

Advancing non-rigid 3D/4D human mesh registration for ultra-personalization

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Propositions

accompanying the dissertation

Advancing non-rigid 3D/4D human mesh registration for ultra personalization

by

Farzam Tajdari

The accelerated development of technologies, especially digital technologies, opens up possibilities for the design and production of personalized products. (This thesis)

Personalized design is gradually transitioning from a manual task to an automated task. (This thesis)

Non-rigid mesh registration enables knowledge transfer of geometry, bringing automated product personalization into reality. (This thesis)

Deforming a mesh to achieve geometric resemblance to another mesh is not challenging; the challenging part lies in determining the path that enhances the resemblance. (This thesis)

Understanding human body shapes during movement will revolutionize apparel design.

Performing dynamic measurements is a technological task, while interpreting dynamic measurements is an art.

Time imposes patterns on sequential phenomena, and recognizing these patterns in 4D is an aesthetic enjoyment.

In the end, all nonlinear problems can be approached in a linear way.

I decided to pursue a PhD because I heard that traveling for conferences is fun. However, due to COVID-19, all conferences have moved online.

PhD life is challenging until the first paper is published; after that, it becomes more enjoyable.