Opening of a Postdoc position in Machine Learning and Robotics
@Imagine Team of LIRIS lab, Ecole Centrale de Lyon

A 3-year post-doctoral position will be opened on machine learning and robotics within the Imagine team, LIRIS lab at Ecole Centrale de Lyon.

Background
The Imagine team at LIRIS has been working on face biometrics and image/video analysis, segmentation and recognition with longstanding track records. They were awarded the first performance at the SHREC 2011 contest for 3D face recognition and retrieval. In 2012, they took part to the ImageCLEF 2012 photo annotation challenge and won the golden medal in terms of three different performance metrics over 80 submissions from 18 groups coming from 11 different countries. Within this context, the Imagine team is willing to go beyond and develop new frontiers within these fields. They are extending their computer vision expertise to robotic applications, e.g., grasping, within automobile industry.

Profile
We are seeking a highly motivated postdoctoral fellow in the field of machine learning and robotics. Curiosity, open-mind, creativity, persistence, and collaborative-work ability are the key personal skills we target. A Ph.D. in applied mathematics, computer science or robotics is required, with demonstrated experience and a high quality publication record on one or several of the following topics:

- Learning by imitation, learning by observation, deep reinforcement learning
- Self-supervised continuous visual grasping, visual servoing
- Incremental learning, online learning, active learning
- Continuous training for robots, evolutionary robotics

The successful candidate should have advanced programming skills (Python, C/C++, Matlab) with experience. A solid background in mathematics is required (with optional knowledge in computer vision). While fluency in French is not required, fluency in English is mandatory. Both beginning and more senior postdoctoral candidates are encouraged to apply.

Environment
The successful candidate will work in direct collaboration with researchers having an established expertise in image/video classification and object recognition in partnership with a major industrial company in robotics and a world leading car maker. Ecole Centrale de Lyon is part of the top ten engineering schools in France (Grande Ecoles), part of the elite of "Grandes Écoles" offering access to excellent quality graduate and under-graduate students.
The LIRIS lab is a large CNRS supported laboratory federating research groups in computer science from 4 universities in Lyon, namely Université Claude Bernard, Université Lumières, INSA de Lyon and Ecole Centrale de Lyon. It offers a unique environment where innovative, multidisciplinary, foundational and applied research is conducted on topics ranging from management of data, knowledge and services, to image processing and analysis, modeling, simulation and rendering.

The Postdoc position offers full health, unemployment and retirement benefits and competitive salary. The candidate will be given the opportunity to develop his/her research skills and experience, to contribute if desired to the acquisition of new funding and to the development of cutting edge machine learning techniques with application to robotics, with possible teaching opportunities as well as student mentoring.

**Application**
Applications should include a curriculum vita, brief statements of research interests, a link to the Ph.D. thesis, and the names of at least three references. Candidates are requested to ask references to send their letters directly by email.

Applications and letters should be sent via electronic mail to:

- Pr. Liming Chen ([liming.chen@ec-lyon.fr](mailto:liming.chen@ec-lyon.fr))

The deadline for the application submission is set to **September 1st, 2016** for a preferred start date in October 1st, 2016.