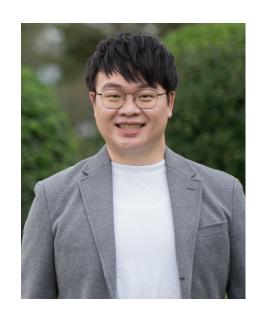


ACADEMIA SINICA EARLY-CAREER INVESTIGATOR RESEARCH ACHIEVEMENT AWARD



王建堯

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代表著作:

- Chien-Yao Wang, I-Hau Yeh, and Hong-Yuan Mark Liao, (2024), "YOLOv9: Learning What You Want to Learn Using Programmable Gradient Information," *The European Conference on Computer Vision (ECCV)*, 2024.
- Chien-Yao Wang, Bochkovskiy Alexey, and Hong-Yuan Mark Liao, (2023), "YOLOv7: Trainable Bag-of-Freebies Sets New State-of-the-art for Real-Time Object Detectors," *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023.
- Chien-Yao Wang, Hong-Yuan Mark Liao, and I-Hau Yeh, "Designing Network Design Strategies Through Gradient Path Analysis," *Journal of Information Science and Engineering (JISE)*, 2023.



簡評:

王建堯博士以創新神經網路設計與表徵學習方法,推動即時物件 偵測與邊緣 AI 發展,成果具突破性並享有國際領導地位。

簡歷:

王建堯博士於 2017 年畢業於國立中央大學資訊工程學系,隨即於中央研究院資訊科學研究所擔任博士後研究學者。2022 年夏季起王建堯博士以助研究員身份任職於中央研究院資訊科學研究所,並於2025 年升等為副研究員。

王建堯博士於中研院的研究團隊專注在「類神經網路架構設計與 表示學習」,主要研究成果為電腦視覺領域中的 (1) 類神經網路架構 設計、 (2) 統一表徵學習方法、以及 (3) 可信賴學習方法。

Chien-Yao Wang received the Doctor of Computer Science and Information Engineering from National Central University in 2017, and start the Post Doc position at Institute of Information, Academia Sinica. He joined Institute of Information, Academia Sinica as an Assistant Research Fellow from July 2022 and got promoted to Associate Research Fellow in July 2025.

Dr. Wang's research interests lie in the field of "Neural Network Architecture Design and Representation Learning". His main research achievements are 1. Neural Network Architecture Design, 2. Unified Representation Learning Method, and 3. Trustworthy Learning Method in the field of computer vision.



代表作簡介:

王建堯博士在「類神經網路架構設計與表示學習」的研究成果在類神經網路架構設計理論以及表示學習理論上建立了新的觀點並於即時電腦視覺領域驗證了其通用性與強健性。代表著作與衍伸作品顯示了極大的國際影響力,開源程式碼已產生上萬應用,並被引用總計超過五萬次。未來也將有潛力發展低功耗且即時的生成式 AI 與通用 AI 模型。

Dr. Wang's research achievements on "Neural Network Architecture Design and Representation Learning" established new perspectives on neural network architecture design theory and representation learning theory and verified its versatility and robustness in the field of real-time computer vision. Representative publications and derivative works have shown great international impact. The open source code has generated tens of thousands of applications, and the publications have been cited a total of more than 50,000 times. In the future, there will also be the potential to develop low-power and real-time generative AI models and generalist AI models.

得獎感言:

感謝中研院年輕學者研究成果獎評審委員的肯定,讓我獲得這份 莫大的殊榮。千里馬難尋,但更要感謝我研究歷程中幾位師長用他們 的千里眼在茫茫牛馬群中找到了我。感謝中央研究院資訊科學研究所 的廖弘源特聘研究員在科學研究這條路上的賞識與指引,也感謝國立



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I am deeply grateful to the review committee of the Academia Sinica Early-Career Investigator Research Achievement Award for recognizing my talent and bestowing upon me this immense honor. While exceptional talent is rare, I am even more grateful to the mentors who, through countless opportunities, found me amidst the vast sea of research. I thank Professor Hung-Yuan Mark Liao, Distinguished Research Fellow at the Institute of Information Science, Academia Sinica, for his appreciation and guidance on my research journey. I also thank Professors Jia-Ching Wang and Po-Chyi Su of the Department of Computer Science and Information Engineering at National Central University for their support throughout my studies, which has given me the opportunity to share my research findings today. Furthermore, I would like to thank my beloved family for their unwavering support and companionship. Thank you to my wife and child for their understanding, thank you to my parents for their guidance, and thank you to my parents-in-law for their support, which has allowed me to achieve a balance and success in both my life and research.