Internship profile- Computer vision systems for household appliances

In Global Connectivity and Technology team in Porcia/Italy your research tasks will be integrated with running projects aimed at developing and validating solutions in the field of computer vision. The aim is to exploit machine learning and deep learning techniques to develop new functionality in household appliances.

Here the contest where you will develop your research task (one research topic benefitting of both academic support and industrial one):

Within the collaboration between University and Electrolux, the student will carry over the research tasks in Electrolux facility (GC&T Porcia (Pn)), under the responsibility of an academic scientific reference and an Electrolux tutor.

Research Topic:
Computer vision systems for household appliances.

Master thesis/Internship topic aims to work on specific projects with appliances equipped with a vision system:

- Image processing and vision system set up for image correction and lighting condition compensation

Required Skills

- Master's degree (M.Sc.) in Electronic engineer, Computer science or similar field of study (study path not completely performed)
- Experience with programming in Python (+ PyData stack), C++ (incl. OpenCV);
- Good knowledge machine learning, deep learning techniques and frameworks (scikit-learn, TensorFlow, etc) is considered a strong plus;
- Fundamental knowledge of signal processing, image processing, statistics areas;
- Experience in application development (desktop, mobile).
- Good in English, written and spoken.

Soft Skills

- Team player. In this role cross-functional collaboration is everything, so you should be comfortable in dealing with academic environment and industrial one.
- Proactive. You are keen for new experience. You are self-driven, results-oriented with a positive outlook;
- Creative. You love to explore new ways of thinking and you are oriented towards innovation and scientific excellence
- Analytical yet practical. You enjoy using your sharp analytical and critical thinking, yet you also like mixing it with your hands-on concrete approach

COMPANY DESCRIPTION
Electrolux is a global leader in home appliances and appliances for professional use, based on deep consumer insight. We offer thoughtfully designed, innovative and
sustainable solutions, developed in close collaboration with professional users. The products include refrigerators, ovens, cookers, hobs, dishwashers, washing machines, vacuum cleaners, air conditioners and small domestic appliances. Under esteemed brands including Electrolux, AEG, Zanussi, Frigidaire and Electrolux Grand Cuisine, the Group sells more than 60 million products to customers in more than 150 markets every year. In 2015 Electrolux had sales of $14.7 billion ($5.1 billion in North America) and 58,000 employees.

Electrolux has been doing business since 1919. The headquarters are located in Stockholm, Sweden, and the Electrolux share ELUXb is listed on Nasdaq OMX Stockholm.

INFO

If you are interested in this internship please refer to Prof. Stefano Ghidoni (stefano.ghidoni@unipd.it).