KIT Mobility Systems Center
KIT Graduate school “UpGrade Mobility”
UpGrade Mobility

Overview

- KIT Graduate School of the KIT Mobility Systems Center
- Start in autumn 2021
- Offers (supra-)disciplinary qualification courses and interdisciplinary Networking
- Aim is the investigation on our vision of Seamless Mobility

*Seamless Mobility: seamlessly coordinated mobility chain of all mobility providers (public, private and commercial). The realization of Seamless mobility requires real-time linked mobility offers and autonomous mobility concepts.

Source: http://www.unsplash.com
UpGrade Mobility

Profile

- **Vision:** Seamless Mobility

- **Approach:** See mobility as a socio-techno-logical System of Systems (SoS)

- **Interdisciplinary** graduate school containing all research topics of the KIT Mobility Systems Center

- **Aim:** Provide doctoral researchers a systemic view of mobility, spanning their subject-specific domains as well as tools for describing and designing SoS
UpGrade Mobility

Strategic relevance

- More intensive cooperation with renowned scientific and public institutions, companies in the vehicle and mobility industry and relevant KIT institutes

- Improving the national and international visibility

- Increasing the attractiveness for highly qualified doctoral candidates

- Supra- and inter-disciplinary qualification of candidates
UpGrade Mobility

Organization

- Scientific speaker: Prof. Dr. rer. nat. Frank Gauterin
- Managing director: Florian Wittemann
- Representors of doctoral researchers: Election in end 2021
- Topic speakers of the KIT Mobility Systems Center
- Supervisor team: Promotion referents (and Co-referents)
UpGrade Mobility

Qualification offers

**Professional qualification:**
- Seminars on research area of the topics
- Working in an interdisciplinary Team
- Further offers: Summer / winter schools, stay abroad, self-organized seminars, Workshops, etc.

**Supra-disciplinary qualification:**
- Scientific working / writing / …
- Social responsibility of engineers
- Management
- Career options, Start-up, etc.

**Networking:**
- Promotion teams
- Mobility Think Tanks
- Exchange with scientists, industry and politics

**Internationalization:**
- International research stays and exchange programs
- Using Aspirant Grant (KHYS)
- Advice on international offers and PhD programs
UpGrade Mobility

Planed professional qualifications in detail

- Seminars on research area of the topics
- Seminars of external and industry referents
- Sommer school
- Mobility Think Tanks
- Guided institute tours
- Creative workshops of interdisciplinary teams of doctoral researchers
- Participation on the E-Mobility Online-colloquium of the Innovation Campus Mobility
- Working in an interdisciplinary team
Planed supra-disciplinary qualifications in detail

- Qualification courses organized by the school
  - Scientific working
  - Supervising graduate theses
  - Time and self management
  - Scientific writing and publishing
  - Acquisition training
  - Different seminars about options in science and industry
  - Career management

- Non-standard qualification courses organized by the school
  - Social significance and responsibility of engineers / research
  - Job-interview training
  - Realizing a patent
  - Research in other cultures

12 August 2021
Interdisciplinary and interinstitutional supervisor team:
- Supervising Professor
- Co-referent
- Scientific leaders

Regular (at least quarterly) meetings between the supervisory team and doctoral researchers:
- Coordination of progress and quality
- Advice on methodology, content, structuring and time planning
- Advice on publication possibilities
- Advice on offers from the KIT Graduate School such as qualification opportunities, exchange programs, career preparation, etc.
UpGrade Mobility

Quality assurance

Passive quality assurance:
- Intensive application process with diverse admission and selection criteria
  → as a result, low number of participants
- Further training opportunities for supervisors

Active quality assurance:
- Evaluation system with intermediate evaluation and final evaluation
- Continuous Improvement:
  - Evaluation of all events and offers by the participants
  - Evaluation and identification of improvement potential
- Annual assessment of goals, content, methods and organization by doctoral candidates and the supervisory team using online questionnaires
UpGrade Mobility

For the application

- Promotion at the KIT with focus on mobility
- Promotion start (acceptance at the faculty) not longer than 18 months apart
- Letter of recommendation from the promotion referents in separate Mail from the referents
- Participation of the promotion referents in the supervisor team
- Complete Application
  (Motivation, curriculum vitae, certifications (BA & MA), optional documents)
Contact for application or questions:

Florian Wittemann
Managing director “UpGrade Mobility”
florian.wittemann@kit.edu
Tel.: +49 721 608 45379