

# Curriculum Vitae

**Mostafa Mohammadi**

## 1. Education

### **Phd Student in Infrastructures And Transport**

**Oct 2021-Present**

Sapienza University of Rome, Rome, Italy QS Rank:171

Resercher in Traffic engineering and ITS group

**Advisor:** Prof. Gaetano Fusco and Chiara Colombaroni

### **M.Sc. in Transportation System Engineering**

**Sep 2019 - July 2021**

Sapienza University of Rome, Rome, Italy QS Rank:171

(GPA: 110 with honor/110)

Course Language: English

**Thesis:** A set of heuristic for solving Vehicle Routing Problem in IoT-based Waste Management System in the Smart City.

**Advisor:** Prof. Chiara Colombaroni

**Co-advisor:** Prof. Gaetano Fusco

**Co-advisor:** Prof. Mostafa Hajiaghahi-Keshteli, Tecnologico de Monterrey, Puebla, Mexico

### **ERASMUS + Program**

University of Zilina, Zilina, Slovakia

**Sep 2020 - Feb 2021**

GPA: **A**, Excellent and outstanding performance

Course Language: English

Scholarship: Erasmus + scholarship, MIUR and EU scholarship

### **Master of Science, Industrial Engineering**

**Sep 2012-Aug 2014**

Mazandaran University of Science and Technology, Babol, Iran

GPA:16.16 out of 20.

Master's thesis: " Makespan minimizing on multiple travel salesman problems"

**Advisor:** Prof. Javad Rezaeian

### **B.Sc. in Industrial Engineering, GPA: 16.56/20**

**Sep 2008- Aug 2012**

Shomal University, Mazandaran, Iran.

Ranked 3rd in GPA all students in Industrial Engineering,2008

---

## 2. Research Interest

---

- Sustainable Logistics and Supply Chain Management
- Smart City
- City Logistic
- Traffic engineering and ITS
- Operations Research
- Multi-objective optimization
- Heuristic and Meta Heuristic Algorithms
- Mathematical Modeling
- Transportation modelling

---

## 3. Honors and Awards

---

- Scholarship for Erasmus Internship at Jyväskylä University of Finland for 6 months.
- Scholarship for Erasmus study at Zilina University for 6 months, Sep 2020.
- **Ranked 1<sup>st</sup>** among 250 participants in Erasmus competition in faculty of civil and industrial engineering of Sapienza University, Dec 2020.
- **Ranked 1<sup>st</sup>** among 50 participants in Study Erasmus competition in Transport system engineering.
- 5200 € Lazio Disco scholarships for qualified and talented students, Sep 2020 and Sep 2019.
- **The highest GPA (Top 10%)** undergraduate student award and Talent student.

---

## 4. Publication and Scientific Work

---

- Makespan minimizing on multiple travel salesman problems with a learning effect of visiting time, WSEAS TRANSACTIONS on SYSTEMS and CONTROL Journal.
- Two-objective allocation problem optimization for ATM with NSGA-II algorithm case study: Bank ", 5th international conference on Science and engineering on 13th December 2016 Paris-France
- IranKhodro representative performance evaluation techniques using data envelopment analysis (DEA), publication description International conference on management and humanities in Dubai, United Arab Emirates, Dec 2015

---

## 5. Research Project

---

- Developing GA code for optimizing the reshuffling movement of container handling operation with Prof. Gaetano Fusco, Prof. Chiara Colombaroni, Golman Rahmanifar, Dario Molaniri
- working on a research review of the Electric Vehicle Routing Problem for finding the research gap with Prof. Gaetano Fusco, Prof. Chiara Colombaroni, Golman Rahmanifar, Filippo Caresse
- Makespan minimizing on multiple travel salesman problem with a learning effect of visiting time with Prof. Chiara Colombaroni, Golman Rahmanifar
- Multi-objective allocation problem optimization for ATM by NSGA-II algorithm

---

## 6. Licenses and Certifications & Workshops

---

- Logistics and supply chain management (Master class Gold)
- Learn Python by Doing the Complete Python Course
- Machine Learning, Data Science and Deep Learning with Python
- Non-Linear Multi objective Optimization-20 hours-Jyväskylä University of Finland
- ISO 9001:2008 Consultation training course (including ISO 9001:2008 Requirement, documentation and internal audit), Germanischer Lloyd, 40 hours

---

## 7. Job Experience

---

- **Multi-Objective Optimization internship** Mar 2021 – present  
University of Jyväskylä, Finland  
I am responsible for the implementing indicator-based evolutionary algorithm (IBEA), Preference-Based Evolutionary Algorithm (PBEA) and distance-based problems at the Multi-objective optimization group of the University of Jyväskylä, Finland, which is headed by Prof. Kaisa Miettinen.

- **Supply chain planning Supervisor** Dec 2017 - Aug 2019  
Aras Taban –Fish food manufacturing company, Iran
- **Production and operations control department Supervisor** May 2013 – Dec 2017  
Beryan Goosht, Iran- Food manufacturing company
- **Sales and marketing planner** Apr 2012 - Mar 2013  
Solico Group- Food company, Iran
- 

---

## 8. Other Professional Skills

- **Programming:** C#, GAMS, MATLAB, Lingo, Python, Access, Comfar, Catia, Expert choice, Accounting Software
- Scientific: MSP, SAS, Excel (including macros), Visio, ED (simulation), Win QSB, MATLAB (fuzzy), Photoshop
- **Language**
- English (IELTS: 6.5, Listening: 7 Reading: 6.5 Speaking: 6.5 Writing: 5.5)
- Farsi (Native)
- Italian (Basic)

## 8. Reference

### Gaetano Fusco, Ph.D

Thesis supervisor

Email: [gaetano.fusco@uniroma1.it](mailto:gaetano.fusco@uniroma1.it)

Sapienza Università di Roma - La

SapienzaCivili and industrial engineering

DepartmentPhone: (+39) 3453914214

### Chiara Colombaroni, Ph.D

Thesis Advisor

Email: [chiara.colombaroni@uniroma1.it](mailto:chiara.colombaroni@uniroma1.it)

Sapienza Università di Roma - La

SapienzaCivili and industrial engineering

DepartmentPhone: (+39) 3491560498

---