

BiX-NAS: Searching Efficient Bi-directional Architecture for Medical Image Segmentation

Xinyi Wang^{1,*}, Tiange Xiang^{1,*}, Chaoyi Zhang¹, Yang Song², Dongnan Liu¹,
Heng Huang^{3,4}, and Weidong Cai¹

¹ School of Computer Science, University of Sydney, Australia

² School of Computer Science and Engineering, University of New South Wales,
Australia

³ Electrical and Computer Engineering, University of Pittsburgh, USA

⁴ JD Finance America Corporation, Mountain View, CA, USA

{xwan2191, txia7609, dliu5812}@uni.sydney.edu.au

{chaoyi.zhang, tom.cai}@sydney.edu.au

yang.song1@unsw.edu.au

henghuanghh@gmail.com

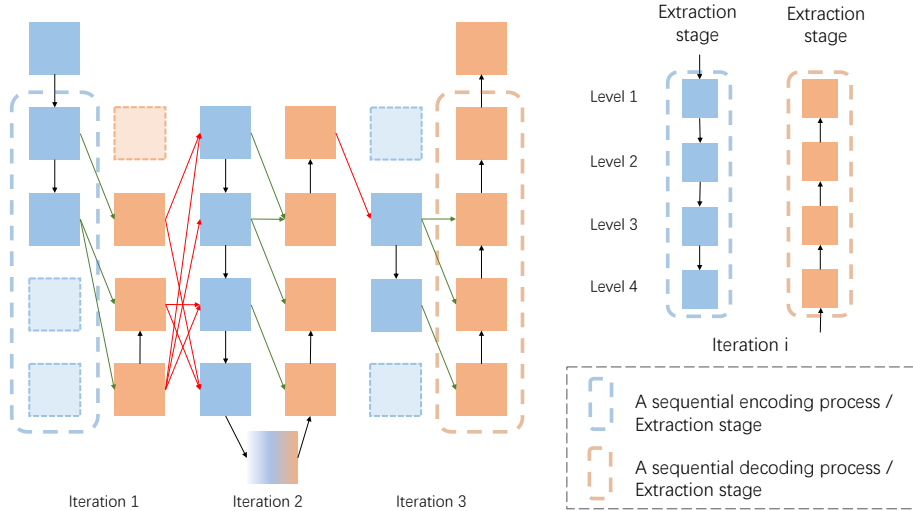


Fig. 1. Our searched BiX-Net with $L = 4$ levels and $T = 3$ iterations.

* Equal contributions.

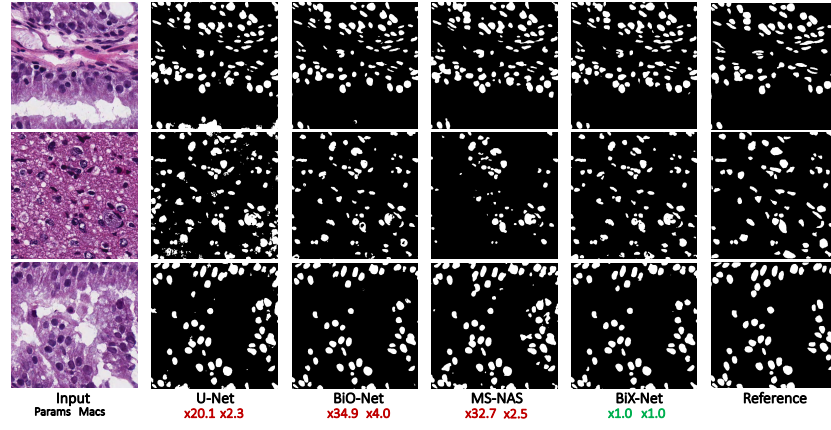


Fig. 2. Qualitative comparison on MoNuSeg.

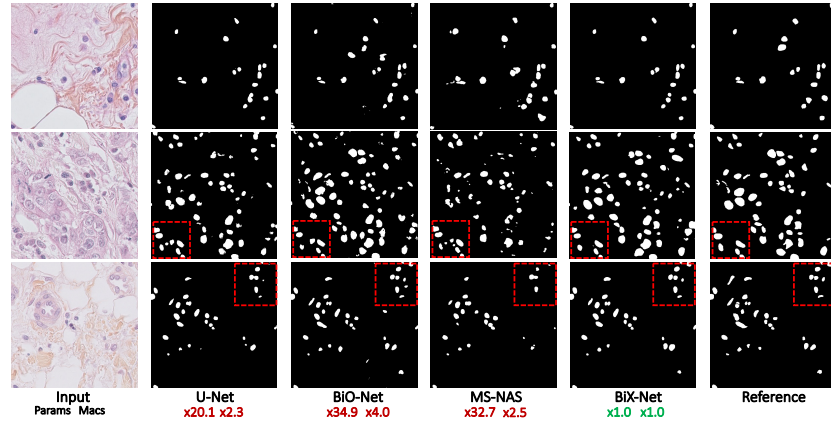


Fig. 3. Qualitative comparison on TNBC.

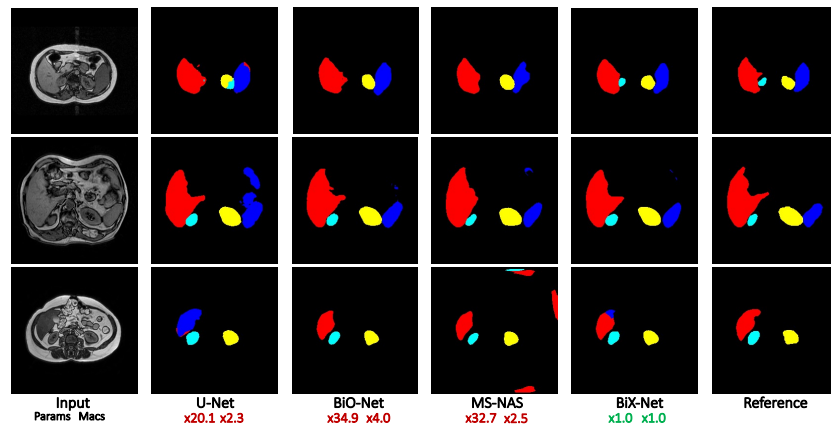


Fig. 4. Qualitative comparison on Multi-class organ segmentation.