Electrolux

Global Connectivity & Technology Center

Proposal for a Bachelor or Master degree thesis work

Monitoring of washing processes

Objective

Aim of the proposed thesis work is to characterize washing pump cavitation phenomena which can occur along a washing process. Cavitation causes unpleasant noise and can affect performances. The study will be conducted by considering data from the washing pump itself and from additional sensors. The candidate will work in close cooperation with the robotics and artificial intelligence team and will be able to use a setup based on python to acquire and visualize data from the washing machine and from sensors.

Main activities

- Literature/patent search
- Carry out measurements of statistical relevance with the existing setup (an internal design of experiments tool is available for tuning/development of a tests'plan);
- Data processing and analysis
- Map of process conditions causing cavitation

Basic knowledge required

Digital signal processing, good level of English

Venue

Electrolux Italia S.p.A.
Global Connectivity & Technology
Corso Lino Zanussi 24
33080 Porcia (PN), Italy
https://goo.gl/maps/czpYfzHy94n

Deadline and bursary

Applications deadline is June 29, 2018

A bursary to cover T&S expenses can be granted upon request.

For further information please contact prof. Sergio Carrato