



PhD position in Applied Mathematics

The Max Planck Institute for Biological Cybernetics in Tübingen, Germany launches a research project with the aim to increase the realism of motion simulation. Psychophysical laws of perception will be implemented into the control framework of motion-based simulators. Human motion perception models will then be designed and experimentally tested in driving and flying scenarios using our unique CyberMotion Simulator in order to create new highly effective motion drive algorithms.

The candidate will be working in the broader scope of an international and multidisciplinary team (Roboticians, Control engineers, Psychologists, Mathematicians) within the department of Human Perception, Cognition and Action (Prof. Dr. Heinrich H. Bülthoff). The working language will be English.

The applicant should have:

- University Diploma or equivalent Master in Computer Science, Mathematics or Physics
- Firm knowledge of Numerical Analysis (Numerical Differential Equations and Monte Carlo Method)
- Expertise in data-structures and algorithms
- Programming skills (e.g. Matlab)

A background in Control Theory is highly desirable. Knowledge in psychophysics is highly valued.

The position is funded according to German Public service regulations (TVöD) for two years, with the possibility of extension, starting as soon as possible.

The Max Planck Society is an equal opportunity employer: Handicapped individuals are strongly encouraged to apply, and so are women in areas in which they are underrepresented.

Applications including CV and a brief statement of research interests should be submitted to:

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