# **AutoPost**

DEFORMABLE SURFACE TRACKING AND ALPHA MATTING FOR THE AUTOMATION OF POST-PRODUCTION WORKFLOWS

> Automate and improve efficiency of labour-intensive VFX tasks by integrating state-of-the-art algorithms for **deformable** surface tracking and natural video matting into plugins for established post-production platforms.

### Applications VFX in 2D and 3D post-production workflows:

- Object and skin manipulation
- Appearance modification: digital makeup, ageing and de-ageing
- Scene extension and replacement
- Compositing and matting hair with arbitrary and natural backgrounds
- Object selection for color grading and finishing

💹 Fraunhofer









**Heinrich Hertz Institute** 

AutoPost project is co-funded by the **European Union's Horizon 2020** research and innovation programme under grant agreement No. 644629 It runs from January 1st, 2015 to June 30th, 2016

www.autopost-project.eu

European Commission

Horizon 2020 European Union funding for Research & Innovation

## In brief:

- SDKs and plugins that bridge the gap between state-of-the-art computer vision algorithms and commercial tools
- Ready-to-market tracking and matting plugins for established post-production platforms
- Solutions targeting small and medium post-production companies for reducing their overall production costs and boosting their competitiveness in the global market
- Avoid expensive green screen, motion capture or rotomation techniques
- User-centered research for post-production

#### Features and tools Significant progress in VFX productions:

- **Tracking methods** that estimate temporal consistent surface motion, deformation, and shading changes, even in presence of temporary occlusions under real-world conditions.
- Matting methods that provide accurate and more realistic mattes for VFX and post-production processes with particular attention to motion blur and deformable surfaces under real-world conditions.
- Software Development Kits (SDKs) for the tracking and matting algorithms.
- **Tracking and matting plugins** for existing established post-production platforms using standard interfaces for data interchange.

# **Contact and information**

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