

# 涂云斌

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## ⚙️ 研究兴趣

- 视觉-语言学习：视频语义描述，视觉变化语义描述，图像语义描述，多模态机器翻译
- 多媒体内容分析：多模态融合，基于文本的视频检索

## 🎓 教育经历

中国科学院大学	2022.9 – 至今
工学博士    计算机应用技术	中国北京
<ul style="list-style-type: none"><li>• 导师：苏荔教授</li><li>• 合作导师：李亮副研究员（中科院计算所）</li></ul>	
昆明理工大学	2019.09 – 2022.06
工学硕士    模式识别与智能系统	中国昆明
<ul style="list-style-type: none"><li>• 导师：余正涛教授</li></ul>	
杭州电子科技大学	2014.09 – 2018.06
工学学士    自动化	中国杭州
<ul style="list-style-type: none"><li>• 导师：颜成钢教授</li></ul>	

## 📁 实习经历

中科院计算所	2020.11 – 2022.08
视觉信息处理与学习组	中国北京
合作导师：李亮副研究员	
<ul style="list-style-type: none"><li>• 基于文本的视频检索，视频语义描述，视觉变化语义描述</li></ul>	
清华大学	2018.03 – 2018.06
深圳国际研究生院	中国深圳
合作导师：王兴政副教授	
<ul style="list-style-type: none"><li>• 视频语义描述</li></ul>	
中科院计算所	2016.06 – 2017.06
前瞻实验室	中国北京
合作导师：张曦珊博士	
<ul style="list-style-type: none"><li>• 视频语义描述</li></ul>	

## ♥️ 获奖情况

中国科学院大学三好学生	2023/2024
昆明理工大学优秀硕士学位论文	2022
云南省三好学生	2021/2022
研究生国家奖学金	2021
国际会议ACM MM Student Travel Grant	2017

## 👥 学术服务

- 国际期刊审稿人：IEEE TIP (IF:10.6), IEEE TCSVT (IF:8.4), IEEE TETCI (IF:5.3), Artificial Intelligence Review (IF:12.0), Neurocomputing (IF:6.0)
- 国际会议审稿人：AAAI 2023/2024 (CCF-A), ACL 2023/2024 (CCF-A), EMNLP 2023 (CCF-B), ACM MM 2023/2024 (CCF-A)

- 谷歌学术：被引605次，h-index = 9，i10-index = 8，1篇近5年全球高被引论文（2024年5月18日更新）
- [个人谷歌学术主页](#)

1. Yunbin Tu, Liang Li, Li Su, Zheng-Jun Zha, Chenggang Yan Qingming Huang. Context-aware Difference Distilling for Multi-change Captioning, **ACL** (main conference, long paper), 2024 (CCF A).
2. Shengbin Yue, Yunbin Tu, Liang Li, Shengxiang Gao, Zhengtao Yu. Multi-grained Representation Aggregating Transformer with Gating Cycle for Change Captioning, **TOMM**, 2024 (Early Access, 中科院三区, IF:5.1).
3. Yunbin Tu, Liang Li, Li Su, Zheng-Jun Zha, Qingming Huang. SMART: Syntax-calibrated Multi-Aspect Relation Transformer for Change Captioning, **TPAMI**, 2024 (Early Access, 中科院一区TOP, IF:23.6).
4. Yunbin Tu, Liang Li, Li Su, Zheng-Jun Zha, Chenggang Yan, Qingming Huang. Self-supervised Cross-view Representation Reconstruction for Change Captioning, **ICCV**, 2023 (CCF-A).
5. Yunbin Tu, Liang Li, Li Su, Junping Du, Ke Lu, Qingming Huang, Viewpoint-Adaptive Representation Disentanglement Network for Change Captioning, **IEEE Transactions on Image Processing (TIP)**, 2023 (中科院一区TOP, IF:10.6) .
6. Yunbin Tu, Liang Li, Li Su, Ke Lu, Qingming Huang, Neighborhood Contrastive Transformer for Change Captioning, **IEEE Transactions on Multimedia (TMM)**, 2023 (中科院一区TOP, IF:7.3).
7. Yunbin Tu, Chang Zhou, Junjun Guo, Huafeng Li, Shengxiang Gao, Zhengtao Yu, Relation-aware attention for video captioning via graph learning, **Pattern Recognition (PR)**, 2023 (中科院一区TOP, IF:8.0).
8. Shengbin Yue, Yunbin Tu, Liang Li, Ying Yang, Shengxiang Gao, Zhengtao Yu, I3N: Intra- and Inter-representation Interaction Network for Change Captioning, **IEEE Transactions on Multimedia (TMM)**, 2023 (中科院一区TOP, IF:7.3).
9. Yunbin Tu, Liang Li, Li Su, Shengxiang Gao, Chenggang Yan, Zhengjun Zha, Zhengtao Yu, Qingming Huang, I<sup>2</sup>Transformer: Intra- and Inter-relation Embedding Transformer for TV Show Captioning, **IEEE Transactions on Image Processing (TIP)**, 2022 (中科院一区TOP, IF:10.6).
10. Liang Li, Xingyu Gao, Jincan Deng, Yunbin Tu, Zhengjun Zha, Qingming Huang, Long Short-Term Relation Transformer with Global Gating for Video Captioning, **IEEE Transactions on Image Processing (TIP)**, 2022 (中科院一区TOP, IF:10.6).
11. Gaoxiang Cong, Liang Li, Zhenhuan Liu, Yunbin Tu, Weijun Qin, Shenyuan Zhang, Chengang Yan, Wenyu Wang, Bin Jiang: LS-GAN: Iterative Language-based Image Manipulation via Long and Short Term Consistency Reasoning, **ACM MM**, 2022 (CCF-A).
12. Yunbin Tu, Chang Zhou, Junjun Guo, Shengxiang Gao, Zhengtao Yu, Enhancing the Alignment between Target Words and Corresponding Frames for Video Captioning, **Pattern Recognition (PR)**, 2021 (中科院一区TOP, IF:8.0).
13. Yunbin Tu, Liang Li, Tingting Yao, Jiedong Lou, Shengxiang Gao, Zhengtao Yu, Chenggang Yan, Semantic Relation-aware Difference Representation Learning for Change Captioning, **Findings of ACL (Long)**, 2021 (CCF-A).
14. Yunbin Tu, Liang Li, Chenggang Yan, Shengxiang Gao, Zhengtao Yu, R<sup>3</sup>Net: Relation-embedded Representation Reconstruction Network for Change Captioning, **EMNLP (Long)**, 2021 (CCF-B).
15. Chengang Yan, Yunbin Tu, Xingzheng Wang, Yongbing Zhang, Xinhong Hao, Yongdong Zhang, Qionghai Dai, STAT: spatial-temporal attention mechanism for video captioning, **IEEE Transactions on Multimedia (TMM)**, 2019 (中科院一区TOP, IF:7.3).
16. Yunbin Tu, Xishan Zhang, Bingtao Liu, Chenggang Yan, Video Description with Spatial-Temporal Attention, **ACM MM**, 2017 (CCF-A).
17. 颜成钢, 涂云斌, 冯欣乐, 李兵, 楼杰栋, 彭冬亮, 张勇东, 王建中, 一种基于语义信息引导的视频内容描述方法: 发明专利 (公开号 (授权): CN107038221B)

18. 颜成钢, 涂云斌, 张曦珊, 一种利用时空注意力模型的视频内容描述方法: 发明专利 ( 公开号 ( 授权 ): CN107066973B )