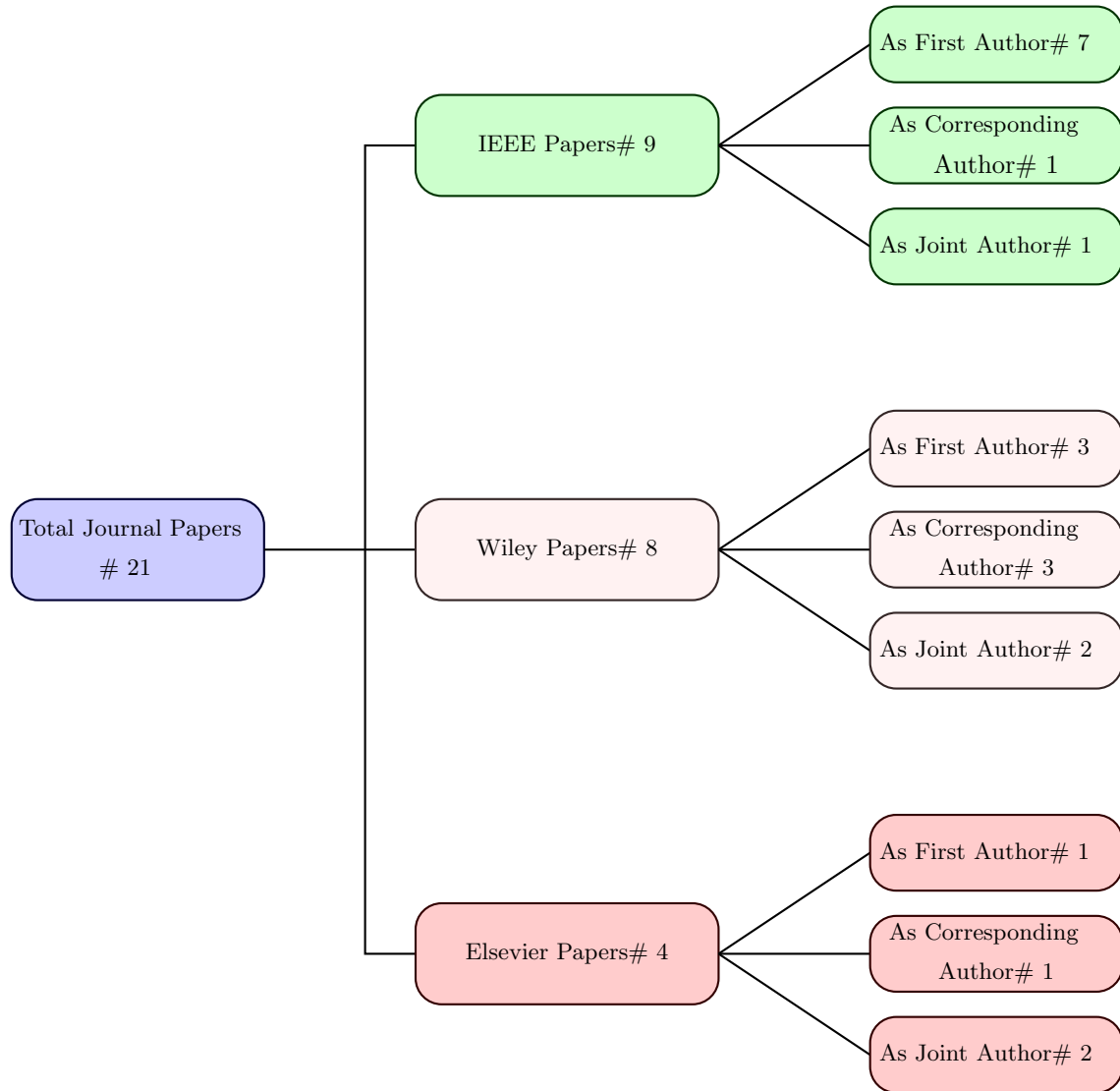


# Research Publications

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## Refereed Journal Papers: (#21)

### • Papers Published in the IEEE Journals: (#9)

1. R. Makkar, **D. Dixit**, D. Rawal, N. Sharma, and S. Sharma, "On the exact closed-form ABEP analysis of downlink NOMA over mmWave TWDP fading," *IEEE Communications Letters*, vol. 27, no. 4, pp. 1115 - 1119, Apr. 2023. Impact Factor=4.1, ISSN: 1089-7798
2. S. Sharma, K. Deka, Y. Hong and **D. Dixit**, "Intelligent reflecting surface-assisted uplink SCMA system," *IEEE Communications Letters*, vol. 25, no. 8, pp. 2728-2732, Aug. 2021. Impact Factor=4.1, ISSN: 1089-7798
3. **D. Dixit**, N. Kumar, S. Sharma, V. Bhatia, S. Panic and C. Stefanovic, "On the ASER performance of UAV-based communication systems for QAM schemes," *IEEE Communications Letters*, vol. 25, no. 6, pp. 1835-1838, Jun. 2021. Impact Factor=4.1, ISSN: 1089-7798

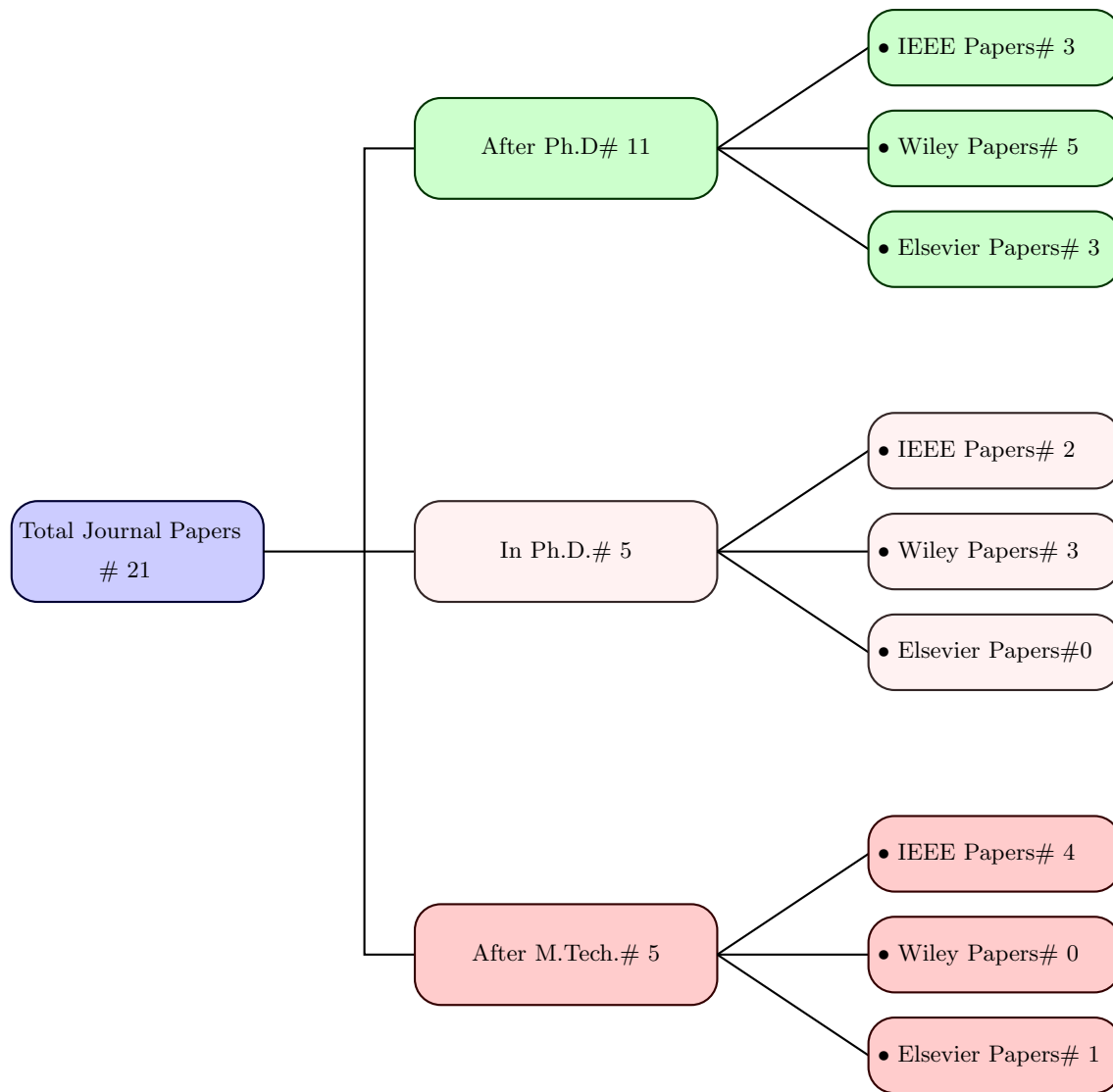
4. **D. Dixit** and P. R. Sahu, "Performance of regenerative relay assisted D2D communication in mixed fading channels," *IEEE Communications Letters*, vol. 22, no. 4, pp. 864-867, Apr. 2018. Impact Factor=4.1, ISSN: 1089-7798
5. **D. Dixit** and P. R. Sahu, "Exact closed-form ABER for multi-hop regenerative relay systems over  $\kappa$ - $\mu$  fading," *IEEE Wireless Communications Letters*, vol. 6, no. 2, pp. 246-249, Apr. 2017. Impact Factor=6.3, ISSN: 2162-2337
6. **D. Dixit** and P. R. Sahu, "Performance analysis of rectangular QAM with SC receiver over Nakagami- $m$  fading channels," *IEEE Communications Letters*, vol. 18, no. 7, pp. 1262-1265, Jul. 2014. Impact Factor=4.1, ISSN: 1089-7798
7. **D. Dixit** and P. R. Sahu, "Performance of QAM signaling over TWDP fading channels," *IEEE Transactions on Wireless Communications* vol. 12, no. 4, pp. 1794-1799, Apr. 2013. Impact Factor=10.4, ISSN: 1536-1276
8. **D. Dixit** and P. R. Sahu, "Performance of  $L$ -branch MRC receiver in  $\eta$ - $\mu$  and  $\kappa$ - $\mu$  fading channels for QAM signals," *IEEE Wireless Communications Letters*, vol. 1, no. 4, pp. 316-319, Aug. 2012. Impact Factor=6.3, ISSN: 2162-2337
9. **D. Dixit** and P. R. Sahu, "Symbol error rate of rectangular QAM with best-relay selection in cooperative systems over Rayleigh fading channels," *IEEE Communications Letters*, vol. 16, no. 4, pp. 466-469, Apr. 2012. Impact Factor=4.1, ISSN: 1089-7798

• **Papers Published in the Wiley Journals: (#8)**

1. S. K. Bhagat, **D. Dixit**, and P. R. Sahu "Average bit error probability performance of intelligent reflecting surface-aided wireless communications over Hoyt fading" *Wiley International Journal of Communication Systems (IJCS)*, Accepted in July 2023 Impact Factor=2.1, ISSN: 1099-1131.
2. R. K. Singh, N. Kumar, and **D. Dixit** "On the performance of energy harvesting-assisted Nth-best relay cooperative networks in Nakagami- $m$  Fading" *Wiley International Journal of Communication Systems (IJCS)*, vol. xx, no. x, pp. xx-xx, May 2023 Impact Factor=2.1. ISSN: 1099-1131
3. R. K. Hindustani, **D. Dixit**, and S. Sharma "Outage probability analysis of multiple intelligent reflecting surface-assisted single-input single-output system with switched diversity." *Wiley International Journal of Communication Systems (IJCS)*, vol. xx, no. x, pp. xx-xx, May 2023 Impact Factor=2.1. ISSN: 1099-1131
4. S. Sharma, K. Deka, **D. Dixit**, and A. Rajesh "Intelligent reflecting surface-assisted downlink nonorthogonal multiple access systems" *Wiley International Journal of Communication Systems (IJCS)*, vol. 35, no. 3, pp. 1-12, Feb. 2022. Impact Factor=2.1, ISSN: 1099-1131
5. S. Bhatnagar, **D. Dixit**, S. K. Gauttam, and D. Rawal "Performance of new relay selection scheme for buffer-assisted multi-hop DF networks" *Wiley International Journal of Communication Systems (IJCS)*, vol. 35, no. 1, pp. 1-13, Jan. 2022. Impact Factor=2.1, ISSN: 1099-1131
6. **D. Dixit** and P. R. Sahu "Performance of multihop detect-and-forward relaying system over fluctuating two-ray fading channels" *Wiley Transactions on Emerging Telecommunications Technologies (ETT)* vol. 29, no. 8, pp. 1-14, May 2018. Impact Factor=3.6, ISSN: 2161-3915
7. **D. Dixit** and P. R. Sahu, "Error rate and outage of dual-hop DF relay system with selection combining over Rice fading," *Wiley International Journal of Communication Systems (IJCS)*, vol. 31, no. 13, pp. 1-14, Jun. 2018. Impact Factor=2.1, ISSN: 1099-1131
8. **D. Dixit** and P. R. Sahu "Performance of dual-hop DF relaying systems with QAM schemes over mixed  $\eta$ - $\mu$  and  $\kappa$ - $\mu$  fading channels" *Wiley Transactions on Emerging Telecommunications Technologies (ETT)* vol. 28, no. 11, pp. 1-13, Apr. 2017. Impact Factor=3.6, ISSN: 2161-3915

• **Papers Published in the Elsevier Journals: (#4)**

1. R. K. Hindustani, **D. Dixit**, S. Sharma, and V. Bhatia "Outage probability of multiple-IRS-assisted SISO wireless communications over Rician fading" *Elsevier Physical Communication*, vol. 59, pp. 1-8, May 2023. Impact Factor=2.379, ISSN: 1874-4907
2. R. K. Singh, N. Kumar, and **D. Dixit** "On the ASER performance of RF energy harvesting multiple relay networks" *Elsevier Physical Communication*, vol. 54, pp. 1-8, Oct. 2022. Impact Factor=2.379, ISSN: 1874-4907
3. **D. Dixit**, N. Kumar, and A. K. Mandupra "On the ASER performance of SC receiver with RQAM and HQAM over  $\kappa$ - $\mu$  fading" *Elsevier International Journal of Electronics and Communications (AEU)* vol. 138, pp. 1-6, Aug. 2021. Impact Factor=3.169, ISSN: 1434-8411
4. N. Kumar, V. Bhatia, and **D. Dixit** "Performance analysis of QAM in amplify-and-forward cooperative communication networks over Rayleigh fading channels" *Elsevier International Journal of Electronics and Communications (AEU)* vol. 72, pp. 86-94, Feb. 2017. Impact Factor=3.169, ISSN: 1434-8411



### Conference Papers: (#4)

1. S. Sharma, **D. Dixit**, and K. Deka, "Deep learning based symbol detection for molecular communications," in *Proc. IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, IIIT Delhi 2020, pp. 1-6
2. **D. Dixit**, P. R. Sahu, and George K. Karagiannidis, "Error rate of MIMO OSTBC systems over mixed Nakagami- $m$ /Rice fading channels," in *Proc. IEEE 24th National Conference on Communications (NCC)*, IIT, Hyderabad, India, Feb. 2018, pp. 1-5.
3. **D. Dixit** and P. R. Sahu, "Outage probability of cooperative relay networks in  $\eta$ - $\mu$ ,  $\kappa$ - $\mu$ , and mixed fading channels," in *Proc. IEEE 86th Vehicular Technology Conference (VTC-Fall)*, Toronto, Canada, September 2017, pp. 1-5.
4. **D. Dixit** and P. R. Sahu, "Performance of multihop communication systems with regenerative relays in  $\eta$ - $\mu$  fading channels," in *Proc. IEEE 79th Vehicular Technology Conference (VTC-Spring)*, Seoul, South Korea, May 2014, pp. 1-5.