

FLORIDA STATE UNIVERSITY  
FAMU-FSU COLLEGE OF ENGINEERING

INTEGRATED OPTIMIZATION MODELS FOR AUTOMOBILE SHIPPING

By  
SAJEEB KUMAR KIRTONIA

A Dissertation submitted to the  
Department of Industrial and Manufacturing Engineering  
in partial fulfillment of the  
requirements for the degree of  
Doctor of Philosophy

2023

Sajeeb Kumar Kirtonia defended this dissertation on November 17, 2023.

The members of the supervisory committee were:

Yanshuo Sun  
Professor Directing Dissertation

Eren Erman Ozguven  
University Representative

Samuel A Awoniyi  
Committee Member

Omer Arda Vanli  
Committee Member

Lichun Li  
Committee Member

The Graduate School has verified and approved the above-named committee members, and certifies that the dissertation has been approved in accordance with university requirements.