

Zeroth-Order Optimizer Benchmarking for 3D Performance Capture

A real-world use case analysis. Supplementary material #3.

Alexandros Doumanoglou
Petros Drakoulis*
Kyriaki Christaki*
aldoum@iti.gr
petros.drakoulis@iti.gr
kchristaki@iti.gr

Nikolaos Zioulis*
Vladimiros Sterzentsenko
Antonis Karakottas
nzioulis@iti.gr
vladster@iti.gr
ankarako@iti.gr

Dimitrios Zarpalas
Petros Daras
zarpalas@iti.gr
daras@iti.gr

Centre For Research and Technology
HELLAS
Thessaloniki, Greece

ABSTRACT

This document contains the 3rd part of the supplementary material of the paper: <https://doi.org/10.1145/3449639.3459354>. Visit the project's page at <https://vcl3d.github.io/nevergrad/>.

*Denotes equal contribution

Figure 1: Animated renderings of the optimization process for each optimizer illustrating its search and convergence behaviour across iterations on the Boxing global experiment. The (truncated) Chamfer distance is visualized on top of the animated mesh, while the target mesh is Phong shaded with green color. (animations are only playable in recent Adobe Acrobat Reader versions – playback pauses when holding the left mouse button down on the Figure).