

## REFEREES / SCIENTIFIC ORGANISATION

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As a neuroscientist, her recent studies investigate the neuropsychology of movement behavior, specifically the relation between movement and cognitive and emotional processes.

### Han Slöetjes

Software developer at the Max Planck Institute for Psycholinguistics in Nijmegen (The Netherlands). He is a Sun certified Java programmer who joined the Technical Group at the MPI in 2003. There he is mainly occupied with the further development of the multimedia annotation tool ELAN (<http://www.lat-mpi.eu/tools/elan>) and is currently the main responsible person for maintaining, extending and teaching this tool.

### Janka Bryjová

Student of Psychology at the Humboldt University Berlin. Since 2006, she has been working as a student assistant at the department of Psychosomatic Medicine in Dresden and Jena. Lectured on Neuropsychological Gesture Coding.

### Uta Sassenberg

Doctoral student of Cognitive Psychology at the Humboldt University Berlin and the Berlin School of Mind and Brain. Her PhD thesis on gesture production is mainly based on empirical studies coded with the NEUROGES-ELAN system.

## INFORMATION AND CONTACT

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### Information

[h.lausberg@dshs-koeln.de](mailto:h.lausberg@dshs-koeln.de)

### Location

Deutsche Sport Hochschule Köln  
Institutsgebäude I, 5. OG, R 506

### Public transportation by

Tram: Linie 1, Haltestelle Junkersdorf

### Dates

Thursday, Oct. 1 9:30 a.m. – 3:30 p.m.  
Friday, Oct. 2, 9:30 a.m. – 3:30 p.m.  
Monday, Oct. 5, 9:30 a.m. – 3:30 p.m.  
Tuesday, Oct. 6, 9:30 a.m. – 3:30 p.m.  
Wednesday, Oct. 7, 9:30 a.m. – 3:30 p.m.

### Workshop fee

250 €, reduced fee for students 150 €

### Deadline for registration

September 15, 2009

### Registration

For registration, please contact Mrs. Tech.  
E-mail: [Tech@dshs-koeln.de](mailto:Tech@dshs-koeln.de)



**Berlin Gesture  
Center**



in cooperation with

**German Sport  
University Cologne**

## **Gesture Coding with the NEUROGES-ELAN System**



## WORKSHOP

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### Introduction

In the workshop, we will present a coding system combined with an annotation tool for the analysis of gestural behaviour.

The NEUROGES coding system consists of three modules which progress from gesture kinetics to gesture function. Grounded on empirical neuropsychological and psychological studies, the theoretical assumption behind NEUROGES is that its main kinetic and functional movement categories are differentially associated with specific cognitive, emotional, and interactive functions.

ELAN is a free multimodal annotation tool for digital audio and video media. It supports multi-levelled transcription and complies with standards like XML (Extensible Markup Language) and Unicode. ELAN allows the gesture categories to be stored in vocabularies that are reusable by means of template files.

The combination of the NEUROGES coding system and the annotation tool ELAN results in an effective tool for empirical research on gestural behaviour.

## WORKSHOP

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### Summary of the workshop program

The workshop series consists of three workshops.

In *part I*, we will give an introduction to the NEUROGES Modules I and II and to ELAN.

The module I refers to coding gestures based on their kinetic features. In Module II, the relation between the two hands is evaluated.

The theoretical and empirical background of the Module I and II categories is explained. We will train coding gestures with the two modules. The ELAN part of the workshop includes working with media (video and audio) files, creating and managing tiers and tier types, creating annotations, working with template files, creating and applying Controlled Vocabularies, using ELAN's search functions, exporting simple statistics and calculating inter-rater agreement.

In *part II*, NEUROGES Module III shall be introduced. Here, the function of gestures is evaluated and gestures are further classified as types. The theoretical and empirical background of the Module III categories is explained, and we will train coding gestures with Module III. In addition, an introduction to empirical research with NEUROGES-ELAN is given.

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In *part III*, empirical studies using the NEUROGES-ELAN system are presented. The participants are encouraged to present their own research ideas or studies, which we will offer supervision for. Further, interaction coding with NEUROGES-ELAN is introduced.

A course reader and an interactive training DVD are provided for each participant. Participants are recommended to train coding with NEUROGES-ELAN before the workshop by using the interactive DVD.

### Hedda Lausberg

Professor of Neurology, Psychosomatic Medicine, and Psychiatry; dance therapist (BVT); habilitation in neurology at the Charité – University Hospital Berlin; co-founder of the Berlin Gesture Center ([www.berlingesturecenter.de](http://www.berlingesturecenter.de)); has received research grants from the German Research Association, the Max Planck Society, and the Volkswagen-Stiftung. Research focuses are: development of movement analysis tools for clinical and research purposes; relation between movement behavior and mental disease. A major research project examined the movement behavior of patients with eating disorders.