

Speaker: *Laura M. Nunes*

Presentation title: Computer space characteristics registration tool - physical spaces as possible crime enhancers

Co-authors: *Vanessa Azevedo* and *Ana Sani* (University Fernando Pessoa, Portugal)

* This work was financed by national funds through FCT (Foundation for Science and Technology) under the LookCrim project - Crime under analysis: Communities and physical spaces [PTDC / DIR-DCP / 28120/2017].

Crime Prevention through Environmental Design (CPTED) is a guide with principals and criteria for programs based in analysis and manipulation of physical spaces, in order to reduce or eliminate spatial characteristics that enhance crime and, if possible, make spaces that reduces crime opportunities. The strategies are based on the idea that the spaces can affect people behavior, specifically, the criminal conducts, that can occurred under the influence of built, space, social and administrative environment.

So, in this propose We want to present an innovative technological tool – an informatic application - based on CPTED's principles and on the characteristics of physical spaces that that have been identified as enhancing criminal conduct and generating opportunities for crime. The paper will describe the LookCrim application as a mobile app tool and their functional overview. Additionally, this article addresses some associated opportunities and challenges, such as the integration in smart cities and related ethical and legal issues. This tool gathers geo-tagged information enriched with CPTED characteristics, including corners and spaces with low visibility, spaces without surveillance, spaces not attended by people, high risk spaces, accesses, lighting, functionalities, conditions, and attendance. Implications for the future will be presented as well.