

<b>Patent Title:</b>	<b>Method for efficient target detection from images robust to occlusion</b>
<b>FBK Center:</b>	ICT – Information and Communication Technology
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<b>Application number(s):</b>	EP Application No. 09425338.2 — priority date 2009-09-01; US Patent Application No. 12/807,388 — filing data 2010-09-01
<b>Bibliographic data:</b>	EP2302589 (A1) — 2011-03-30; EP2302589 (B1) — 2012-12-05; US2011050940 (A1) — 2011-03-03; US8436913 (B2) — 2013-05-07
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<b>IP Status:</b>	Patent granted. Available for license or patent assignment
<b>Patent Family:</b>	EP2302589 (B1) — 2012-12-05; US8436913 (B2) — 2013-05-07
<b>Application(s):</b>	Video surveillance, Video tracking
<b>Keyword(s):</b>	Object detection, Target tracking
<b>Abstract:</b>	The method for efficient target detection from images robust to occlusion disclosed by the present invention detects the presence and spatial location of a number of objects in images. It consists in (i) an off-line method to compile an intermediate representation of detection probability maps that are then used by (ii) an on-line method to construct a detection probability map suitable for detecting and localizing objects in a set of input images efficiently. The method explicitly handles occlusions among the objects to be detected and localized, and objects whose shape and configuration is provided externally, for example from an object tracker. The method according to the present invention can be applied to a variety of objects and applications by customizing the method's input functions, namely the object representation, the geometric object model, its image projection method, and the feature matching function.

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