Inferring Cognitive and Affective States from Biometric Data in Training: Literature Review

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Abstract

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***Key words****: cognitive states; affective states; pilot training; biometric data; EEG signals.*

# Introduction

# Background

## Training – CAE, McGill, Concordia

## Cognitive states – Concordia, UdeM, NRC

## Affective states – McGill, Concordia, NRC

# Cognitive and affective factors influencing training

1. Cognitive/affective factors influencing trainee performance -- Concordia
2. Difficulties with cognitive and affective states recognition during training – CAE, Concordia, other groups

# Framework for inferring trainee’s cognitive and affective states and related techniques

1. Experiment design and data collection – NRC, CAE, McGill, Concordia, UdeM
2. Protocol analysis – McGill, Concordia
3. Artifact removal and pre-processing – Concordia, NRC
4. Data segmentation – Concordia
5. Segment Analysis – UdeM/Concordia/McGill

# Conclusion

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References

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