The Pattern Recognition and Applications Laboratory has 18 years experience; it was founded in 1996 with the mission of addressing fundamental issues for the development of future pattern recognition systems, in the context of real applications.

Pattern Recognition is the scientific discipline dealing with theories and methodologies for designing machines capable of automatically recognizing "objects" in noisy environments. Some typical applications are multimedia document classification, remote-sensing image classification, people identification using biometrics traits as fingerprints.

PRA Lab works on the development of next generation pattern recognition systems for real applications such as biometric authentication, computer security, video surveillance, multimedia document categorization and retrieval.

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Pattern Recognition and Applications Lab

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Person re-identification consists of recognizing an individual who was previously observed over a camera network, using soft cues like the clothing appearance. It can provide useful tools for video-surveillance (for example on-line tracking of individuals over different cameras; off-line retrieval of the video sequences containing a person of interest).

PRA Lab developed a re-identification system using a network of Microsoft Kinect RGB-D cameras. The system is able to re-identify people in real-time, combining soft cues extracted from both the RGB and the Depth domains.

The results of PRA Lab research on biometrics are published in top level conferences (e.g. IJCB, BTAS, ICB) and Journals (e.g. IET Biometrics, IEEE Transactions on Informations Forensics and Security).

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