

# Michele Urbani

University of Trento (Italy) - LUT University (Finland)

**Topic:** Maintenance Policy Optimization in the Industry 4.0 Paradigm

**Advisors:**

- ▶ **Matteo Brunelli**, University of Trento (Italy),  
Dep. of Industrial Engineering
- ▶ **Mikael Collan**, LUT University (Finland),  
School of Business and Management

**Expected contribution:**

1. Optimization problems for the maintenance of industrial plants
2. Models for predictive maintenance
3. A real-world case

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**Manuscript:** *"A comparison of maintenance policies for multi-component systems through discrete event simulation of faults"*

**Future Plans:** ► Analysis of **maintenance policies** in the **mining industry**, in collaboration with Jyrki Savolainen, Ph.D. (LUT University)