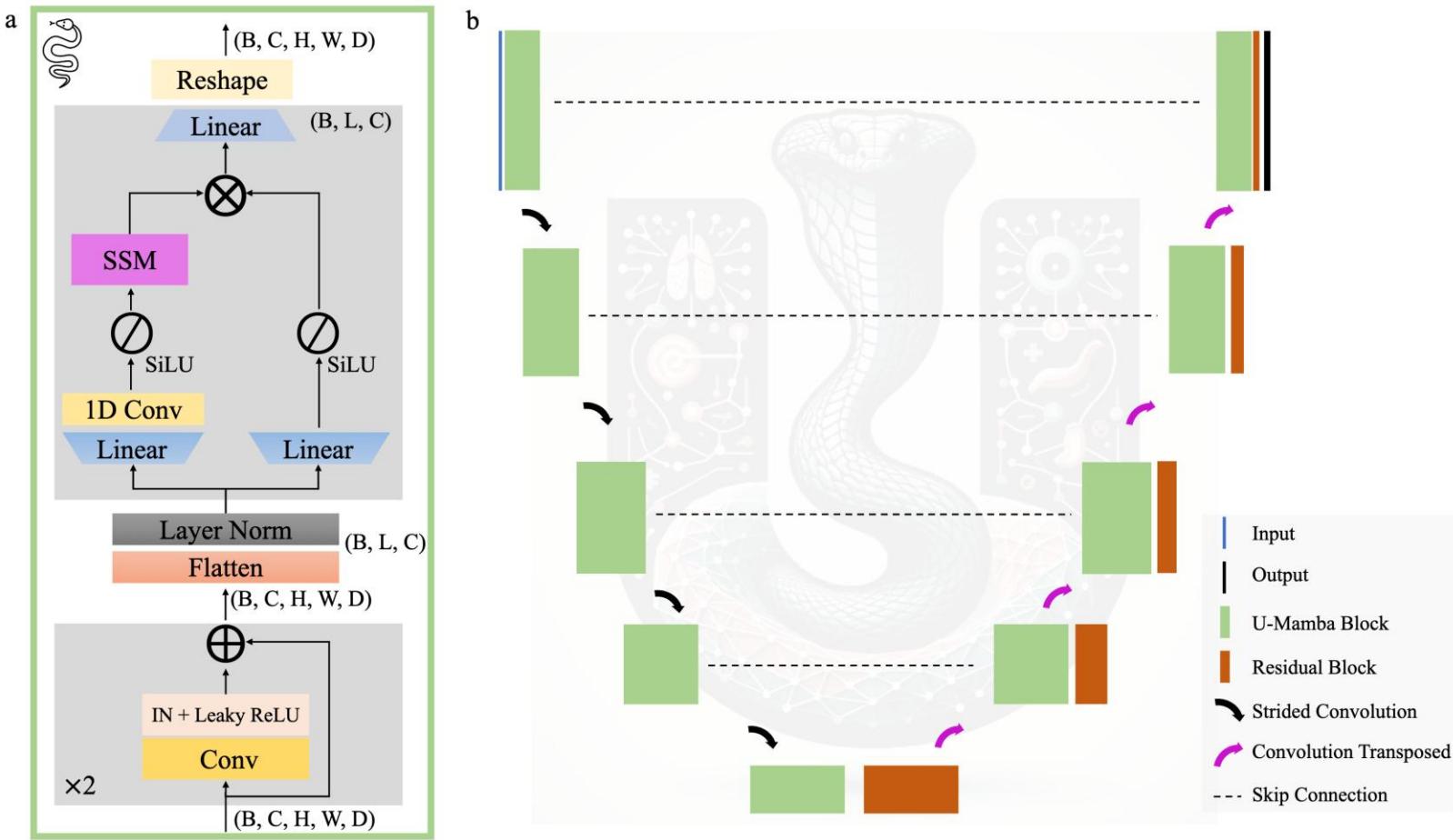


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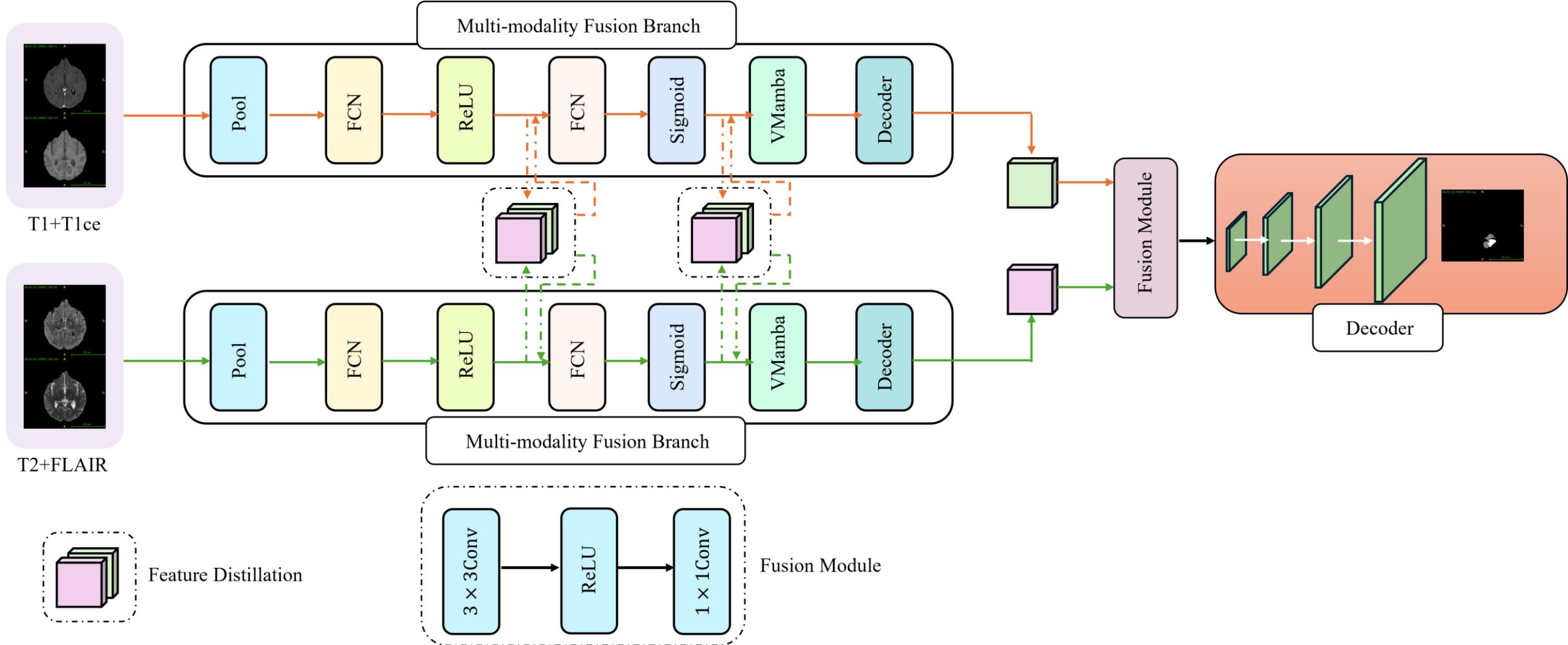


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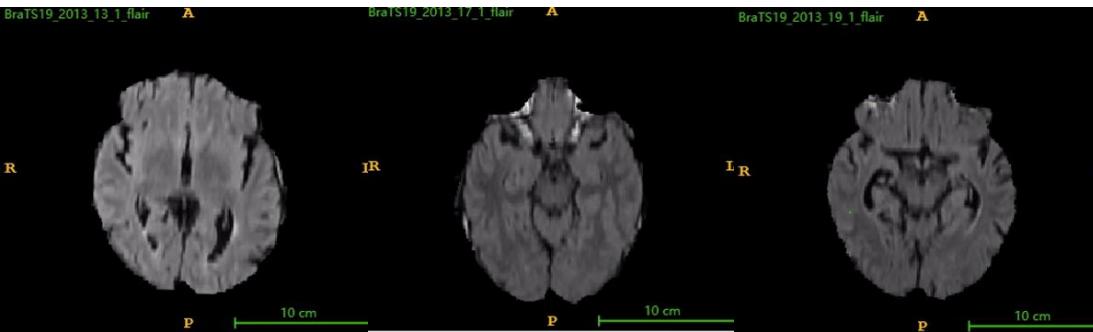
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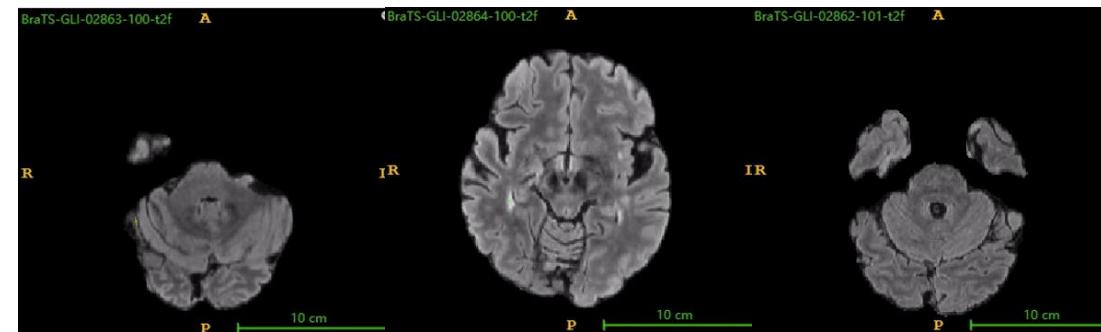
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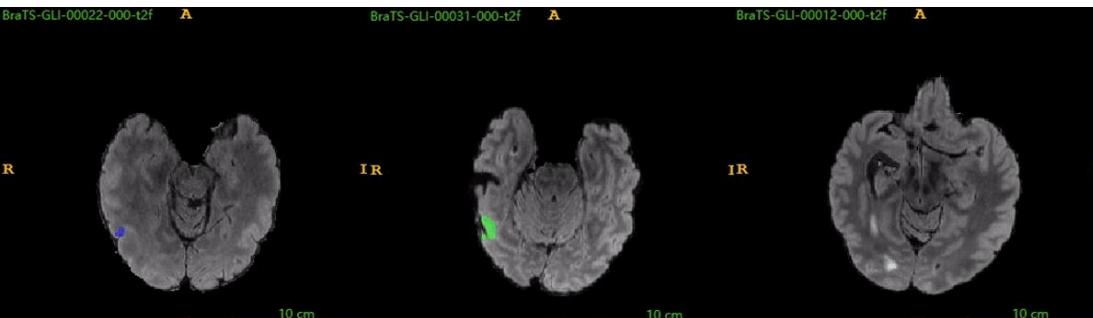
| Dataset | Dice \uparrow | | | | HD95(mm) \downarrow | | | |
|-----------|---------------------|---------------------|---------------------|---------------------|-----------------------|----------------------|----------------------|----------------------|
| | WT | TC | ET | Mean | WT | TC | ET | Mean |
| BraTS2019 | 0.9087 ± 0.0722 | 0.8266 ± 0.1813 | 0.6899 ± 0.2941 | 0.8084 ± 0.1825 | 4.4106 ± 5.0706 | 6.0109 ± 6.5331 | 5.4939 ± 7.6745 | 5.3051 ± 6.4261 |
| BraTS2023 | 0.9384 ± 0.0591 | 0.9119 ± 0.1357 | 0.8504 ± 0.1958 | 0.9002 ± 0.1302 | 3.7357 ± 7.2066 | 4.2853 ± 9.2681 | 3.6901 ± 8.4098 | 3.9037 ± 8.2948 |
| BraTS2024 | 0.8617 ± 0.0949 | 0.7693 ± 0.2169 | 0.5522 ± 0.3824 | 0.7277 ± 0.2314 | 5.8670 ± 11.1514 | 9.0651 ± 13.1882 | 6.9414 ± 10.5994 | 7.2912 ± 11.6463 |



BraTS2019



BraTS2024



BraTS2023

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multi-modality medical image fusion

[HTML] Multi-modality medical image fusion using convolutional neural network and contrast pyramid
K.Wang, M.Zheng, H.Wei, G.Qi, Y.Li - Sensors, 2020 - mdpi.com

[HTML] A novel dictionary learning approach for multi-modality medical image fusion
Z.Zhu, Y.Chai, H.Yin, Y.Liu, Z.Liu - Neurocomputing, 2016 - Elsevier

[PDF] Clustering based multi-modality medical image fusion
R.Dhasundiyal, A.Tripathi, K.Joshi - Journal of Physics, 2020 - iopscience.iop.org

[PDF] Latest trends in multi-modality medical image fusion: A generic review
K.Joshi, M.Kumar, A.Tripathi, A.Kumar, J.Sehgal... - Rising Threats in Expert..., 2022 - Springer

[PDF] The application of wavelet transform to multi-modality medical image fusion
A.Wang, H.Sun, Y.Guan - 2006 IEEE International Conference..., 2006 - ieeexplore.ieee.org

[PDF] Multi-modality medical image fusion technique using multi-objective differential evolution based deep neural networks
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1 Asymmetric Adaptive Heterogeneous Network for Multi-Modality Medical Image Segmentation
Zheng, Sh.; Ye, X.; ...; Zhao, Y. Apr 2025 | IEEE TRANSACTIONS ON MEDICAL IMAGING | SCIE TOP | IF 9.8 | 44(4), pp.1836-1852 | Enriched Cited References | Existing studies of multi-modality medical image segmentation tend to aggregate all modalities without discrimination and employ multiple symmetric encoders or decoders for feature extraction and fusion. They often overlook the different contributions to visual representation and intelligent decisions among multi-modality images. Mot... Show more | Related records

2 Evidence modeling for reliability learning and interpretable decision-making under multi-modality medical image segmentation
...

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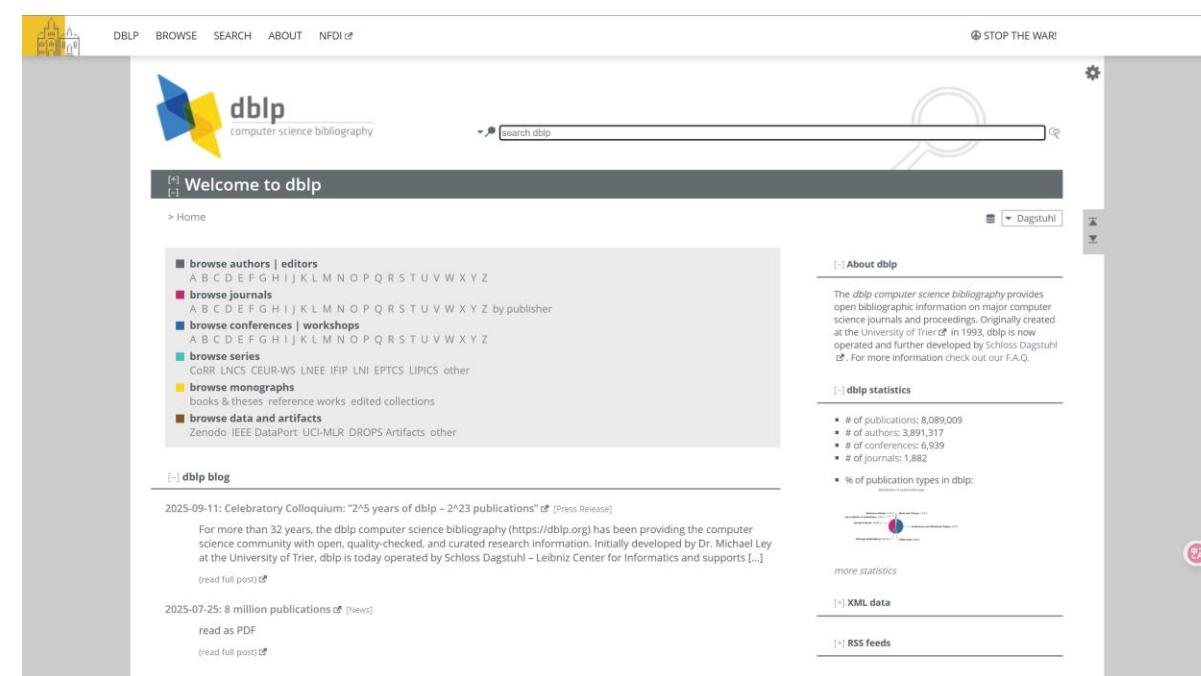


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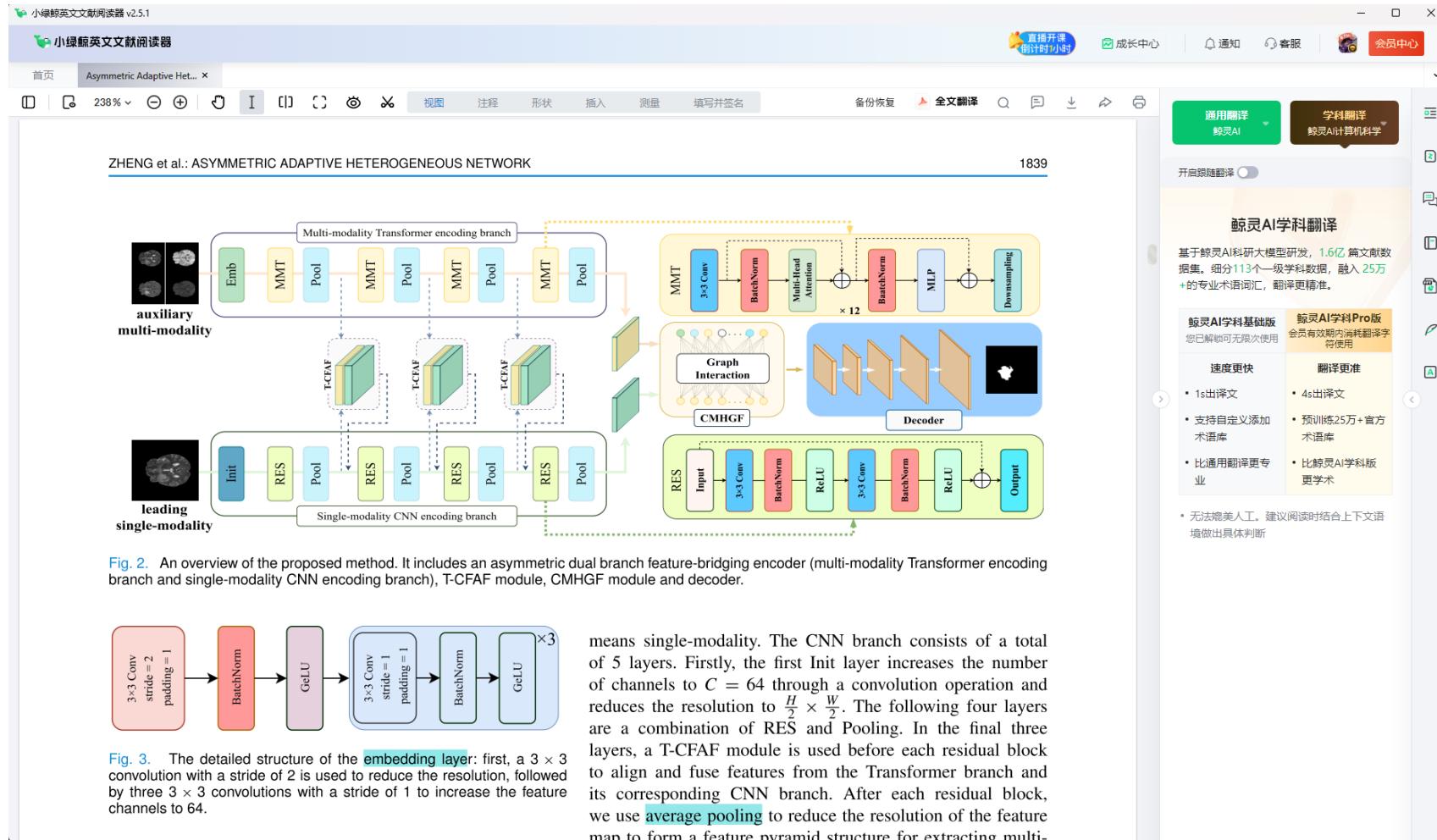
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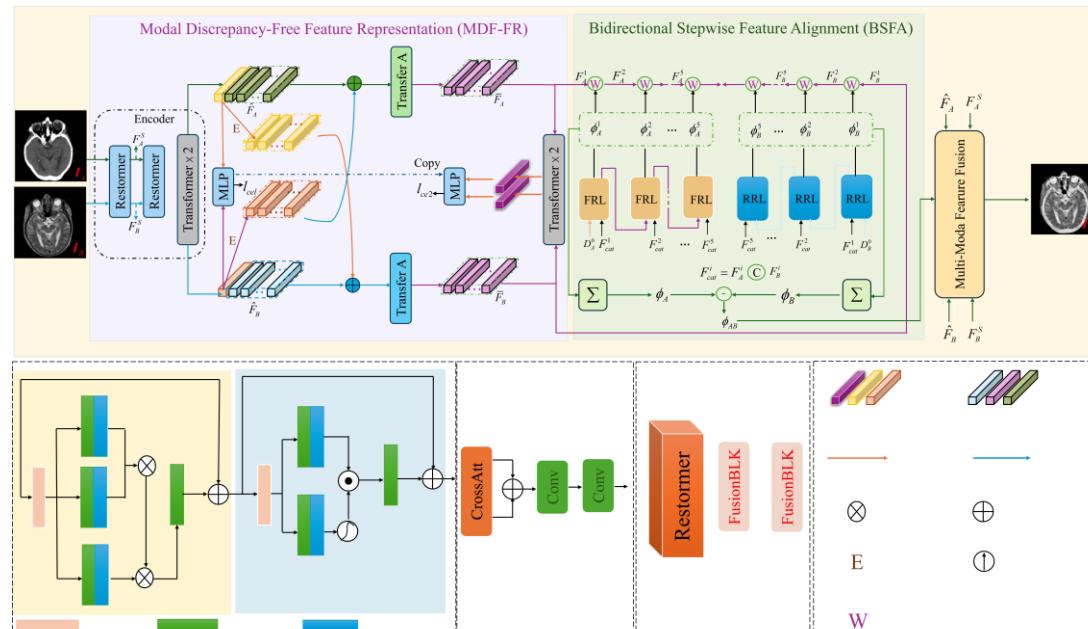


➤ 编程与开发

Github、Python、Pycharm、VS Code

➤ 论文写作与画图、数据分析

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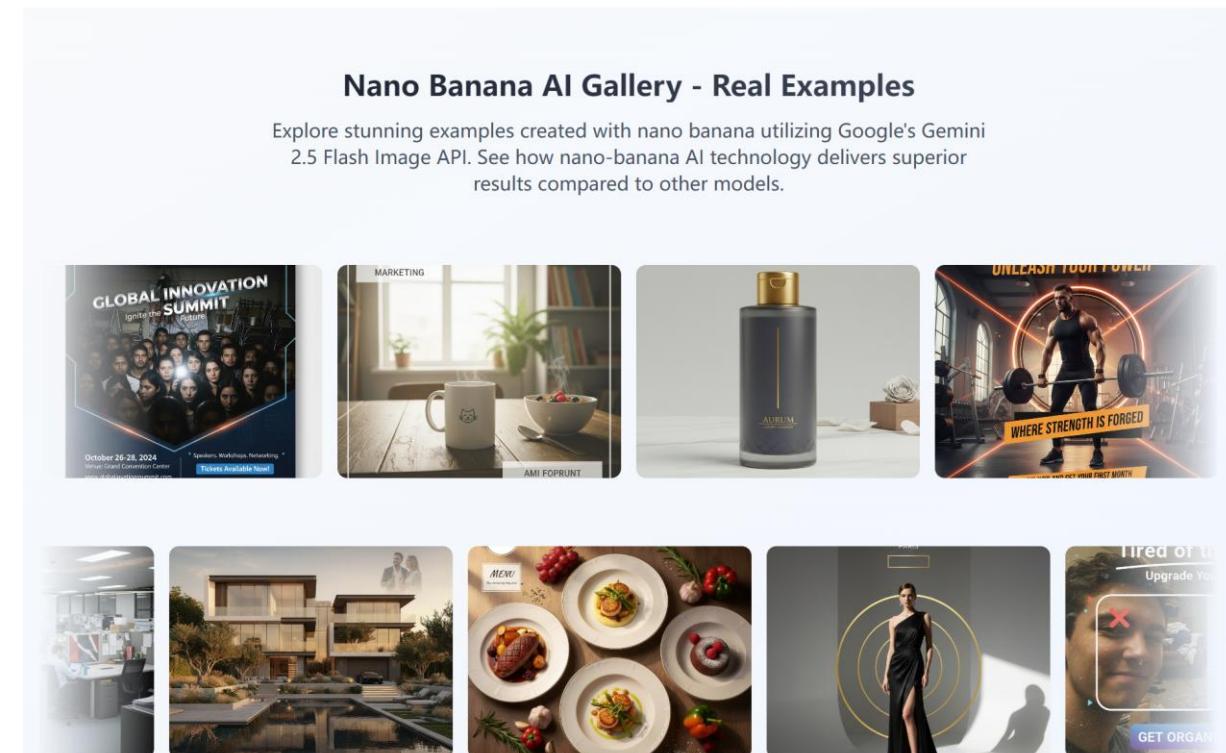
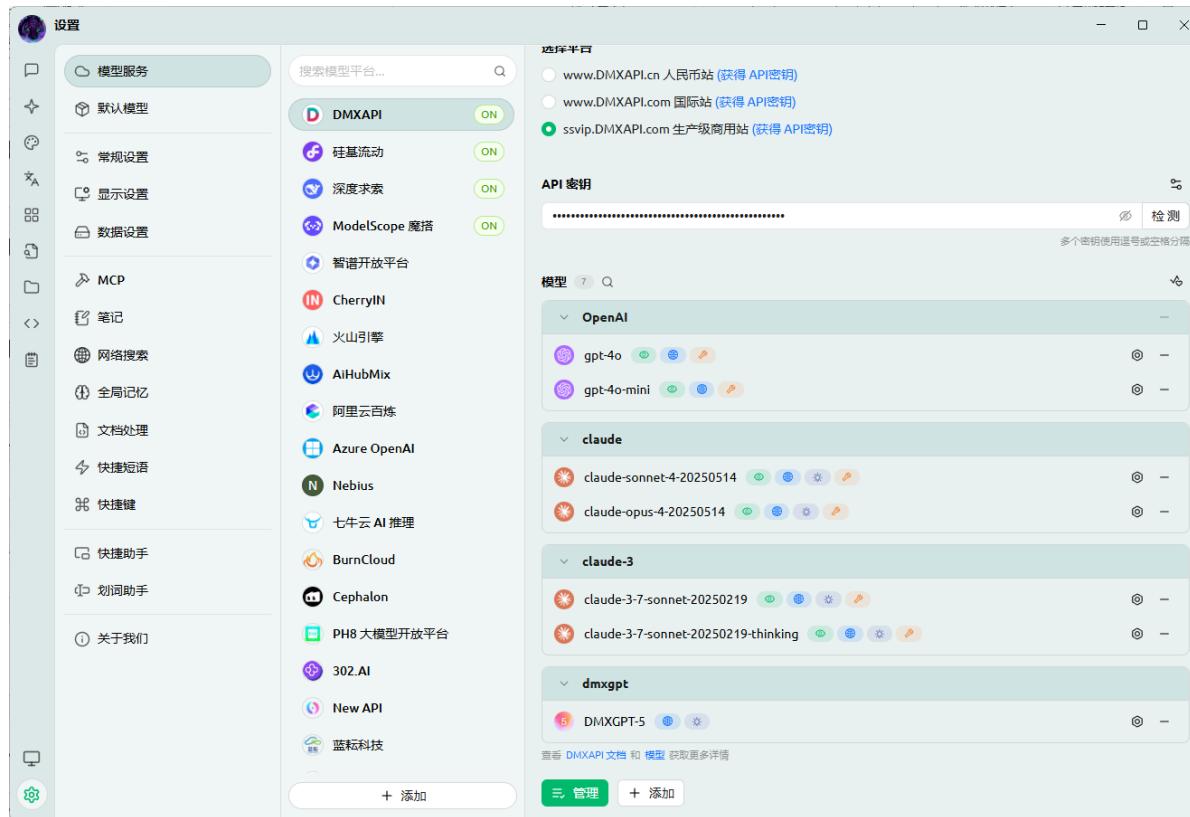


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README

424 journal={Artificial Intelligence Review},
425 volume={58},
426 numbers={5},
427 pages={154},
428 year={2025},
429 publisher={Springer}
430 }
431 @article{jehanzai2023robust,
432 title={A robust image segmentation and synthesis pipeline for histopathology},
433 author={Jehanzai, Muhammad and Almaliglu, Yasin and Oztoruk, Kutsev Bengisu and
Williamson, Drew PK and Abdullah, Talha and Basak, Kayhan and Demir, Derya and
Kesenci, Ayten and Zafar, Kashif and Turan, Mehmet},
434 journal={Medical Image Analysis},
435 volume={99},
436 pages={103344},
437 year={2025},
438 publisher={Elsevier}
439 }
440 @article{khan2023survey,
441 title={A survey of the vision transformers and their CNN-transformer based variants},
442 author={Khan, Asifullah and Rauf, Zunaira and Sohail, Anabia and Khan, Abdul Rehman
and Asif, Hifsa and Asif, Asqa and Farooq, Umair},
443 journal={Artificial Intelligence Review},
444 volume={56},
445 number={Suppl. 3},
446 pages={2937--2970},
447 year={2023},
448 publisher={Springer}
449 }
450 @inproceedings{zhang2021transfuse,
451 title={Transfuse: Fusing transformers and cnns for medical image segmentation},
452 author={Zhang, Yundong and Liu, Huige and Hu, Qiang},
453 booktitle={Medical image computing and computer assisted intervention—MICCAI 2021:
24th international conference, Strasbourg, France, September 27–October 1, 2021,
proceedings, Part I 24},
454 pages={14–24},
455 year={2021},
456 organization={Springer}
457 }
458 @inproceedings{xie2022ictr,
459 title={Efficiently bridging cnn and transformer for 3d medical image
segmentation},
460 author={Xia, Yutong and Zhang, Jianpeng and Shen, Chunhua and Xia, Yong},
461 booktitle={Medical Image Computing and Computer Assisted Intervention—MICCAI 2021:
24th International Conference, Strasbourg, France, September 27–October 1, 2021,
proceedings, Part I 24},
462 pages={14–24},
463 year={2021},
464 organization={Springer}
465 }
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Multi-modality medical image fusion by edge supervising and multi-scale attention features extraction: W. Mei et al.

W Mei, K He, D Xu, S Xie, Y Zhou - The Journal of Supercomputing, 2025 - Springer
... images such as SPECT and PET typically suffer from low clarity, directly fusing them without proper processing may obscure texture details in the resulting image... medical image fusion, ...

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