



Universität Karlsruhe (TH)
Forschungsuniversität • gegründet 1825

Institut für Technische Mechanik
Prof. Dr.-Ing. habil. Thomas Böhlke
Prof. Dr.-Ing. Carsten Proppe
Prof. Dr.-Ing. Wolfgang Seemann
Prof. Dr.-Ing. Dr. h.c. Jörg Wauer
Institut für Mechanik
Prof. Dr.-Ing. Karl Schweizerhof



Mechanik-Seminar

Referent: **Prof. Khaled R. Asfar**
Mechanical Engineering Department, Jordan University of Science & Technology
Irbid, Jordanien

Datum: Donnerstag, 26.06.2008
Uhrzeit: **15:45 Uhr**
Ort: Geb. 10.23, 1. OG, SR 1

Thema: **"Novel Robotic Systems"**

Abstract

Novel concepts and designs for autonomous robotic systems will be presented. These projects were designed, built, and tested by the speaker and his students in the robotics lab at Jordan University of Science and Technology.

The following projects will be presented:

- (1) Unmanned autonomous small submarines,
- (2) Autonomous pole climbing robots including tree climbing and internal tube climbing,
- (3) Antipersonnel landmine detection and removal vehicle-robot, and
- (4) Autonomous two-wheel vehicle.

In all these projects, the autonomous operation is achieved through programmable microcontrollers (Motorolla or PIC) and various sensors for guidance and control. Novel aspects in these projects that led to patents or patent applications will be discussed in the presentation. Videos showing actual field testing of these devices will be shown during the presentation.

Alle Interessenten sind herzlich eingeladen.
Prof. Dr.-Ing. Wolfgang Seemann