

Yongqi Chen

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🏠 Guangdong Key Laboratory of Intelligent Information Processing, Shenzhen University, Shenzhen 518060, China, also with Shenzhen Key Laboratory of Media Security, Shenzhen University, Shenzhen 518060, China

Education

- 2023–Present 📖 **Ph.D. Candidate**, Shenzhen University
Next-Generation Electronic Information Technology
Research Area: Multimedia Forensics and Security
- 2020–2023 📖 **M.Eng.**, Guangdong University of Technology
Electronic Information
- 2016–2020 📖 **B.Eng.**, Guangdong University of Technology
Environmental Engineering

Academic Achievements

- 📖 Chen Z, **Chen Y**, Chen C, et al. DiffEraser: Generalized Text Erasure Based on Latent Diffusion Prior[J]. IEEE Transactions on Image Processing, 2026.
- 📖 **Chen Y**, Zhao L, Cai R, et al. Forensicability Assessment: Not All Samples Qualify for Recapture Detection[C]//2025 IEEE International Conference on Multimedia and Expo (ICME). IEEE, 2025: 1-8.
- 📖 Chen C, Lin L, **Chen Y**, et al. CMA: A Chromaticity Map Adapter for Robust Detection of Screen-Recapture Document Images[C]//Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition. 2024: 15577-15586.
- 📖 **Chen Y**, Pan J, Lei J, et al. EEE-Net: Efficient Edge Enhanced Network for Surface Defect Detection of Glass[J]. IEEE Transactions on Instrumentation and Measurement, 2023, 72: 1-13. (JCR Q1)
- 📖 **Chen Y**, Zhang Q, Bai L, et al. First-principles studies the optical properties of defective-GQDs and fullerene[J]. Computational Condensed Matter, 2023, 35: e00793. (IF 3.3)
- 📖 Lin Z, **Chen Y**, Zhang Q, et al. Lithium-Ion Storage Mechanism in Metal-NC Systems: A First-Principles Study[J]. ACS omega, 2022, 7(3): 2613-2617. (IF 4.1) Advisor (First Author), Student (Second Author)

Research Experience

- 📖 **National Natural Science Foundation of China, General Program: Recaptured Document Image Forensics Based on Distortion Models in Adversarial Scenarios**
- 📖 1. Designed a confidence-guided scoring network to evaluate the strength of tampering traces, enabling the model to filter suitable samples during inference and improve detection performance in unseen scenarios. 2. Participated in the collection, annotation, and organization of recaptured document image datasets.

Research Experience (continued)

- **China Computer Federation (CCF) - Alibaba Innovative Research Program Youth Science Fund: Screen Re-capture and Re-recording Detection Based on Distortion Models and Domain Generalization Networks**
- 1. Designed a method to evaluate the significance of forensic traces in recaptured images, which outputs a forensicability score for each sample to guide the reliability assessment of downstream recapture detection networks.
2. Conducted research on the restoration of recaptured document images to reduce distortion artifacts and recover more reliable forensic cues.
- **National Key R&D Program of China: Key Technologies and System for Quality Inspection with Autonomous Learning Capability in the New Generation Artificial Intelligence**
- During my master's studies, participated in a semantic segmentation task on a defect dataset, proposed a method that achieved both the highest segmentation accuracy and efficient detection, and authored a paper.

Honors and Awards

- Special Prize for Outstanding Innovative Talent, Shenzhen University (2024)
- Outstanding Innovative Talent Award for Graduate Students, Guangdong University of Technology (2021)
- First-Class Graduate Academic Scholarship, Guangdong University of Technology (2023)
- Outstanding Startup Award, 8th China Innovation and Entrepreneurship Competition (Guangdong-Guangzhou Division) and 4th Yangcheng "Sci-Tech Innovation Cup" Innovation and Entrepreneurship Competition (Team Leader)
- First Prize, Guangzhou "Qinglan Plan," for the Paper Kingdom Maker Education Project (Team Leader)
- Top 24, Foshan Division, HKUST One Million Dollar Entrepreneurship Competition (Team Leader)

Practical Experience

- Graduate Summer School on Deep Learning and Intelligent Control, School of Automation (2019): Designed a robotic arm for banana peeling.
- Intern, Paper Kingdom (Guangzhou) Technology Co., Ltd. (2019): Participated in the development of STEAM educational teaching aids and courses.