Biometric Systems
The course

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SAPIENZA
UNIVERSITÀ DI ROMA

Dipartimento di
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Lesson schedule

- WHERE: see updated course page
- WHEN: see updated course page

Contacts

- EMAIL: demarsico@di.uniroma1.it
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- OFFICE: Via Salaria 113, 3-rd floor, Room 313

- MEETING TIME: see updated course page or by appointment (by email)

Topics

- The term ***biometrics*** is derived from the Greek words *bios* (life) and *métron* (measure).
- ***Biometrics*** refers to the study and use of methods for detect and measure the characteristics of living organisms and draw comparatively classifications and laws.
- Finds applications in biology, medicine, genetics, in the agricultural and forestry sciences, environmental science and other related fields.
- The modern meaning of the term biometrics used in Computer Science, and consequently of the term biometric system, explicitly mainly refers to the automatic ***identification*** or ***verification of*** the identity of a person based on ***physical*** or ***behavioral*** characteristics.

• The course provides basic knowledge and skills necessary for the design and development of automated systems for the recognition of people on the based biometric features.

Exam

- Some exercises during the course
- Project: design and implementation of a biometric module using MATLAB or OpenCV, in group (strongly suggested) or individual
- Presentation to the classroom, written essay and demo, questions
- Language: Italian or English

Reference stuff

- Course slides from the course page
- A.K. Jain, P. Flynn, A.A. Ross, *Handbook of Biometrics*, Springer, 2008.
- H. Wechsler, *Reliable Face Recognition Methods: System Design, Implementation and Evaluation*, Springer, 2007.
- A.Ross, K. Nandakumar; A.K. Jain. *Handbook of Multibiometrics.* Springer, 2006