ARTIFICIAL INTELLIGENCE

MUR DM 118 - AI for mobile application UI automatic testing and enhancement

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Context of the research activity	Artificial intelligence for mobile applications. Progetto finanziato nell'ambito del PNRR – DM 118/2023 - CUP E14D23001820006

Objectives	In the context of Industry 4.0, particular attention must be paid to designing usable and effective user interfaces to support inexperienced users. Testing the UI is difficult to automate as it requires interaction with users. In this research, we want to exploit AI to learn behavioral models of real users who interact with UI on mobile devices such as smartphones and tablets. The goal is to generate software agents capable of simulating the behavior of a human being to be used for automatic testing and improvement of UI in the mobile environment.

Skills and competencies for the development of the activity	The candidate must have excellent Programming skills and a good knowledge of Machine Learning techniques. Experience in developing native and hybrid applications for mobile devices and basic knowledge of UI/UX is also required.