The professional profile of PhD-holders

Diana PEÑA

Industrial Engineer | Optimization and Reliability PhD Student

I'm a second year PhD student in Optimisation and Reliability a in France in double degree within Logistics and Supply Chain Management in Colombia.

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Core business

PHASE 3 **Skill development**

> As a professor of Supply Chain and Operations Planning courses in the Industrial Engineering programme at the Universidad Icesi in Colombia and 8 years of experience in the industry and 7 years of experience in education. I identified the new trends in my sector, and for that reason I´m doing my Phd studies.

PHASE 2 **Evaluation**

> Recyclable waste collection routing for the informal sector (Presentation Conference and full paper). International Conference on Connected Innovation and Technology X.0 (ICCITX.0) and The Smart Healthcare International Conference (SHeIC 2024). April 22nd-24th, 2024, in three sites: Rabat, Morocco - Marseille, France - Da Nang, Vietnam. Poster presentation. Recyclable waste collection routing for informal sector. What´s up Doc, April 30th, 2024.

PHASE 3 **Information management**

> Search engine management of Science Direct, Ebsco, Scopus, etc. Comparative analysis of different bibliographic references with respect to the waste collection routing problem. Use of the Mendeley tool for document and citation management. Recognition of AI-based applications to support document management. Instances data construction for experimental tests.

PHASE 2 **Expertise and methods**

> Exact methods optimization and solution methods as heuristic (Nearest Neighbor, 3-opt move), metaheuristic (Ant Colony Optimization). Programmation in CPLEX, Gurobi and Python)

Personal and relational qualities

PHASE 2 **Communication**

> Active participation in doctoral school´s activity as the Poster presentation. Recyclable waste collection routing for informal sector. What´s up Doc, April 30th, 2024 and the scientifiques seminars. Supply chain and Operations planning class in Universidad Icesi

PHASE 2 **Collaboration**

> 8 years of experience in industry and 7 years of experience in education allows for collaboration with different people from organisations, students and colleagues.