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LANGUAGES

Spanish $\star \star \star \star \star$ Catalan: $\star \star \star \star \star$ English: $\star \star \star \star \star$



DEEP LEARNING SKILLS

Human Behaviour

Human Pose and Shape

Human 3D Clothing

Image processing 3D Vision

Computer Graphics

COMPUTING SKILLS

Unsupervised learning

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Parallel Computing MatLab Python C++ Optimization TensorFlow PyTorch Blender 3D Rendering Physically Based Simulation



MEMBERSHIPS

 Human Pose Recovery and Behaviour Analysis

- University of Barcelona
- Computer Vision Center

Work experience

ADOBE RESEARCH @Intern JUL 2022 - OCT 2022

Research internship as part of my PhD. Research and development of novel approaches based on deep learning algorithms.

DISNEY RESEARCH STUDIOS @Intern

OCT 2021 - FEB 2022 Research internship as part of my PhD. Research and development of novel approaches based on deep learning algorithms.

HEMAV S.L. @I+D SEP 2013 - JUN 2014

Design and implementation of Ranger Drone with RGB and thermal cameras for poacher detection through Computer Vision at Kruger's National Park, South Africa.

Education

P.H.D. IN MATHEMATICS AND COMPUTER SCIENCE @UB APR 2018 - NOV 2022

Focused on analysis Human-Centric scenarios through deep learning. Advisor Sergio Escalera (www.sergioescalera.com)

MASTER ON ARTIFICIAL INTELLIGENCE @UPC SEP 2015 - JUN 2017 Master's degree on Artificial Intelligence at UPC, UB & URV.

AERONAUTICAL ENGINEERING DEGREE @UPC SEP 2011 - JUN 2015 Degree on aeronautical engineering at UPC.

Publications

Hugo Bertiche, Niloy J. Mitra, Kuldeep Kulkarni, Chun-Hao Paul Huang, Tuanfeng Y. Wang, Meysam Madadi, Sergio Escalera and Duygu Ceylan. Blowing in the Wind: CycleNet for Human Cinemagraphs from Still Images. CVPR 2023.

Hugo Bertiche, Meysam Madadi, and Sergio Escalera. 2022. Neural Cloth Simulation. ACM Trans. Graph. 41, 6, Article 220 (December 2022), 14 pages. https://doi.org/10.1145/3550454.3555491

Hugo Bertiche, Meysam Madadi, and Sergio Escalera. 2021. PBNS: physically based neural simulation for unsupervised garment pose space deformation. ACM Trans. Graph. 40, 6, Article 198 (December 2021), 14 pages. DOI:https://doi.org/10.1145/3478513.3480479

Bertiche, H., Madadi, M., Tylson, E., & Escalera, S. (2021). DeePSD: Automatic deep skinning and pose space deformation for 3D garment animation. In Proceedings of the IEEE/CVF International Conference on Computer Vision (pp. 5471-5480).

H. Bertiche, M. Madadi and S. Escalera, "Deep Parametric Surfaces for 3D Outfit Reconstruction from Single View Image," 2021 16th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2021), 2021, pp. 1-8, doi: 10.1109/FG52635.2021.9667017.

Madadi, M., Bertiche, H., Bouzouita, W., Guyon, I. & Escalera, S.. (2021). Learning Cloth Dynamics: 3D+Texture Garment Reconstruction Benchmark. Proceedings of the NeurIPS 2020 Competition and Demonstration Track, in Proceedings of Machine Learning Research 133:57-76 Available from https://proceedings.mlr.press/v133/madadi21a.html.

Meysam Madadi, Hugo Bertiche, and Sergio Escalera, Deep unsupervised 3D human body reconstruction from a sparse set of landmarks, Int J Comput Vis 129, 2499–2512 (2021). https://doi.org/10.1007/s11263-021-01488-2.

Bertiche, H., Madadi, M., & Escalera, S. (2020, August). CLOTH3D: Clothed 3D Humans. In European Conference on Computer Vision (pp. 344-359). Springer, Cham.

Madadi, M., Bertiche, H., & Escalera, S. (2020). SMPLR: Deep learning based SMPL reverse for 3D human pose and shape recovery. Pattern Recognition, 107472.