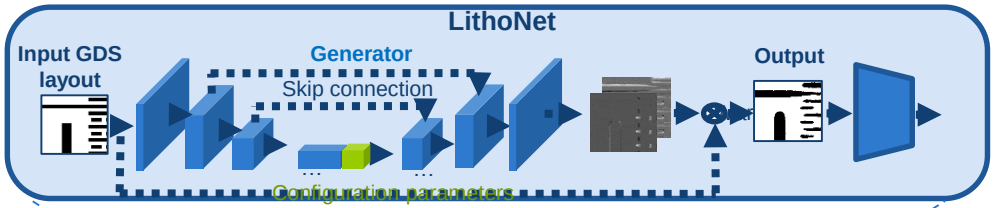
AI Research Topics (林嘉文)

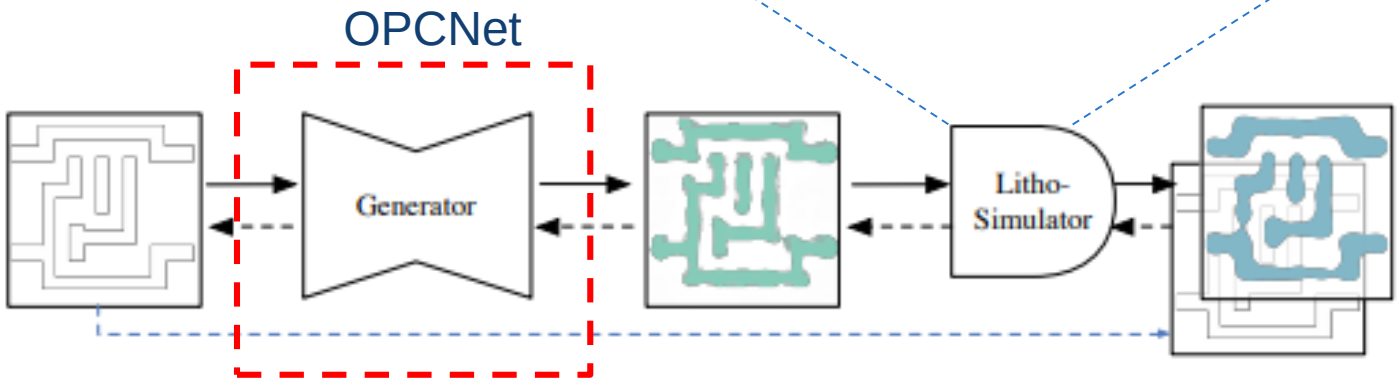
Deep Learning-Based Computer Vision

- Deep Learning-Based IC Fabrication Prediction (UMC)
- Retinal Image Analysis for Diabetes Eye Diseases (ITRI)
- Identity-Preserving Face Processing (LiteOn)
- Person Re-identification (MOST AI)
- Computer Vision for Smart Phones (Qualcomm)

UMC 聯華電子

Deep Learning-Based IC Fabrication Prediction

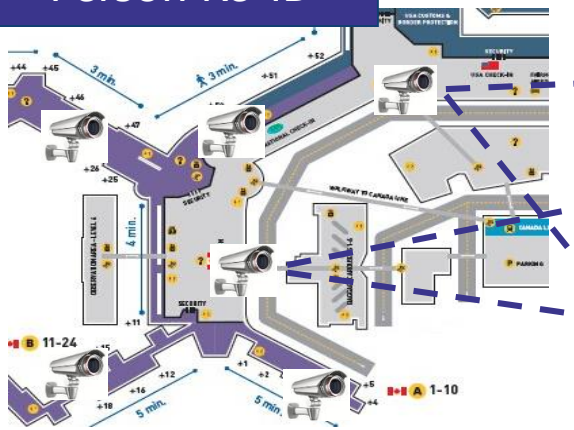


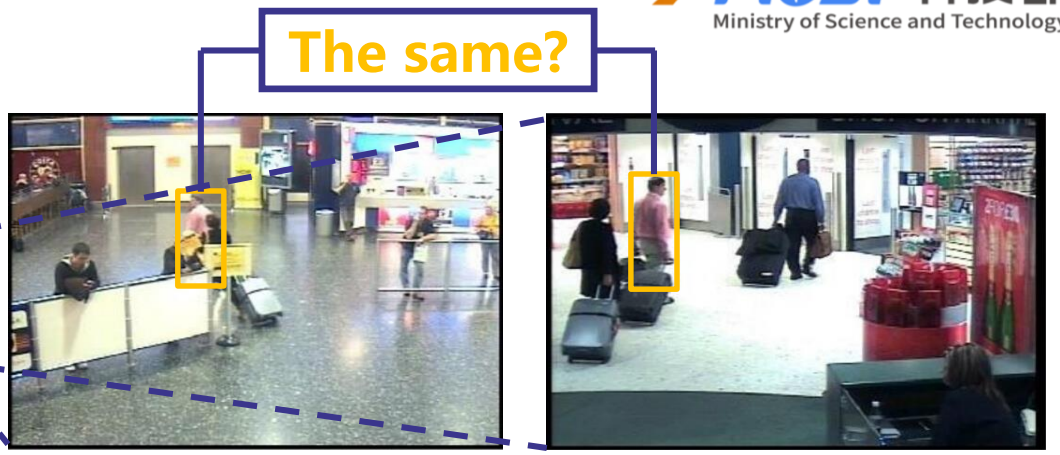


AI Research Topics (林嘉文)

MOST 科技部
Ministry of Science and Technology

Person Re-ID

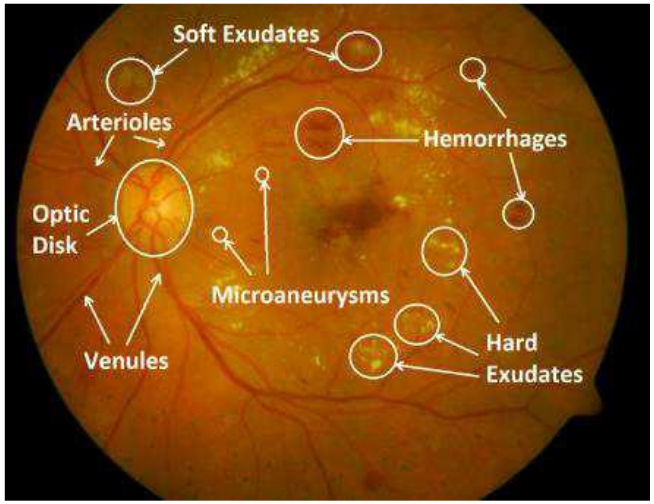




Camera a　　Camera b

工業技術研究院
Industrial Technology Research Institute

Diabetes Eye Disease Detection



QUALCOMM®

Low-Shot Learning for Smart Phone Vision

Input　　Novel Class　　Result

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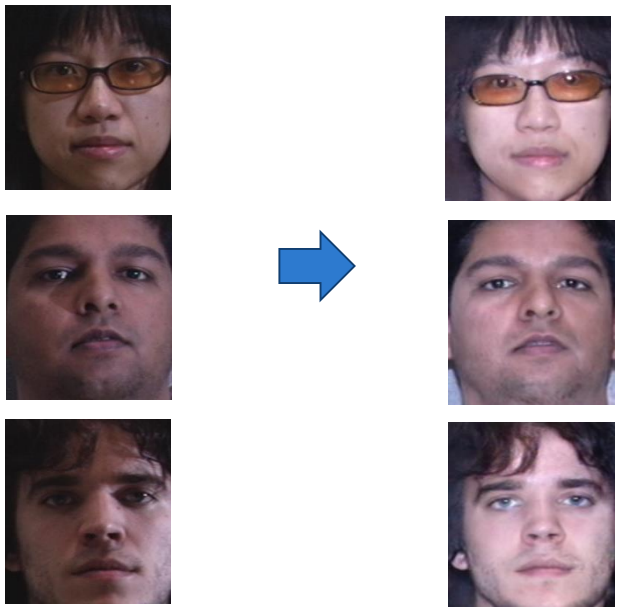
LITEON® 光寶集團 LITE-ON GROUP

Tiny Face Detection

Face Hallucination

Methods	8 × 8 to 32 × 32	16 × 16 to 64 × 64
HR	83.3%	92.7%
LR	64.1%	64.3%
Bicubic	64.8%	63.7%
SiGAN (proposed)	80.1%	81.9%

Face Deshading



Face Frontalization