

## 陈艺芳简介



### 个人简述

陈艺芳、女、校聘副教授。2020年毕业于中山大学，获工学博士学位。2019/09 - 2020/09，获国家留学基金委资助在加拿大英属哥伦比亚大学（University of British Columbia, UBC）访学。

目前主要从事多媒体信息安全方面的研究，包括人工智能和深度学习新方法及其在数字媒体（图像、视频等）信息取证中的应用研究。在 *IEEE Journal of Selected Topics in Signal Processing* 权威期刊及 *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*、*ACM conference on Information Hiding and Multimedia Security (IH&MMSec)*、*IEEE International Conference on Multimedia and Expo (ICME)* 等本领域重要国际会议上发表多篇学术论文。其中，期刊论文“‘Automated Design of Neural Network Architectures with Reinforcement Learning for Detection of Global Manipulations,’ *IEEE Journal of Selected Topics in Signal Processing*, vol. 14, no. 5, Aug. 2020.”获得第一届中国图像图形学会中国媒体取证与安全大会最佳论文报告奖。现主持国家自然科学基金青年基金项目一项，广州市科技局项目一项，在研项目经费 60 余万元。

### 主要研究领域

从事多媒体信息安全方面的研究，包括人工智能和深度学习新方法及其在数字媒体（图像、视频等）信息取证中的应用研究。

### 学术兼职(或社会兼职)

IEEE *Signal Processing Letter*、*ICASSP*、*IH&MMSec* 等国际期刊与会议的审稿人。

### 主要荣誉

期刊论文“‘Automated Design of Neural Network Architectures with Reinforcement Learning for Detection of Global Manipulations,’ *IEEE Journal of Selected Topics in Signal Processing*, vol. 14, no. 5, Aug. 2020.”获得第一届中国图像图形学会中国媒体取证与安全大会最佳论文报告奖。

### 主要成果

- [1] **Y. Chen**, Z. Wang, Z. J. Wang, X. Kang, “Automated Design of Neural Network Architectures with Reinforcement Learning for Detection of Global Manipulations”, *IEEE Journal of Selected Topics in Signal Processing*, vol. 14, no. 5, pp. 997-1011, Aug. 2020. (JCR一区期刊, Top 期刊)
- [2] **Y. Chen**, X. Kang, Y. Q. Shi, Z. J. Wang, “A Multi-Purpose Image Forensic Method Using Densely Connected Convolutional Neural Networks”, *Journal of Real-Time Image Processing*, vol.16, no. 3, pp. 725-740, Jun. 2019. (JCR二区期刊)
- [3] **Y. Chen**, Z. Lyu, X. Kang, Z. J. Wang, “A Rotation-Invariant Convolutional Neural Network for Image Enhancement Forensics”, in *Proc. of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Calgary, Canada, 2018, pp. 2111–2115. (CCF B类)
- [4] Y. Wei, **Y. Chen**, X. Kang, Z. J. Wang, L. Xiao, “Auto-Generating Neural Networks with Reinforcement Learning for Multi-Purpose Image Forensics”, in *Proc. of IEEE International Conference on Multimedia and Expo 2020 (ICME 2020)*, London, UK, 2020-7-06 to 2020-7-10. (CCF B类)
- [5] **Y. Chen**, X. Kang, Z. J. Wang, Q. Zhang, "Densely Connected Convolutional Neural Network for Multi-purpose Image Forensics under Anti-forensic Attacks", in *Proc. of*

*ACM Workshop on Information Hiding and Multimedia Security (IH&MMSec'18)*, Innsbruck, Austria, 2018, pp. 91–96. (本领域顶级会议)

- [6] Y. Zhan, **Y. Chen**, Q. Zhang, and X. Kang, “Image Forensics Based on Transfer Learning and Convolutional Neural Network”, in *Proc. of ACM conference on Information Hiding and Multimedia Security (IH&MMSec ' 17)*, Philadelphia, PA, USA, 2017, pp. 165–170. (本领域顶级会议)
- [7] **Y. Chen**, F. Peng, X. Kang, Z. J. Wang, “Depthwise Separable Convolutional Neural Network for Image Forensics”, in *Proc. of 2019 IEEE Visual Communications and Image Processing (VCIP)*, Sydney, Australia, 2019, pp.1-4.

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