE. : Multiuser Detection Using Hidden Markov Model, *IEEE Transactions on Vehicular Technology*, Vol.58 No.1, pp. 107-115, 2009.
- [18] R.Arthi, K.Murugan. : Localization in Wireless Sensor Networks by Hidden Markov Model, *IEEE International Conference on Advanced Computing*, pp. 14-18, 2010.
- [19] Mohamed Ibrahim, Moustafa Youssef. : A Hidden Markov Model for Localization Using Low-End GSM Cell Phones, *IEEE International Conference on Communication*, pp. 1-5, 2011.
- [20] Sebastin Thurn, Dieter Fox, Wolfram Burgard, Frank Dellaert. : Robust Monte Carlo Localization for mobile robots, *Artificial Intelligence Journal*, 128(1-2), pp. 99-141, 2001.