

APPENDIX (Figure A1-Figure A14)

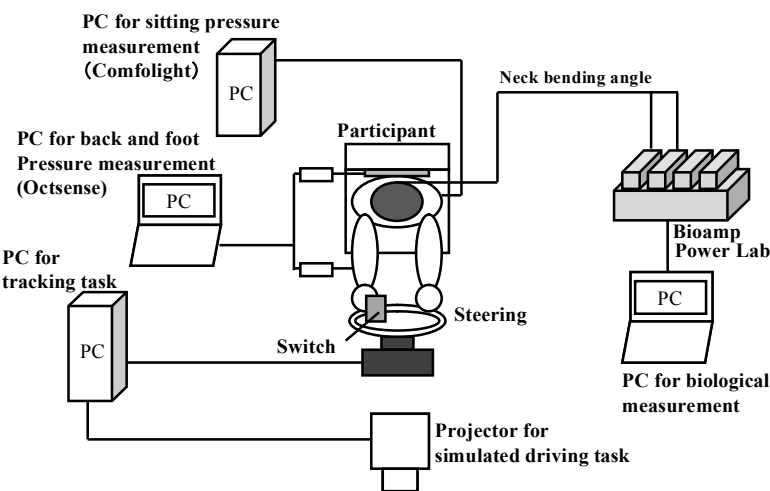


Figure A1 Outline of experimental system.

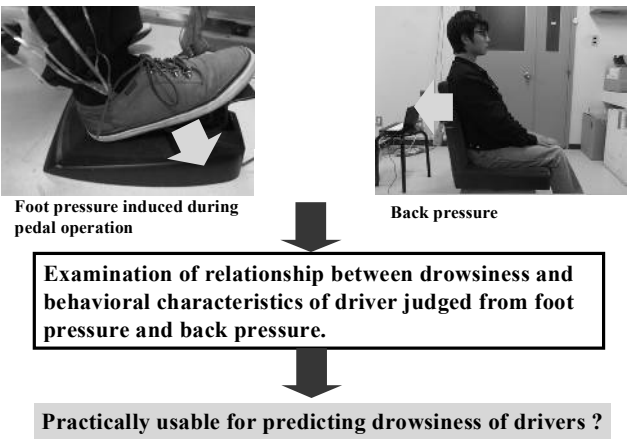


Figure A2 Foot (left) and back (right) pressure measurement.



Measurement of back pressure

Measurement of foot pressure

Figure A3 Setup for back (left) and foot (right) pressure measurement.

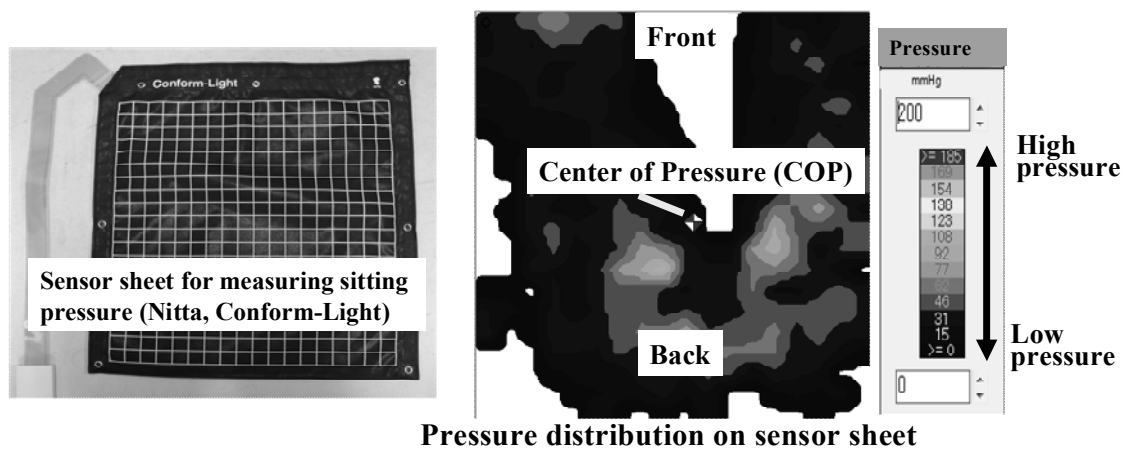
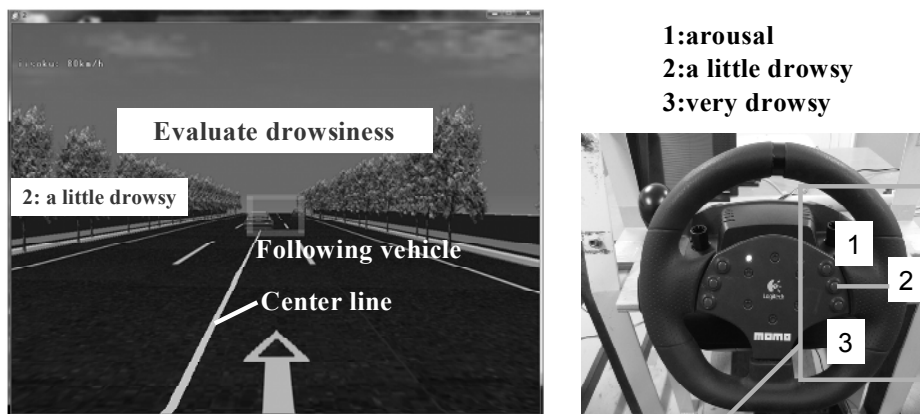


Figure A4 Apparatus for sitting pressure and COP measurements.



Button to be used for drowsiness evaluation

Figure A5 Display for simulated driving task and switches around steering wheel for evaluating subjective drowsiness.

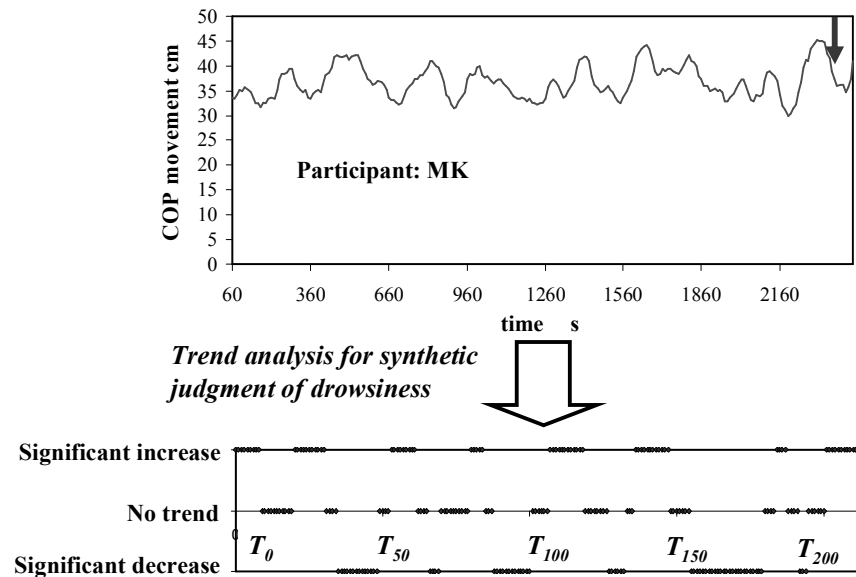


Figure A6 An example of trend analysis of COP movement, and resulting graphic summary of significant or non-significant trends for the whole analysis interval (Participant: MK). The downward arrow shows the point in time of virtual accident.

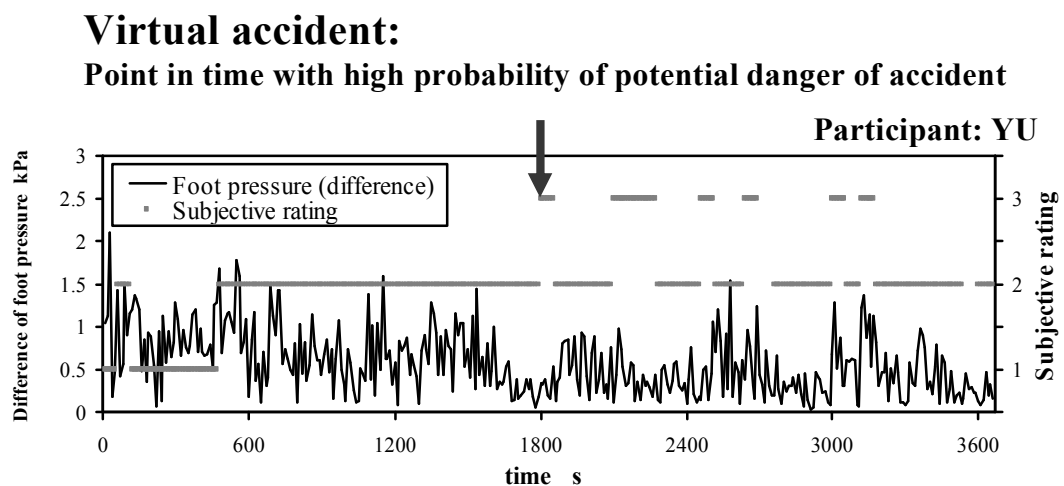


Figure A7 Time series of difference of foot pressure and subjective rating on drowsiness (Participant: YU). The downward arrow shows the point in time of virtual accident.

Virtual accident:

Point in time with high probability of potential danger of accident

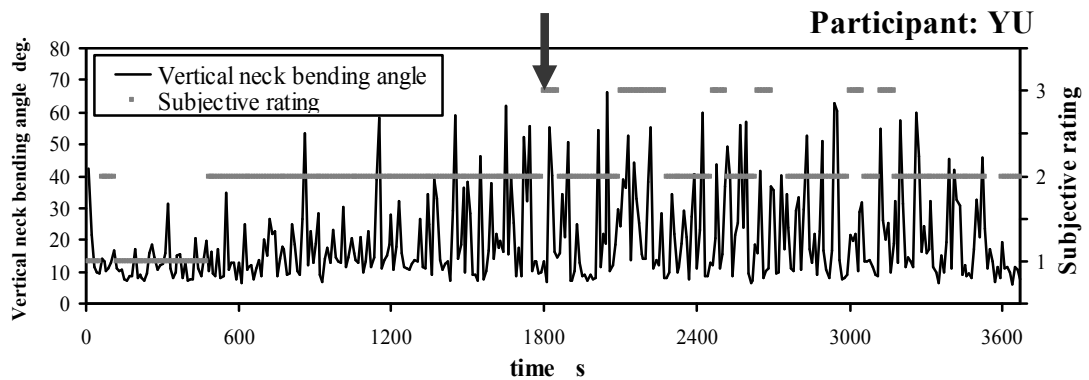


Figure A8 Time series of vertical bending angle and subjective rating on drowsiness (Participant: YU). The downward arrow shows the point in time of virtual accident.

Virtual accident:

Point in time with high probability of potential danger of accident

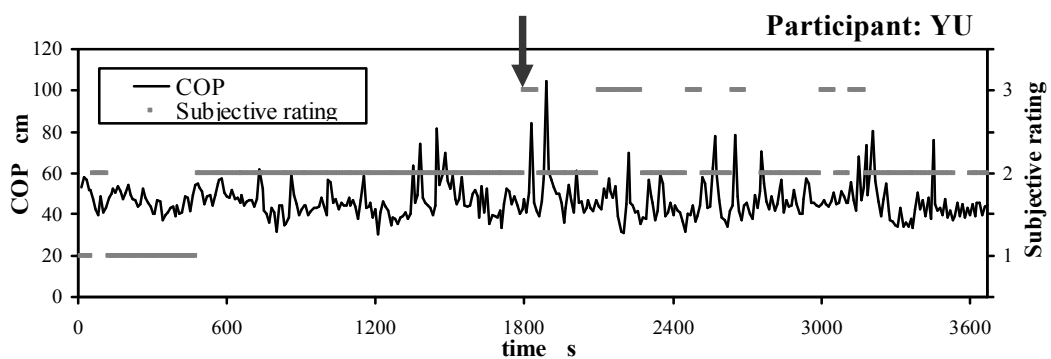


Figure A9 Time series of COP movement and subjective rating on drowsiness (Participant: YU). The downward arrow shows the point in time of virtual accident.

Virtual accident:

Point in time with high probability of potential danger of accident

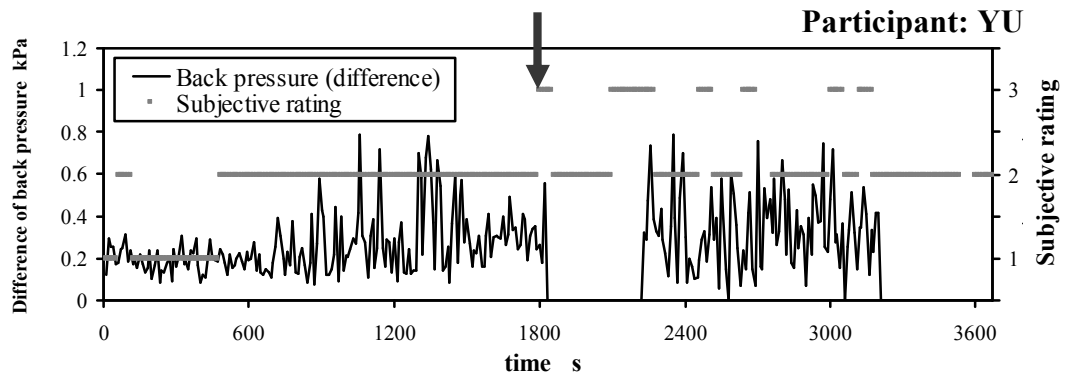


Figure A10 Time series of difference of back pressure and subjective rating on drowsiness (Participant: YU). The downward arrow shows the point in time of virtual accident.

Virtual accident:

Point in time with high probability of potential danger of accident

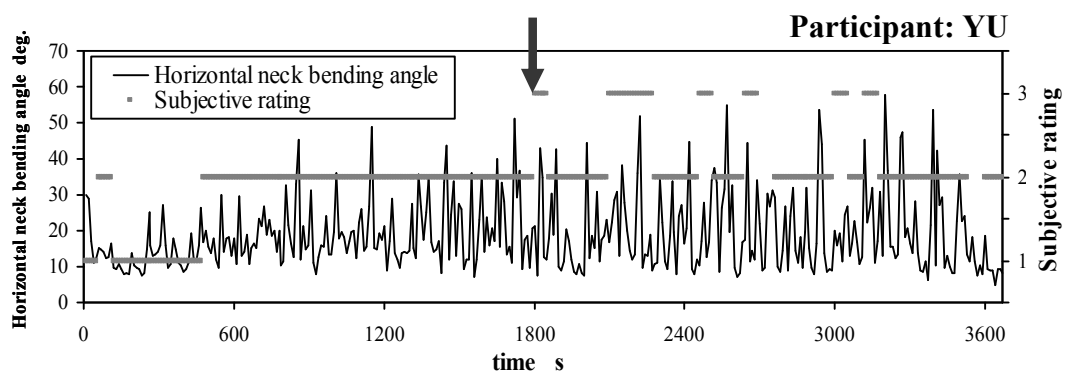


Figure A11 Time series of horizontal bending angle and subjective rating on drowsiness (Participant: YU). The downward arrow shows the point in time of virtual accident.

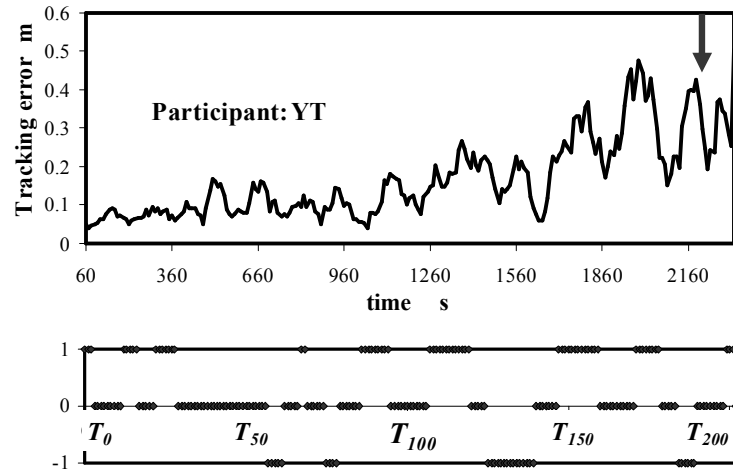


Figure A12 Trend analysis of tracking error, and resulting graphic summary of significant or non-significant trends for the whole analysis interval (Participant: YT). The downward arrow shows the point in time of virtual accident. 1:significant increase, 0:no trend, -1:significant decrease.

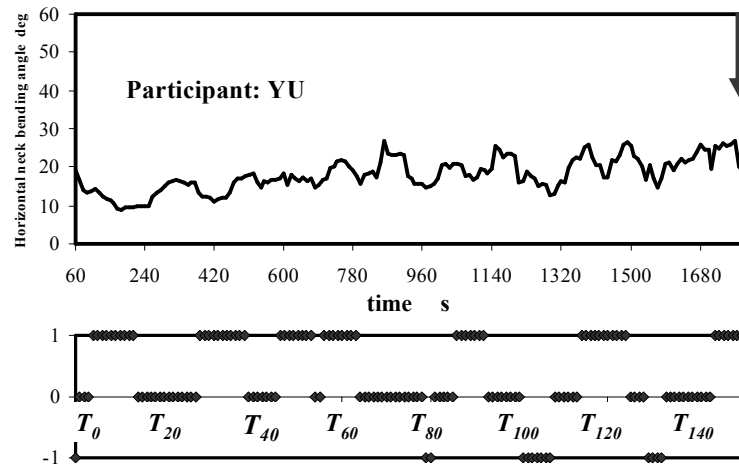


Figure A13 Trend analysis of horizontal bending angle, and resulting graphic summary of significant or non-significant trends for the whole analysis interval (Participant: YU). Downward arrow shows the point in time of virtual accident. 1:significant increase, 0:no trend, -1:significant decrease.

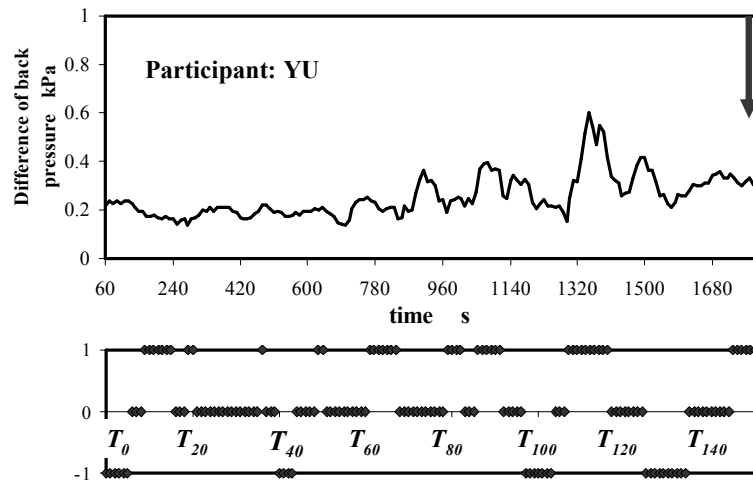


Figure A14 Trend analysis of difference of back pressure, and resulting graphic summary of significant or non-significant trends for the whole analysis interval (Participant: YU). The downward arrow shows the point in time of virtual accident. 1: significant increase, 0:no trend, -1:significant decrease.