Loie Sun

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Education

Shanghai Film Academy, Shanghai University (M.Sc.)	1/19	2020.09-2023.04
School of Software, Yunnan university (B.S.)	7/77	2015.09-2019.06

Research

Sound Generation Method with Timing-aligned Visual Feature Mapping
2021.09-2022.03   ChinaMM 2022, CADCG
- Generating high-quality sound matching to silent videos in content and timing alignment, through extracting the visual features and building a visual feature-guided model;
- Proposed a timing-aligned visual feature mapping network, composed of visual feature aggregation module, cross-modal feature mapping module and audio decoding module;
- Experimental results show that the new method has a significant improvement in fidelity and timing-alignment, compared with the state-of-the-art method.

Multi-Scale Gragh Convolutional Interaction Network for Salient Object Detection
2020.09-2021.03   ICIP 2021
- Salient object detection (SOD) aims to distinguish the most visually obvious regions;
- Proposed the multi-scale graph convolutional interaction network (MGCINet), which consists of the feature interaction module (FIM), the feature aggregation module (FAM), and the residual refinement module (RRM).
- Experiments show that our method outperforms the state-of-the-arts on five benchmark datasets under different evaluation metrics.

Theses and Projects

2022	*Sound Generation Method with Timing-aligned Visual Feature Mapping* (**ChinaMM, CADCG**)
2021	*Multi-Scale Gragh Convolutional Interaction Network for Salient Object Detection* (**ICIP**)
2019	Application Design and Development of Video Stabilization based on Image Processing
2018	Massive and Highly Concurrent Library Management System Design and Development based on Open Source Relational Database
2017	Visual Effect Design and Program Development of 3D Game based on Jmonkey Engine

Awards

2021	Second Class Prize	National Post-Graduate Mathematical Contest in Modeling
2021	First Class Scholarship (5%)	Shanghai University
2020	First Class Scholarship (5%)	Shanghai University
2018	Second Class Scholarship (10%)	Yunnan University
2018	Outstanding Student Leaders (5%)	Yunnan University
2017	Second Class Scholarship (10%)	Yunnan University
2017	Outstanding Student Leaders (5%)	Yunnan University

Social Practice

2021	**Caption Operator** in 24th Shanghai International Film Festival
2018	**Director** of News Center of the Student Union of the School of Software, YNU
2017	**Director** of Journalist Department of the Student Union of the School of Software, YNU
2016	**Volunteer Teacher** in Qianwei Town Central School, Yuxi City, Yunnan Province

Skills

Coding: Python (Proficient); C、Java (Familiar); Pytorch (Proficient)
Interests：Multi-Media & Digital Media Processing; Multimodal learning, Cross-modal Generation
English: CET-6, Language Service Competence Accumulation & Training(S100 Certification)
Software: Adobe Photoshop, Premiere, Audition, Maya, 3Ds Max, Unity