

## Significant Publications

1. Jacob Hopkins\*, Forrest Joy\*, Alaa Sheta, Hamza Turabieh, and Dulal Kar, "Path planning for indoor UAV using A\* and late acceptance hill climbing algorithms utilizing probabilistic roadmap," *International Journal of Engineering & Technology*, 2020, vol. 9, no. 6, pp. 57-862. <https://www.sciencepubco.com/index.php/ijet/article/view/31033>.
2. Jesse McDonald\*, Jason Pollard\*, Michael J. Starek, and Dulal Kar, "Surfzone bathymetry estimation using wave characteristics observed by unmanned aerial systems," *Proceedings of the 2020 IEEE Geoscience and Remote Sensing Symposium (IGARSS)*, October 2020.
3. Hailey Chapman\*, Henry O'Connor\*, Michael J. Starek, and Dulal Kar, "A framework for determination of ocean wave properties using unmanned aerial systems," *Proceedings of the International Conference on Scientific Computing*, July 2019, pp. 35-39.
4. Wei Chen\*, Dulal Kar, and Simon Merheb\*, "Vision based coastline detection for autonomous unmanned aerial systems," *Proceedings of the International Conference on Image Processing, Computer Vision, and Pattern Recognition (ICCV'19)*, July 2019, pp. 89-93.
5. Vincent Tran\*, Jesus Nunez\*, and Ajay Katangur, "Protecting the unmanned aerial vehicle from cyberattacks," *Proceedings of the International Conference on Security and Management (SAM'19)*, July 2019.
6. Adnan Yunus\*, Garrett Shake\*, and Dulal Kar, "Tracking of shorelines using unmanned aerial systems," *Int'l Conf. on Image Process., Comp. Vision, and Pattern Recognition (ICCV'21)*, July 2021.
7. Dulal Kar, Longzhuang Li, and Ahmed Mahdy. "Research experience for undergraduates in applied computing with regional research themes," *The 17th Int'l Conf. on Frontiers in Education in Computer Science and Computer Engineering (FECS'21)*, July 2021.
8. Joseph Brewington\* and Dulal Kar, "UAV GPS Spoofing Detection via Neural Generative One-Class Classification," *Proceedings of ACM MobiHOC '23 Conference*, Washington, DC, October 23–26, 2023, pp. 492-497.
9. Jaron Burns\*, Dimitri Amiridis\*, Dulal Kar, and Longzhuang Li, "On Effectiveness of Machine Learning and Deep Learning Algorithms for Detection of GPS Spoofing Attacks on Unmanned Aerial Vehicles," *Proceedings of the 22nd International Conference on Security and Management (SAM'23)*, July 2023.
10. Matthew Ybarra\*, Mahmoud Eldefrawy, and Scott King, "UGVs in Agriculture: Steering control system to navigate through fields via waypoints," *Proceedings of ACM MobiHoc'23 Conference*, Washington DC, October 2023, pp. 551-555.
11. Golan Khen\*, Detim Zhao\*, and Jose Baca, "Intuitive Human-Swarm Interaction with Gesture Recognition and Machine Learning," *Proceedings of ACM MobiHoc '23 Conference*, Washington, D.C., October 2023, pp. 453–456.
12. Abdullah Kamal\*, Jeremy Vidaurri\*, and Carlos Rubio-Medrano, "No-Fly-Zone: Regulating Drone Fly-Overs Via Government and User-Controlled Authorization Zones," *Proceedings of ACM MobiHoc '23 Conference*, Washington, D.C., October 2023, pp. 522-527.