40 Multimodal Hierarchical CNN Feature Fusion for Stress Detection [40]

Model Architecture

Fusion Formulas

$$\mathscr{F}_1 = \mathbb{S}(x_1^*, x_2^*) \qquad \mathscr{F}_2 = \boxplus(x_1^*, \mathscr{F}_1^1) \qquad \mathscr{F}_3 = \boxplus(x_2^*, \mathscr{F}_1^1) \qquad \mathscr{F}_4 = \boxplus(\mathscr{F}_2^2, \mathscr{F}_3^2)_{\rightarrow}$$

$\cdot^*$ stands for the concatenation of $\cdot^1, \cdot^2, \cdot^3, \cdot^4$

Fusion Graph Representation	Fusion Analysis	
	How Many: Single or Multiple?	Multiple, 4
	Number of Fusion Flows	1
	Multiple Type Sudden, Gradual or Multi-Flow?	Sudden
	|Sudden| Synchro?	Yes