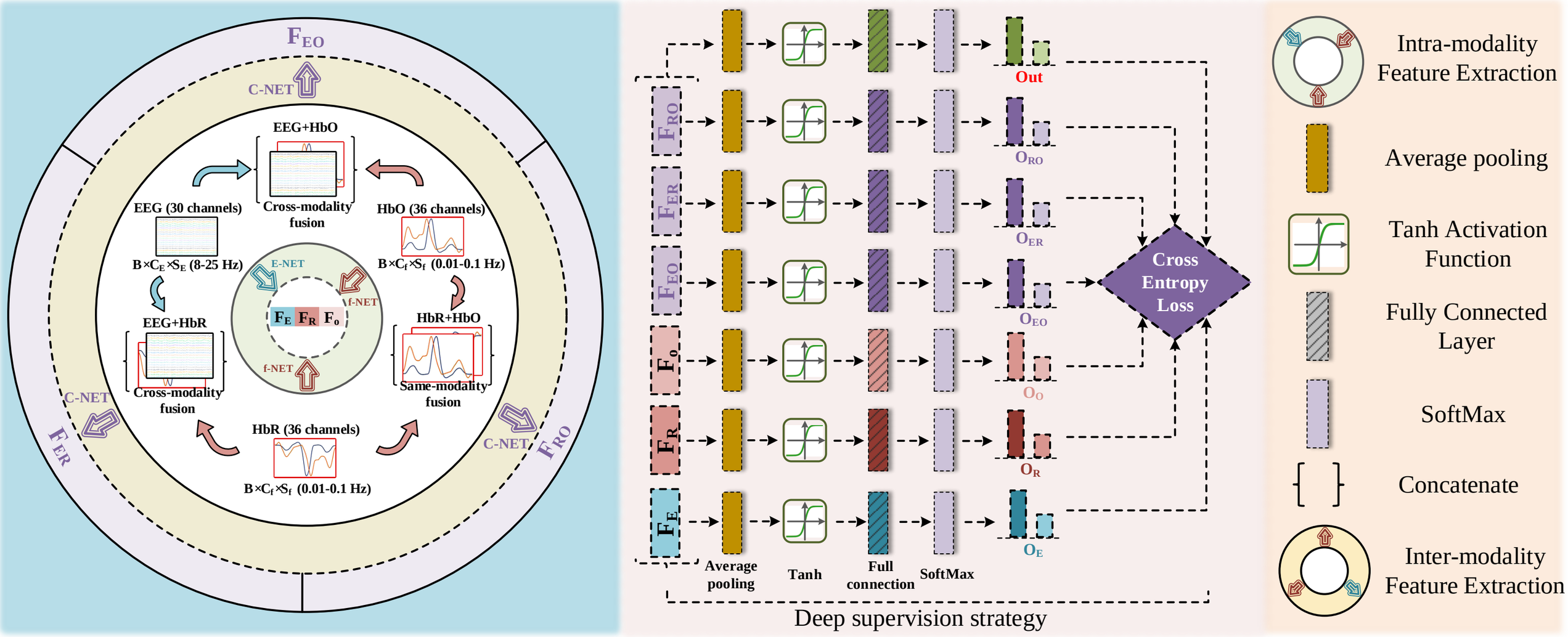
F_EO
C-NET
EEG+HbO
Cross-modality fusion
EEG (30 channels)
B×C_E×S_E (8-25 Hz)
HbO (36 channels)
B×C_f×S_f (0.01-0.1 Hz)
E-NET
f-NET
F_E F_R F_o
f-NET
EEG+HbR
Cross-modality fusion
HbR+HbO
Same-modality fusion
C-NET
F_ER
HbR (36 channels)
B×C_f×S_f (0.01-0.1 Hz)
C-NET
F_RO
F_RO
F_ER
F_EO
F_o
F_R
F_E
Out
O_RO
O_ER
O_EO
O_O
O_R
O_E
Cross Entropy Loss
Average pooling
Tanh
Full connection
SoftMax
Deep supervision strategy
Intra-modality Feature Extraction
Average pooling
Tanh Activation Function
Fully Connected Layer
SoftMax
Concatenate
Inter-modality Feature Extraction