1 List of publications by Dr. Prateek Raj Gautam

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- [J1] P. R. Gautam, S. Kumar, A. Verma, T. Rashid, et al., "Energy-efficient localization of sensor nodes in WSNs using beacons from rotating directional antenna," IEEE Transactions on Industrial Informatics, vol. 15, no. 11, pp. 5827–5836, Nov. 2019. DOI: 10.1109/tii.2019.2908437 issn 1551-3203 Impact Factor: 11.648
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- [J2] P. R. Gautam, S. Kumar, A. Verma, and A. Kumar, "Energy-efficient localization of sensor nodes in wsns using single beacon node," *IET Communications*, vol. 14, no. 9, pp. 1459–1466, 2020. DOI: 10.1049/iet-com.2019.1298 issn 1751-8628 Impact Factor: 1.345
- [J3] A. Verma, S. Kumar, P. R. Gautam, and A. Kumar, "Fuzzy logic based effective clustering of homogeneous wireless sensor networks for mobile sink," IEEE Sensors Journal, vol. 20, no. 10, pp. 5615–5623, May 2020. DOI: 10.1109/jsen.2020.2969697 issn 1530-437X Impact Factor: 4.325 SCIE, Q1
- [J4] A. Verma, S. Kumar, P. R. Gautam, and A. Kumar, "Neural-fuzzy based effective clustering for large-scale wireless sensor networks with mobile sink," Peer-to-Peer Networking and Applications, Jun. 2021. DOI: 10.1007/s12083-021-01167-6 issn 1936-6450 Impact Factor: 3.488 SCIE, Q2
- [J5] A. Verma, S. Kumar, P. R. Gautam, T. Rashid, et al., "Broadcast and reliable coverage based efficient recursive routing in large-scale wsns," *Telecommunication Systems*, vol. 75, no. 1, pp. 63–78, Jun. 2020. DOI: 10.1007/s11235-020-00679-5 issn 1572-9451 Impact Factor: 2.336 SCIE, Q2
- [J6] M. Yadav, P. R. Gautam, V. Shokeen, and P. K. Singhal, "Modern fisher-yates shuffling based random interleaver design for SCFDMA-IDMA systems," Wireless Personal Communications, vol. 97, no. 1, pp. 63-73, May 2017. DOI: 10.1007/s11277-017-4492-9 issn 0929-6212 Impact Factor: 2.017 SCIE, Q2
- [J7] A. Verma, T. Rashid, P. R. Gautam, S. Kumar, et al., "Cost and sub-epoch based stable energy-efficient clustering algorithm for heterogeneous wireless sensor networks," Wireless Personal Communications, vol. 107, no. 4, pp. 1865–1879, Apr. 2019. DOI: 10.1007/s11277-019-06362-6 issn 0929-6212

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- [J9] S. Kumar, P. R. Gautam, A. Verma, T. Rashid, et al., "An energy-efficient transmission in wsns for different climatic conditions," Wireless Personal Communications, vol. 110, no. 1, pp. 423–444, Sep. 2019. DOI: 10.1007/s11277-019-06735-x issn 0929-6212 Impact Factor: 2.017 SCIE, Q2
- [J10] S. Kumar, P. R. Gautam, T. Rashid, A. Verma, et al., "Division algorithm based energy-efficient routing in wireless sensor networks," Wireless Personal Communications, Aug. 2021. DOI: 10.1007/s11277-021-08996-x issn 1572-834X Impact Factor: 2.017
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- [J11] Shilpi, P. R. Gautam, S. Kumar, and A. Kumar, "An optimized sensor node localization approach for wireless sensor networks using rssi," *The Journal of Supercomputing*, pp. 2335–2354, 2022. DOI: https://doi.org/10.1007/s11227-022-04971-wissn 0920-8542 Impact Factor: 2.557 SCIE, Q2
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- [J14] S. Kumar, P. R. Gautam, T. Rashid, A. Verma, et al., "ETDCC: Energy-efficient transmission scheme for dynamic climatic conditions in WSN," TELKOMNIKA (Telecommunication Computing Electronics and Control), vol. 16, no. 3, p. 1126, Jun. 2018. DOI: 10.12928/telkomnika.v16i3.8513 issn 1693-6930 Scopus
- [J15] T. Rashid, S. Kumar, A. Verma, P. R. Gautam, et al., "Pm-EEMRP: Postural movement based energy efficient multi-hop routing protocol for intra wireless body sensor network (intra-WBSN)," TELKOMNIKA (Telecommunication Computing Electronics and Control), vol. 16, no. 1, p. 166, Feb. 2018. DOI: 10.12928/telkomnika.v16i1.7318 issn 1693-6930

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- [J17] T. Rashid, S. Kumar, A. Verma, P. R. Gautam, et al., "RB-IEMRP: Relay based improved throughput energy-efficient multi-hop routing protocol for intra body sensor network (INTRA-WBSN)," International Journal of Computer Networks & Communications, vol. 11, no. 02, pp. 69–82, Mar. 2019. DOI: 10.5121/ijcnc.2019.11205 issn 0974-9322 Scopus
- [C1] P. R. Gautam, S. Kumar, A. Verma, and A. Kumar, "Localization of sensor nodes in WSNs using three dimensional angle of arrival detection at BS," in 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), ZHCET, AMU, Aligarh: IEEE, Nov. 2019, pp. 1–4. DOI: 10.1109/upcon47278.2019.8980262 isbn: 9781728134550 issn 2687-7767
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- [C2] P. R. Gautam, S. Kumar, A. Verma, T. Rashid, et al., Localization of Sensor Nodes in WSN Using Area Between a Node and Two Beacons (Lecture Notes in Electrical Engineering). Motilal Nehru National Institute of Technology, Allahabad: Springer, Dec. 2019, vol. 587, pp. 221–228, 1060 pp. DOI: 10.1007/978-981-32-9775-3_22 isbn: 9813297743 issn 1876-1100
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- [C3] P. R. Gautam, S. Kumar, and A. Kumar, "Sensor localization in wsns using rotating directional antenna at the base station," in Advances in VLSI, Communication, and Signal Processing, ser. Lecture Notes in Electrical Engineering, vol. 683, Motilal Nehru National Institute of Technology, Allahabad: Springer, Oct. 2020, pp. 705–718. DOI: 10.1007/978-981-15-6840-4_58 isbn: 978-981-15-6839-8 issn 1876-1100 Book chapter
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- [C7] A. Verma, S. Kumar, P. R. Gautam, and A. Kumar, Stable Energy-Efficient Routing Algorithm for Dynamic Heterogeneous Wireless Sensor Networks (Lecture Notes in Electrical Engineering). Motilal Nehru National Institute of Technology, Allahabad: Springer, Dec. 2019, vol. 587, pp. 221–228, 1060 pp. DOI: 10.1007/978-981-32-9775-3_15 isbn: 9813297743 issn 1876-1100 Book chapter
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