

Name of the Faculty: Sk Babul Akhtar

Designation: Assistant Professor

Department: Electronics and Communication Engineering

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Journal Publication:

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Book Chapter Publication:

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	Optimizing Object Tracking Precision through Extended Kalman Filter Dynamics: A Comprehensive Investigation and Performance Evaluation	Sk Babul Akhtar	978-93-5834-625-1	2024
	Modelling Error Factors in GNSS Observations for Precise Point Positioning and Accurate Position Estimation of Low Earth Orbit Satellites	Sk Babul Akhtar	978-93-5834-625-1	2024
	Enhanced Performance in Multiple Object Tracking: Kalman Filter Integration with Hungarian Algorithm and RMS Index Optimization	Sk Babul Akhtar	978-93-5834-625-1	2024
	Development of an Arduino-Based Smart Home Security System with Multi-Sensor Integration	Sk Babul Akhtar	978-93-6233-525-8	2024
	Enhanced Measurement	Sk Babul Akhtar	978-93-6233-525-8	2024

	Models for LEO Satellites: Addressing Bias, Elevation Errors and Carrier Ambiguity			
	Improving Tracking Accuracy: Fixed Interval Smoothing Applied to Kalman Filter Estimates	Sk Babul Akhtar	978-93-6233-525-8	2024
	Kalman filter based multiple object tracking using Hungarian algorithm and performance tuning using RMS index	Sk Babul Akhtar	978-10-3298-036-2	2024
	A Comprehensive Approach to Accurate Object Tracking in one and two dimensions using Kalman Filter	Sk Babul Akhtar	978-93-6039-440-0	2023
	Advancements and Applications of IoT-Based Smart Traffic Control Systems: A Comprehensive Review	Sk Babul Akhtar	978-93-6233-525-8	2024
	ECIS-Based Cell Growth Monitoring: A Comprehensive Review	Sk Babul Akhtar	978-93-6233-525-8	2024
	Lung Condition Prediction using Machine Learning after COVID-19: A Review	Sk Babul Akhtar	978-93-6233-525-8	2024
	Non-Invasive Glucose Monitoring: A Comprehensive Review	Sk Babul Akhtar	978-93-6233-525-8	2024
	Prediction of Kidney Disease using Machine Learning Algorithms: A Systematic Review	Sk Babul Akhtar	978-93-6233-525-8	2024

Other Publication Details (if any):

1. Sk Babul Akhtar, Tomal Suvro Sannyashi, Tanmay Sinha Ray, Shreya Adhikary, Debasis Mondal, "A Comprehensive Review of Hatch Filters: From Conventional Designs to Adaptive and Machine Learning-Enhanced Variants", 1st International Conference on Sustainable Research and Development, 2024

2. Sk Babul Akhtar, Tomal Suvro Sannyashi, Tanmay Sinha Ray, Shreya Adhikary, Debasis Mondal, "Comparative Analysis of NOT Gate Performance Using GPDK45 and GPDK180 Technologies: A Virtuoso-Based Study", 1st International Conference on Sustainable Research and Development, 2024
3. Sk Babul Akhtar, Tomal Suvro Sannyashi, Tanmay Sinha Ray, Shreya Adhikary, Debasis Mondal, "Ensuring Design Integrity: A Comprehensive DRC, LVS, and Quantus Analysis of a NOT Gate in GPDK180 Technology", 1st International Conference on Sustainable Research and Development, 2024
4. Sk Babul Akhtar, Tomal Suvro Sannyashi, Tanmay Sinha Ray, Shreya Adhikary, Debasis Mondal, "Evolution of Object Detection and Tracking: From Early Algorithms to Modern Deep Learning Approaches", 1st International Conference on Sustainable Research and Development, 2024
5. Sk Babul Akhtar, Tomal Suvro Sannyashi, Tanmay Sinha Ray, Shreya Adhikary, Debasis Mondal, "Techniques for High-Resolution GPS Satellite Position and Velocity Estimation from Broadcast Ephemeris Data", 1st International Conference on Sustainable Research and Development, 2024