Image analysis and machine learning applied to fighting against cybercrime

In these days, criminal activities are very present in the Internet and Law Enforcement Agencies need more help than ever for fighting against them. Methods based on Artificial Intelligence, and specifically those using Computer Vision and Machine Learning, are more than necessary to support police officers in this fight.

In this talk, Enrique Alegre will present some of the applications and research lines he has been working in the last ten years in collaboration with INCIBE, the Spanish Institute for Cybersecurity, and also during his involvement in three European Projects focused in fighting against Child Sexual Exploitation. Face detection or age estimation applied to faces partially occluded, and combined later on with a pornography classifier, the use of object retrieval or scene recognition for solving police cases, the application of Text-spotting or perceptual hashing in this field, will be, among others, some of the problems that will be analysed and discussed.