

Title of the doctoral program

Computer and Control Engineering

Title of the research activity

Machine Learning and Computer Aided Design

Short description of the research activity

The CAD Group exploits innovative technologies for solving traditional computer-aided design problems since mid 1990s. The doctoral program focus on the newest machine-learning methodologies for the test and validation of digital circuits and systems described at various levels of abstraction, but the research will also tackle brand new areas, such as the rejuvenation of nanoscale logic. The activity will be performed in strict contact with partner industries.

Scientific responsible (name, surname, role, email)Giovanni Squillero, Assistant professor, giovanni.squillero@polito.it**Number of vacancies for XXXI cycle (3 years program)**

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Specific requirements (experiences, skills)

Good programming skill in C or C++

Experience with some hardware description language, such as VHDL, Verilog, or SystemC

Basic knowledge of test and validation of electronic circuits

Website of the research group (if any)<http://www.cad.polito.it/>