

Open Position

Search engine for compressed camera fingerprints



- **1-year research contract** (assegno di ricerca) available at the Dept. of Electronics and Telecommunications

- **Topic:** a **prototype large-scale camera search engine** that, given one or more photos acquired by a specific camera, returns a list of webpages containing pictures acquired by the same device. The system will be commercialized by a **start-up** company to be launched in the first half of 2016.
- **Required profile:** full-stack developer involved in the following activities
 1. **Backend development:** functions to extract and compress camera fingerprints, high-throughput matching against a distributed database with MapReduce-like computational paradigms. Familiarity with distributed DBs such as Aerospike or Apache Cassandra is a plus.
 2. **Frontend development:** a minimum working website allowing a user to register his camera and interface with the search backend.
 3. A minimum working **Android app** to implement a two-step authenticator based on compressed fingerprints.
- **Start foreseen:** December 2015/January 2016.
- **More info and applications:**
 - contact Prof. Enrico Magli (enrico.magli@polito.it)
 - visit www.crisp-erc.eu/open-positions

