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Department of Industrial Management, NTUST

Research Projects

(Please provide years and source of funding)

University-Industry Collaboration:

1. Optimal Routing and Scheduling of Regional Trucks
2. Decision Analysis of the Division of Electricity Testing Services, Forecasting and Decision Analysis of Electricity Technology,
3. Intelligent Demand Responsive Transit Service (IDEA)
4. Optimizing the 2-Echelon Distribution Network for Mobile Devices
5. Smart Logistics, Simulation of AGV System
6. Optimizing Freight Flow to Enhance Operational Efficiency of Hub-and-spoke Transportation Network

General Research:

1. Innovative Logistics Applications of Electric Vehicles: Optimization Models and Algorithms
2. Optimization Models and Algorithm for Integrated Last-Mile Delivery Systems with Public Transportation
3. Radius and Packing Optimization of the Discretization Process on Stainless Steels Corrosion Analysis
4. Optimization Models for the Maintenance of Offshore Wind Systems Under Uncertainty
5. Models and Solution Approaches for the Multi-criteria Outpatient Nurse Scheduling Problem
6. Optimization Models and Decision Support System for Sustainable City Logistics

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7. Vehicle Routing Problem with Cross-docking: Integrated Forward and Reverse Flows and Uncertainty
8. Optimization Models for City Logistics with Electric Vehicles (MAGIC)
9. Optimization Models in City Logistics
10. Optimization Models for Tourist Trip Planning, Optimization Models for Green Logistics
11. Optimal Supply Chain Design Under Logistic Outsourcing, Vehicle Routing Problem with Refueling
12. Solving the Truck and Trailer Routing Problem and Its Extensions by Simulated Annealing Heuristic
13. Optimizing Airport Gate Assignment - A Case Study of the Kaohsiung International Airport
14. Application of Integer Programming to the University Timetabling Problem