# **The practicability of multimodal data fusion for simultaneous EEG-fMRI demonstrated on a cognitive control task**

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**List of Contents**

[**List of Abbreviations** 4](#_Toc498321430)

[1. Theoretical Background and aims 5](#_Toc498321431)

[1.1 Multivariate analysis of fMRI and EEG data 5](#_Toc498321432)

[1.2 Multivariate analysis of fMRI and EEG data 5](#_Toc498321433)

[1.3 Multimodal data fusion 5](#_Toc498321434)

[1.4 Aims of this study – Is it worth the effort? 5](#_Toc498321435)

[2. Methods 5](#_Toc498321436)

[2.1 Participants 5](#_Toc498321437)

[2.2 Experimental Design and Setup 5](#_Toc498321438)

[2.2.1 General Procedure 5](#_Toc498321439)

[2.2.2 DPX Paradigm 5](#_Toc498321440)

[2.3 Data acquisition 5](#_Toc498321441)

[2.3.1 Materials and software 5](#_Toc498321442)

[2.3.2 EEG data acquisition 5](#_Toc498321443)

[2.3.3 fMRI data acquisition 5](#_Toc498321444)

[2.3.4 Measures for simultaneous recordings 5](#_Toc498321445)

[2.4 Data analyses 5](#_Toc498321446)

[2.4.1 Behavioural Data 5](#_Toc498321447)

[2.4.2 fMRI preprocessing 5](#_Toc498321448)

[2.4.3 EEG preprocessing 6](#_Toc498321449)

[2.4.3 EEG-informed BOLD prediction and forward head model computation 6](#_Toc498321450)

[2.4.4 Joint and parallel ICA 6](#_Toc498321451)

[2.4.5 Partial Least Squares for EEG-fMRI 6](#_Toc498321452)

[3. Results 6](#_Toc498321453)

[4. Discussion 6](#_Toc498321454)

[4.1 General findings on cognitive control 6](#_Toc498321455)

[4.2 The incremental value of combined analyses 6](#_Toc498321456)

[4.3 Asymmetric compared to symmetric data analyses 6](#_Toc498321457)

[4.4 Is multimodal data fusion worth the effort? 6](#_Toc498321458)

[4.5 Limitations and future directions 6](#_Toc498321459)

[5. References 6](#_Toc498321460)

# **List of Abbreviations**

**ACC** Anterior Cingulate Cortex

**AX-CPT** AX Continuous Performance Task

**BOLD** Blood oxygenation level dependent

**CPT** Continuous performance task

**DLPFC** Dorsolateral prefrontal cortex

**DMC** Dual Mechanisms of Cognitive Control

**DPX** Dot Pattern Expectancy Task

**EEG** Electroencephalography

**ERP** Event-Related Potential

**fMRI** Functional magnetic resonance imaging

**GLM** General Linear Model

**ICA** Independent Component Analysis

**jICA** Joint Independent Component Analysis

**pICA** Parallel Independent Component Analysis

**LFP** Local Field Potential

**MUA** Multi-unit cell activity

**PAC** Phase-amplitude coupling

**PFC** Prefrontal cortex

**PLS** Partial Least Squares

**RT** Reaction time

**WM** Working memory

# 1. Theoretical Background and aims

## 1.1 Multivariate analysis of fMRI and EEG data

## 1.2 Multivariate analysis of fMRI and EEG data

## 1.3 Multimodal data fusion

## 1.4 Aims of this study – Is it worth the effort?

# 2. Methods

## 2.1 Participants

## 2.2 Experimental Design and Setup

### 2.2.1 General Procedure

### 2.2.2 DPX Paradigm

## 2.3 Data acquisition

### 2.3.1 Materials and software

### 2.3.2 EEG data acquisition

### 2.3.3 fMRI data acquisition

### 2.3.4 Measures for simultaneous recordings

## 2.4 Data analyses

### 2.4.1 Behavioural Data

### 2.4.2 fMRI preprocessing

### 2.4.3 EEG preprocessing

### 2.4.3 EEG-informed BOLD prediction and forward head model computation

### 2.4.4 Joint and parallel ICA

### 2.4.5 Partial Least Squares for EEG-fMRI

# 3. Results

# 4. Discussion

## 4.1 General findings on cognitive control

## 4.2 The incremental value of combined analyses

## 4.3 Asymmetric compared to symmetric data analyses

## 4.4 Is multimodal data fusion worth the effort?

## 4.5 Limitations and future directions

# 5. References