"Human-like humanoids: novel actuators, compliance and optimal control",
by Dr. Serena Ivaldi, Dr. Francesco Nori, Dr. Alberto Parmiggiani. 11:00~12:30

In the last years cognitive science, control theory and humanoid robotics converged to different frameworks which aim at i) modeling and analyzing human motion, and ii) enhancing motor abilities of humanoids. This talk will give an overview about the production of movements in both humans and humanoids, with emphasis on optimal motor control, compliant interaction and adaptation to the environment. The design of novel actuation systems which support the practical realization of these skills in humanoid robots will be also discussed, as well as the integration of force and tactile sensing.

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