

27 MMHFNet: Multi-modal and multi-layer hybrid fusion network for voice pathology detection [27]

Model Architecture		
<p>Speech Spectrograms x_1</p> <p>EGG Spectrograms x_2</p> <p>Horizontal concatenation \otimes</p>		
Fusion Formulas		
$\mathcal{F}_1 = \oplus(x_1^1, x_2^1)$ $\mathcal{F}_4 = \oplus(x_1^4, x_2^4)$	$\mathcal{F}_2 = \oplus(x_1^2, x_2^2)$ $\mathcal{F}_5 = \oplus(\mathcal{F}_1^3, \mathcal{F}_2^3, \mathcal{F}_3^3, \mathcal{F}_4^3) \rightarrow$	$\mathcal{F}_3 = \oplus(x_1^3, x_2^3)$
Fusion Graph Representation	Fusion Analysis	
	How Many: Single or Multiple?	Multiple, 5
	Number of Fusion Flows	4
	Multiple Type Sudden, Gradual or Multi-Flow?	Sudden
	Sudden Synchro?	Yes