Towards Short-term Detection of Job Strain in Knowledge Workers with a Minimal-invasive IS Service: Theoretical Foundation and Experimental Design

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**Problem**

Job Strain is a serious problem because it **negatively affects** the health condition of employees, the performance of organizations, and the overall costs of the health care system likewise.

**Research Questions**

A Job Strain Information System Service informed by neuromotor noise may help to detect and reduce job strain, but:

1. Which features of motor activity are related to physiological job strain?  
2. Is physiological job strain related to psychological job strain?

**Research Framework**

**Method**

- **Mouse interactions** are used to detect the degree of neuromotor noise.  
- A **lab experiment** is planned to manipulate the level of job strain.  
- Relevant features of mouse interactions are extracted by **machine learning**.

**Next Steps**

- Identification of relevant features of mouse interactions in the lab and the field. from July to December 2015  
- Integration of personalized job strain interventions. 2016+

**References**


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