

CONTACT

+33 6 59 80 48 19

yin.tairan@inria.fr

Inria de l'Université de Rennes -263 Avenue du Général Leclerc -CS74205, 35042 Cédex. Rennes, France

HOBBIES

Photography

Image processing

Reading (in Chinese and French)

Sport: fitness

Travelling: Iceland, France, China,

Span, Italie, England

SKILLS

Languages

Chinese: Mother tongue French: C1(DALF):

English: B2-C1(TOEIC 900/990)

Computer sciences

C# skilled C++skilled Matlab skilled **CUDA** skilled Python skilled OpenCV utilization OpenGL utilization

PUBLICATION

T. Yin, L. Hoyet, M. Christie, M. -P. Cani and J. Pettré, "The One-Man-Crowd: Single User Generation of Crowd Motions Using Virtual Reality," in IEEE Transactions on Visualization and Computer Graphics, vol. 28, no. 5, pp. 2245-2255, May 2022, doi: 10.1109/TVCG.2022.3150507.

EXPERIENCES

Authoring Dynamic Crowd Scene for Virtual Reality

Inria de l'Université de Rennes, Rennes, France

11/2020 -**Today**

The goal of this research is to populate virtual scenes by generating realistic behaviors for a group of virtual characters. This includes the generation of trajectories and body motions that present reasonable interactions between characters and environments.

C#, Matlab, and Unity3D

High Precision Motion Capture in Virtual Reality

02/2022

05/2022

Max-Planck Institut für Intelligente Systeme, Tübingen, Germany A 4-month visit at the Perceiving System department. I worked on creating a system that captures human motion directly described by the famous SMPLX model.

C#, Vicon, and Unity3D

3D hand shape alignment and reconstruction from depth images

11/2018

State Key Laboratory of Virtual Reality Technology and Systems, Beijing, China

06/2020

Based on the DynamicFusion method, a 3D reconstruction of a moving hand using depth information from a single depth camera.

Implementation of TSDF for reconstruction and hand alignment.

Matlab, C++, Python, OpenCV, OpenGL, etc.

Estimation of curved surfaces from point clouds

06/2018

Institut Fresnel, Marseille, France

08/2018

Surface estimation in the situation where a complete sampling cannot be carried out. Development of a new MLS-based method for estimating areas represented by a sparse point cloud.

Matlab

EDUCATION

2016- 2018	Ecole Centrale de Marseille, Marseille, France Double General Engineering Diploma Courses specialized in computer sciences. Study of Python, C ++ and Keras, also including mathematics, physics, optics, etc.
2013-	Ecole Centrale de Pékin, Beihang University, Beijing, China

Bachelor of Mathematics (2013-2016) 2016 Sino-French, trilingual intercultural education. French preparatory class,

And 2018-

math (algebra, geometry, analysis), physics (mechanics, electronics, optics)

Master of Engineering(2018-2020) 2020 The research is described above.