

| Sensor modality | Methods | Post Processing Moving Average window length | AUC-ROC (%)  | Sensitivity (%) | Specificity (%) |
|-----------------|---------|--|--------------|-----------------|-----------------|
| BVP             | CNN     | 17   | 65.32        | 48.46           | 71.02           |
| HR              | CNN     | 9  | 58.50        | 57.62           | 53.45           |
| EDA             | CNN     | 9  | 53.31        | 42.81           | 62.73           |
| ACC             | CNN     | 17   | 62.89        | 38.91           | 77.00           |
| TEMP            | MLP     | 513  | 56.55        | 93.78           | 18.98           |
| ACC, BVP, HR    | CNN     | 17   | 66.01        | 44.07           | 76.29           |
| BVP, TEMP, ACC  | CNN+MLP | 17   | <b>66.35</b> | 57.27           | 63.98           |

**Table 1** – Average performance (evaluated with full test data on one second level) of detection models trained on individual modality data (rows 1-5) and multi-modality fusion data (rows 6, 7) with moving average based post processing and using patient-wise 5-fold cross validation. The best performing sensor and methods system (row 7) yields an Area Under Curve-Receiver Operating Characteristic (AUC-ROC) value of 66.35%.