MING-RUEY CHOU

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MingRuey
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Ming-Ruey Chou has hands-on skills of design, train and deploy deep learning models into production-level code. He is currently developing image recognition solutions for automated optical inspection (AOI) systems. He uses deep learning combined with traditional computer vision to identifying defects in the manufacturing process.

WORK EXPERIENCE

2020 - Current **Computer Vision Engineer, AI Group Leader**, *UTECHZONE*, Taipei.

- Create automated scripts for fast model tuning and performance reports.
- Blend traditional computer vision techniques into deep learning systems to improve performance.

2019 - 2020 **Computer Vision Engineer, AI Group**, *UTECHZONE*, Taipei.

- Research on generative adversarial networks (GAN) for defect detections.
- Analyze failures and improve model performance through data augmentation.
- Design, implement, and deploy a new Python-based engine into an existing deep learning library. It enables efficient training and inference and becomes the standard engine thenceforth.
- Build up unit tests and integration tests from scratch, increase test coverage from 0% to over 70%.

Skills

Languages	Python, C#, C, C++
Computer Vision	Opecv/Emgucv in both Python, C#, and C++
Deep Learning	Tensorflow (including Keras API), Numpy related tools
Environment	Windows, Linux
Development	Git, Docker, NUnit, Pytest

EDUCATION

2016 **M.S. in Physics**, *Department of Physics*, National Taiwan University.

Thesis: Rheometry on Concentrated Suspension of Soft Particles.

Publish on Soft Matter: doi.org/10.1039/D0SM00405G
(In Mandarin) Website: www.phys.sinica.edu.tw/jctsai/Ray2016/

2013 **B.S. in Physics**, *Department of Physics*, National Taiwan University.

OTHER EXPERIENCE

2018 Jan; 2018 JUL **Twin Oaks Education**, *Course Design and Project Mentor*, www.twinoaks-edu.com/.

2017 **Substitute Services in Education**, *Xinyi Elementary School*, Hualien, Taiwan.