

List of Publications

Journal

8. **S. Kadam** and D. I. Kim, "IoT-Enabled Traffic Management System using Vehicle Count Prediction in a Semantic Communication Framework," *IEEE Internet of Things Journal*, vol. 12, no. 17, pp. 36258–36273, Sep. 2025. **Impact Factor (2025): 8.9**, DOI: 10.1109/JIOT.2025.3581778
7. **S. Kadam**, A. Scaglione, N. Ravi, S. Peisert, B. Lunghino, and A. Shumavon, "Optimum Noise Mechanism for Differentially Private Queries in Discrete Finite Sets", *Cybersecurity*, vol. 7, no. 1, pp. 54, Sep. 2024. **Impact Factor (2024): 3.7**, DOI: 10.1186/s42400-024-00239-3
6. **S. Kadam** and D. I. Kim, "Knowledge-Aware Semantic Communication System Design and Data Allocation," *IEEE Transactions on Vehicular Technology*, vol. 73, no. 4, pp. 5755 – 5769, Apr. 2024, **Impact Factor (2025): 7.1**, DOI: 10.1109/TVT.2023.3333350
5. **S. Kadam**, K. S. Bhargao, and G. S. Kasbekar, "Node Cardinality Estimation in a Heterogeneous Wireless Network Deployed Over a Large Region Using a Mobile Base Station," *Journal of Network and Computer Applications*, vol. 221, pp. 103779, Jan. 2024. **Impact Factor (2025): 8.0**, DOI: 10.1016/j.jnca.2023.103779
4. N. Ravi, A. Scaglione, **S. Kadam**, R. Gentz, S. Peisert, B. Lunghino, E. Levijarvi, and A. Shumavon, "Differentially Private K-means Clustering Applied to Meter Data Analysis and Synthesis", *IEEE Transactions on Smart Grid*, vol. 13, no. 6, pp. 4801–4814, Nov. 2022. **Impact Factor (2025): 9.8**, DOI: 10.1109/TSG.2022.3184252
3. **S. Kadam**, S. Vivek Y., P. H. Prasad, R. Kumar, and G. S. Kasbekar, "Rapid Node Cardinality Estimation in Heterogeneous Machine-to-Machine Networks," *IEEE Transactions on Vehicular Technology*, vol. 70, no. 2, pp. 1836–1850, Feb. 2021. **Impact Factor (2025): 7.1**, DOI: 10.1109/TVT.2021.3054594
2. **S. Kadam**, C. S. Raut, A. Meena, and G. S. Kasbekar, "Fast Node Cardinality Estimation and Cognitive MAC Protocol Design for Heterogeneous Machine-to-Machine Networks," *Wireless Networks*, vol. 26, no. 6, pp. 3929–3952, Aug. 2020. **Impact Factor (2024): 2.1**, DOI: 10.1007/s11276-020-02291-6
1. **S. Kadam**, D. Prabhu, N. Rathi, P. Chaki, and G. S. Kasbekar, "Exploiting Group Structure in MAC Protocol Design for Multichannel Ad Hoc Cognitive Radio Networks," *IEEE Transactions on Vehicular Technology*, vol. 68, no. 1, pp. 803–907, Jan. 2019. **Impact Factor (2025): 7.1**, DOI: 10.1109/TVT.2018.2883392

Conference

8. **S. Kadam** and D. I. Kim, "Semantic Communication-Empowered Vehicle Count Prediction for Traffic Management", in *Proc. IEEE WCNC*, pp. 1–6, Dubai, United Arab Emirates (UAE), Apr. 2024, DOI: 10.1109/WCNC57260.2024.10571211
7. **S. Kadam**, A. Scaglione, N. Ravi, S. Peisert, B. Lunghino, and A. Shumavon, "Optimum Noise Mechanism for Probabilistic Differentially Private Queries in Discrete Finite Sets", in *Proc. IEEE SmartNets*, pp. 1–6, Istanbul, Turkey, Jul. 2023, DOI: 10.1109/SmartNets58706.2023.10215578
6. **S. Kadam** and D. I. Kim, "Knowledge-Aware Semantic Communication System Design", in *Proc. IEEE ICC*, pp. 6102–6107, Rome, Italy, May 2023, DOI: 10.1109/ICC45041.2023.10278770
5. **S. Kadam** and G. S. Kasbekar, "Node Cardinality Estimation Using a Mobile Base Station in a Heterogeneous Wireless Network Deployed Over a Large Region," in *Proc. IEEE SPCOM*, Bengaluru, India, Jul. 2020, DOI: 10.1109/SPCOM50965.2020.9179541
4. S. Vivek Y., P. H. Prasad, R. Kumar, **S. Kadam**, and G. S. Kasbekar, "Rapid Node Cardinality Estimation in Heterogeneous Machine-to-Machine Networks," in *Proc. IEEE VTC2019-Spring*, pp. 1–7, Kuala Lumpur, Malaysia, Apr. 2019, DOI: 10.1109/VTCSpring.2019.8746489
3. **S. Kadam**, C. S. Raut, and G. S. Kasbekar, "Fast Node Cardinality Estimation and Cognitive MAC Protocol Design for Heterogeneous M2M Networks," in *Proc. IEEE GLOBECOM*, pp. 1–7, Singapore, Dec. 2017, DOI: 10.1109/GLOCOM.2017.8254618
2. **S. Kadam**, D. Prabhu, N. Rathi, P. Chaki, and G. S. Kasbekar, "Exploiting Group Structure in MAC Protocol Design for Multichannel Ad Hoc Cognitive Radio Networks," in *Proc. IEEE WCNC*, pp. 1–7, Doha, Qatar, Apr. 2016, DOI: 10.1109/WCNC.2016.7564797
1. **S. Kadam**, G. Sharma, R. K. Bansal, "Robust Dual Cumulative Sum Algorithm for Cooperative Spectrum Sensing," in *Proc. IEEE NCC*, pp. 1–5, New Delhi, India, Feb. 2013, DOI: 10.1109/NCC.2013.6487924

Reviewer

- **Journal:** IEEE Communications Surveys and Tutorials, IEEE/ACM Transactions on Networking, IEEE Transactions on Cognitive Communications and Networking, IEEE Transactions on Wireless Communications, IEEE Transactions on Intelligent Transportation Systems, IEEE Wireless Communications Letters, Telecommunication Systems (TELS).
- **Conference:** IEEE GLOBECOM, IEEE ICC, IEEE WCNC, IEEE NCC, IEEE ISCC, COMSNETS, SPCOM.