

Xiaoming Liu

MSU Foundation Professor at Michigan State University

East Lansing, MI, US

Xiaoming Liu works on computer vision, machine learning, and biometrics, especially on face related analysis.

Biography

Xiaoming Liu earned his Ph.D degree in Electrical and Computer Engineering from Carnegie Mellon University in 2004. He received a B.E. degree from Beijing Information Technology Institute, China and a M.E. degree from Zhejiang University, China in 1997 and 2000 respectively, both in Computer Science. Prior to joining MSU, he was a research scientist at the Computer Vision Laboratory of GE Global Research. His research interests include computer vision, pattern recognition, machine learning, biometrics, human computer interface, etc.

Industry Expertise

Computer Software, Computer Hardware, Biotechnology

Areas of Expertise

Human Computer Interfaces, Deepfake Detection, Pattern Recognition, Machine Learning, Computer Vision, Biometrics

Affiliations

IEEE Transactions on Biometrics, Behavior, and Identity Science (T-BIOM) Special Issue on Trustworthy Biometrics : Guest Editor, 2020 - 2022, Corresponding Expert of Frontiers of Information Technology & Electronic Engineering : Guest Editor, 2019 - 2022, Engineering Journal Special Issue on Artificial Intelligence 2021 : Guest Editor, 2021, Pattern Recognition Letter Special Issue on Biometric Presentation Attacks: handcrafted features versus deep learning approaches : Guest Editor, 2019, ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM) Special Issue on Face Analysis for Applications : Guest Editor, 2018 - 2019, Machine Vision and Applications Special Issue on 2018 IEEE Winter Conference on Applications of Computer Vision : Guest Editor, 2018, International Journal of Computer Vision Special Issue on Deep Learning for Face Analysis : Guest Editor, 2017 - 2018, IEEE Transaction on Image Processing : Associate Editor, 2019 - Present, Pattern Recognition : Associate Editor, 2019 - Present, Pattern Recognition Letters : Associate Editor : 2019 - Present, Neurocomputing Journal : Associate Editor, 2016 - 2019

Event Appearances

On the Accuracy, Vulnerability, and Biasness of Face Recognition, The 15th Chinese Conference on Biometrics Recognition (CCBR)

The 15th Chinese Conference on Biometrics Recognition (CCBR), Shanghai, China

Monocular Video-based 3D Perception for Autonomous Driving
7th Tech.AD USA conference 2020, Detroit MI

3D Perception for Autonomous Driving: Research and Education
Southern University of Science & Technology, Shenzhen, China

Autonomous Sensing: from 3D Object Detection to Biometric Recognition
Army Research Laboratory, Adelphi, MD

Monocular Vision-based 3D Perception for Autonomous Driving
General Motor Research and Development Center, Warren MI

Education

Zhejiang University
M.S. Computer Science and Engineering

Carnegie Mellon University
Ph.D. Electrical and Computer Engineering

Beijing Information Technology Institute
B.A. Computer Science and Engineering

Accomplishments

MSU Foundation Professor
2021

Fellow of International Association for Pattern Recognition (IAPR)
2020, for contributions to face and video analysis

Finalist of the CVPR 2019 Best Paper Award
2019, for students' work of "Deep Tree Learning for Zero-shot Face Anti-Spoofing"

Best Oral Paper Award
2019, for the paper "UGLLI Face Alignment: Estimating Uncertainty with Gaussian Log-Likelihood Loss" at the First Workshop on Statistical Deep Learning in Computer Vision (SDLCV)

Withrow Distinguished Scholar/Junior Award
2018, established by the Withrow family to recognize faculty of the MSU College of Engineering who have demonstrated excellence in scholarly activities

**Invited Participant, Microsoft Research Faculty Summit
2017**

**Best Poster Award, 26th British Machine Vision Conference (BMVC)
2015, as co-author**

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