

Yan-Tsung Peng

ytpeng@cs.nccu.edu.tw | <https://www.cs.nccu.edu.tw/~ytpeng/>

EDUCATION

Ph.D. Electrical and Computer Engineering, University of California, San Diego, La Jolla, CA, USA,
Dec. 2017.

AFFILIATION

Associate Professor, Dept. of Computer Science, National Chengchi University, Taipei, Taiwan

HONORS / RECOGNITIONS

- 2024: Best Conference Paper Award, IEEE 4th International Conference on Electronic Communications, Internet of Things and Big Data (Co-author)
- 2018: Top Reviewers, IEEE Int. Conf. on Multimedia and Expo
- 2015: Top 10% Paper Designation, IEEE Int. Conf. on Image Processing

JOURNAL EDITORSHIP

- Topic Editor, Sensors, Machines, Remote Sensing, Robotics, Journal of Marine Science and Engineering (Topic: Underwater Vision Technology),
<https://www.mdpi.com/topics/R3U6PHZ69X> (2023~2025)
- Guest Editor, Sensors Journal (Special Issue "AI Multimedia Applications")
https://www.mdpi.com/journal/sensors/special_issues/AI_app_M (2021~now)

PUBLICATIONS

<https://scholar.google.com/citations?user=KpB7QA0AAAAJ&hl=en>

LIST OF SPS PUBLICATIONS

(11 papers cited 1,837 times in total)

- **Y.-T. Peng** and W.-H. Li, "Rain2Avoid: Self-Supervised Single Image Deraining," *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2023. (2 citation)
- F.-J. Tsai, **Y.-T. Peng**, C.-C. Tsai, Y.-Y. Lin, and C.-W. Lin, "BANet: A Blur-Aware Attention Network for Dynamic Scene Deblurring," *IEEE Trans. Image Process.*, Oct. 2022. (77 citations)
- **Y.-T. Peng**, K.-H. Cheng, I-S. Fang, W.-Y. Peng, and J.-S. Wu, "Single Image Reflection Removal based on Knowledge-distilling Content Disentanglement," *IEEE Signal Processing Letters*, Feb. 2022. (11 citations)
- J.-L. Yin, B.-H. Chen, and **Y.-T Peng**, "Two Exposure Fusion Using Prior-Aware Generative Adversarial Network," *IEEE Transactions on Multimedia*, June 2021. (16 citations)
- J.-L. Yin, B.-H. Chen, **Y.-T. Peng** and C.-C. Tsai, "Deep Prior Guided Network For High-Quality Image Fusion," *IEEE International Conference on Multimedia and Expo (ICME)*, Jul. 2020. (30 citations)
- J.-L. Yin, B.-H. Chen, **Y.-T Peng**, and C.-C. Tsai, "Deep Battery Saver: End-to-end Learning for Power Constrained Contrast Enhancement," *IEEE Transactions on Multimedia*, May 2020. (16 citations)
- **Y.-T. Peng**, K. Cao, and P. C. Cosman, "Generalization of the Dark Channel Prior for Single Image Restoration," *IEEE Trans. Image Process.*, Jun. 2018. (545 citations)
- **Y.-T. Peng** and P. C. Cosman, "Underwater Image Restoration based on Image Blurriness and Light Absorption," *IEEE Trans. Image Process.*, Apr. 2017. (922 citations)
- **Y.-T. Peng** and P. C. Cosman, "Single Image Restoration using Scene Ambient Light Differential," *IEEE Int. Conf. on Imag. Process. (ICIP)*, pp. 1953-1957, Sep. 2016. (21 citations)
- **Y.-T. Peng**, X. Zhao, and P.C. Cosman, "Single Underwater Image Enhancement using Depth Estimation based on Blurriness," *IEEE Int. Conf. on Imag. Process. (ICIP)*, pp. 4952-4956, Sep. 2015. (**top 10% paper**) (181 citations)
- **Y.-T. Peng**, F.-C. Cheng, L.-M. Jan, and S.-J. Ruan, "Histogram shrinking for power-saving contrast enhancement," *IEEE Int. Conf. on Imag. Process. (ICIP)*, pp. 891-894, Sep. 2013. (16 citations)