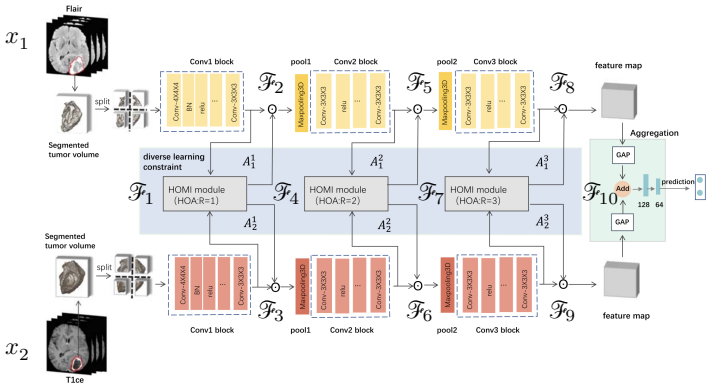
19 Hierarchical-order multimodal interaction fusion network for grading gliomas [19]

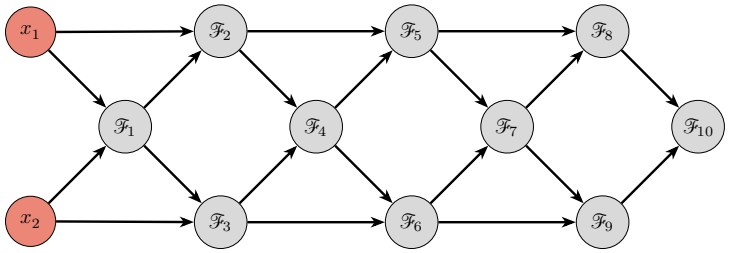
Model Architecture



Fusion Formulas

$\mathcal{F}_1 = \mathbb{S}(x_1^3, x_2^3)$	$\mathcal{F}_2 = \oplus(\mathcal{F}_1^2, x_1^3)$	$\mathcal{F}_3 = \oplus(\mathcal{F}_1^2, x_2^3)$	$\mathcal{F}_4 = \mathbb{S}(\mathcal{F}_2^3, \mathcal{F}_3^3)$	$\mathcal{F}_5 = \oplus(\mathcal{F}_2^3, \mathcal{F}_4^6)$
$\mathcal{F}_6 = \oplus(\mathcal{F}_3^3, \mathcal{F}_4^6)$	$\mathcal{F}_7 = \mathbb{S}(\mathcal{F}_5^3, \mathcal{F}_6^3)$	$\mathcal{F}_8 = \oplus(\mathcal{F}_5^3, \mathcal{F}_7^{11})$	$\mathcal{F}_9 = \oplus(\mathcal{F}_6^3, \mathcal{F}_7^{11})$	$\mathcal{F}_{10} = \boxplus(\mathcal{F}_8^0, \mathcal{F}_9^0)_{\rightarrow}$

Fusion Graph Representation



Fusion Analysis

How Many: Single or Multiple?	Multiple, 10
Number of Fusion Flows	1
Multiple Type Sudden, Gradual or Multi-Flow?	Sudden
|Sudden| Synchro?	Yes