Yixiao Kang

Phone: 13456198380 | Email: 819601193@qq.com

EDUCATION

Shanghai Jiaotong University.   Sep 2019

Software engineering. Bachelor Electronic Information and Electrical Engineering College.

GPAP : 3.8/4.3
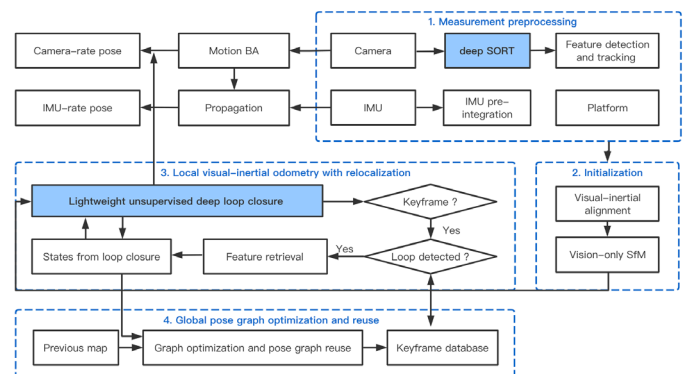
Selvia University.

Summer exchange, I learned digital media and design.

Research Experience

2021 International Conference on Display Technology (ICDT) , AR field , first author. I am going to attend ICDT Conference in Beijing for an oral report.
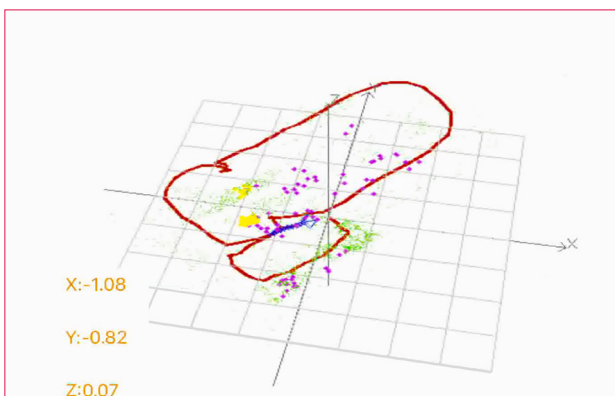
I present a method of simultaneous tracking, tagging and mapping (STTM) for the augmented reality (AR) by feeding off the deep-SORT-based object tagging and lightweight unsupervised deep loop closure.

I used Apple's latest Lidar Scanner and ARKit to propose a framework for the current visual SLAM and improved the existing algorithm by using the CNN network and other algorithms. This framework supports real-time modeling of the scanning environment, virtual annotation on the real scene, and the establishment of 3D mesh, which provides important technical support for mobile AR.
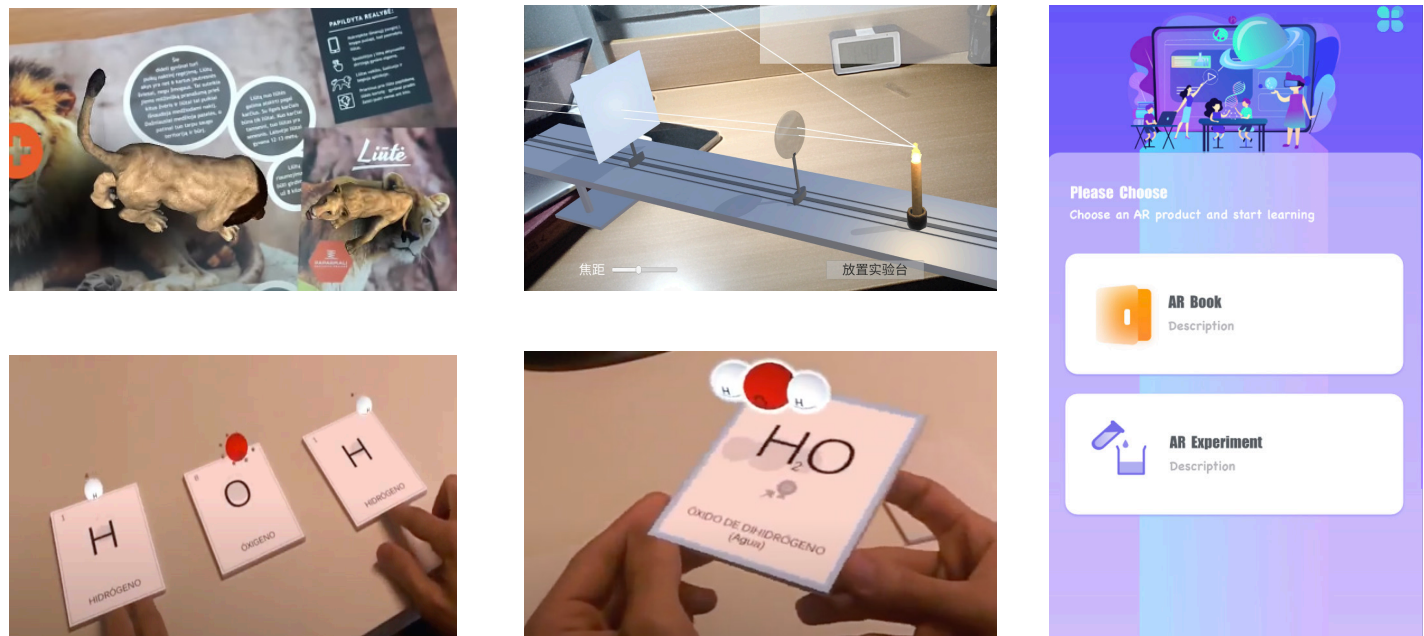

2020 Project leader of Shanghai Jiao Tong University "Participation In Research Program" 3D Scener Rebuild & Location Based on Deep Camera.

In the project, we studied augmented reality, computer vision, neural network, machine learning, etc., independently developed and tested the IOS real-time scanning environment modeling APP. See the attachment for the video.

2020 Project leader of the "STEAM education and virtual experiment platform based on augmented reality technology" project of Shanghai Jiao Tong University students' innovative practice plan. This project is a collaboration with the Digital Art Laboratory of Shanghai Jiao Tong University. We used Unity to create an AR app for middle school teaching, which includes physics experiments, chemistry experiments and AR books. The physics experiment is a convex lens imaging experiment. In the experiment, virtual models (candle, light screen, lens, etc.) can be displayed, and AR information can be marked on the real light holder, such as light visualization, marking object distance, phase forming distance, etc. Chemistry experiments simulate the bonding of atoms into molecules, using interesting animations and interactions. AR books selected a variety of animals and plants, the universe model, made a rich animation and interpretation, to make the textbook more vivid.
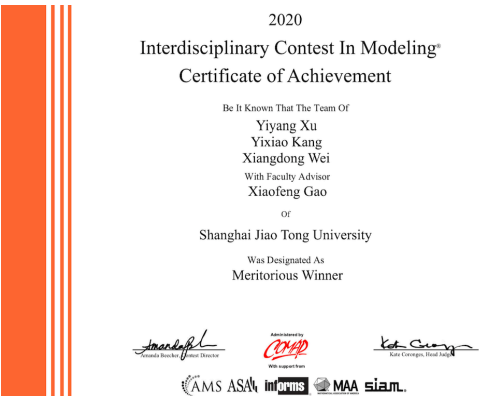

HONORS & AWARDS

American Mathematical Modeling Competition Meritorious Award (First Prize)	2019
Young Bird Plan international product design competition has been promoted to the top 92 globally among more than 200 domestic and foreign top universities including Harvard, Cornell and Tsinghua University.	2018
Alipay Hello Bicycle Product Design Competition National First Prize	2019
Shanghai Class A Scholarship	2019
Shanghai Jiaotong University "Into the Beidou" industry practitioner excellent team, Outstanding Individual Award	2020

Society, organize experience and social welfare

The biggest music festival in Europe -- EXIT	Jul 2018
Head of China Youth Volunteer League	Serbia

Organize the stage control, lighting control, audience route index, audience question and answer work of the music festival to provide convenience for international friends

Master Distinguished Lecture   Oct 2020 - Present

Moderator head

We provide lecture hosting services for Nobel Prize winners, academicians of the Chinese Academy of Sciences and other academic masters. I trained the members of the host group.

Shanghai International Marathon   Shanghai

Volunteer 2019

Organize marathon track layout.

Student Union of School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University   Sep 2020 - Present

head of Literature and Art Department

We held large school-level evening galas.

Shanghai Import Expo   Oct 2020

Youth Volunteer Certificate Designer

"Into the Beidou" industry practice group   Jul 2020

The head of the delegation   Shanghai

Led the team to carry out the research of China Beidou West Hongqiao Base, and the team won the first prize in the provincial evaluation of school-level social practice key team and the title of "Outstanding Individual in Social Practice".

Shanghai Jiaotong University Swimming Team   Sep 2019 - Present

member

Shenzhen Innovation Entrepreneurship Troupe   Aug 2019

Head of the head   Shenzhen

Interviewed the CEO, IDH Create Valley CEO, and a large incubator company, obtained entrepreneurial guidance.

Siyuan Public Welfare Henan Province Chengwu County Education Program   Mar 2020

Volunteer teacher

To Henan Xiuwu Primary School students to teach, introduce interesting knowledge of electrical subjects。