



Pole for Doctoral Studies
Center for Doctoral Studies
Sciences, Technologies, and Medical Sciences

ANNOUNCEMENT OF DOCTORAL THESIS DEFENSE



M. KAYOUH Nabil

**Will present here research work with the aim of earning a
Doctorate**

**Doctoral program: Mathematical Sciences, Physics and New
Technologies (SMPNT)**

Discipline: Applied Mathematics

Specialty: Logistics and Operations Research

**On 19/07/2025 at 10H 00 at the meeting room of the National
School of Applied Sciences of Tétouan, UAE
Under the Theme**

**A model for supply chain risk management: identification,
assessment, and strategies for risk mitigation, application in the
automotive supply chain**

Front of the jury composed of :

First Name & Last Name	Establishment	Designation
Pr. REGHIOUI Mohamed	ENCG of Tangier, UAE	President
Pr. EL BOUZEKRI EL IDRISSE Adiba	ENSA of El Jadida, UCD	Reviewer
Pr. LAJJAM Azza	ENSA of Tetouan, UAE	Reviewer
Pr. SARIR Hicham	ENSA of Tetouan, UAE	Reviewer
Pr. EL FALLAHI Abdellah	ENSA of Tetouan, UAE	Examiner
Pr. ARIF Jabir	EST of Fes, USMBA	Examiner
Pr. DKHISSI Btissam	ENSA of Tetouan, UAE	Supervisor

Research Laboratory: Mathematics Computer Science and Decision-Making MaCS-DM

Abstract

Supply chain risk management has become a central theme in contemporary supply chain management theory and practice. This prominence is attributed to various trends, such as the increased globalization of markets, which has led to the creation of more complex supply networks and a transition toward more streamlined and efficient supply chain operations. While these trends have undeniably brought significant advantages in terms of productivity and profitability, they have simultaneously increased the vulnerability of many organizations to disruptions.

The goal of this thesis is to address this issue by developing a coherent approach to identify, assess, and mitigate risk factors in supply chains using a multi-criteria decision-making and multi-objective optimization approach. The proposed models are tested using case studies from an automotive industry company.

Keywords: *Supply chain risk management, Risk factors, Strategies and risk responses, multi-criteria decision-making, automotive industry.*

