Claudio Castiglione

Politecnico di Torino

Department of Management and Production Engineering

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Education

November 2017 - *present*

Ph.D., Management, Production and Design, Politecnico di Torino (Italy)

Main subjects: Eco-Industrial Park design; Production planning and control of biochemical processes; Industrial Symbiosis; Processes simulation; Optimization.
Dissertation supervisors: Professor Arianna Alfieri; Professor Franco Lombardi

March 2014 – 2016 March

M.E., Management Engineering, Politecnico di Torino (Italy)

Main subjects: Production Planning and Control; Discrete Event Simulation; Arena Software; Supply Chain Management;
Thesis: *Max Flow Approach to Buffer Allocation Problem*
Thesis supervisor: Professor Arianna Alfieri

October 2010 – 2014 February

B.E, Management Engineering, Politecnico di Torino (Italy)

Main subjects: Statistics; Production Planning and Control; Manufacturing processes; Java; R Software; Business Analysis;
Thesis: *Global Optimization. Discrete Particle Swarm Optimization and Standard Particle Swarm Optimization in a scheduling problem*
Thesis supervisor: Professor Paolo Brandimarte

Teaching experience

November 2017 - *present*

Teaching Assistant, Politecnico di Torino (Italy) – Department of Management and Production Engineering

B.E. Course: Production Planning and Management (around 160 students)

Research experience

January 2019 - present — **Reviewer,** for International Journal of Production Research,

November 2017 - present — **Ph.D. Researcher,** Politecnico di Torino (Italy) – Department of Management and Production Engineering

Network design of Eco-Industrial Park, economically viable, in order to create value reducing waste and by-products.

May 2016 – *October 2017* — **Research Fellow,** Politecnico di Torino (Italy) – Department of Management and Production Engineering

Subject of the research is the product portfolio selection problem in assembly industry where large number of final products are available in order to allow mass customization. Development of algorithms to solve multi-objective problems of component capacity saturation, considering final product profit for firm and final product attractiveness for customers. Research was applied in an automotive case study.

Publication

Under review papers:

Castiglione, C., Alfieri, A., & Pastore, E. A multi-objective tabu search algorithm for product portfolio selection: a case study in the automotive industry. Under review for *Computers and Industrial Engineering*

Conference papers:

Castiglione, C., Alfieri, A., & Pastore, E. (2018). Decision Support System to balance inventory in customer-driven demand. *IFAC-PapersOnLine*, *51*(11), 1499-1504.

Castiglione, C., Alfieri, A. (2019). Supply chain and eco-industrial park concurrent design. *9th IFAC Conference MIM, Berlin 28-30 August 2019*.printing.

Working papers:

Castiglione, C., Alfieri, A. Design of biomass-to-energy supply chain, considering effects of economy of scale on triple bottom line, *working paper*.

Languages

Italian	Mother Tongue
English	Advanced Level C1
French	Elementary Level A2