

Courses of the RTG 1703 in the winter semester 2015/16

Course	Description
Research Colloquium	<p>Content: The doctoral researchers will</p> <ol style="list-style-type: none"> 1. discuss their research issues; 2. demonstrate their ability to set-up a scientific study and to present the study design professionally; 3. present their state of research in front of expert audience and present their results in a systematic way; 5. gain in-depth knowledge in discipline specific fields and recent research institutions by presentations of guest lecturers; 6. be able to relate independently the offered issues to their own research topic; 7. be able to reflect their practical experiences. <p>Lecturer: Prof. Dr. Jutta Geldermann</p>
Doctoral Workshop	<p>This year's Ph.D. seminar will be a workshop integrated into the Global Cleaner Production & Sustainable Consumption Conference in Sitges, Barcelona, 1–4 November, 2015.</p>
Network Analysis, Optimization and Multi-Criteria Decision Support	<p>Content: Many economic problems can be formulated as combinatorial optimization problems that can be solved by suitable methods. In this lecture, basic modelling techniques will be discussed and methods from integer (linear) programming and multi-objective optimization will be presented that solve the corresponding kind of problem. In particular, the following methods will be presented by means of application examples:</p> <ul style="list-style-type: none"> - solution techniques for network flow problems, - branch and bound methods for integer optimization problems, - greedy heuristics and neighborhood search techniques for finding heuristical solutions of combinatorial optimization problems, - metaheuristics as a general class of methods for solving difficult problems, - methods for multi criteria decision aiding and - scalarizing methods for multi-objective optimization problems. <p>Lecturers: Prof. Dr. Anita Schöbel, Prof. Dr. Jutta Geldermann, Jr.-Prof. Dr. Anja Fischer</p>
Conflict management in heterogeneous groups	<p>Content Academia and industry increasingly act on a global scale. How nice, if this brings together the knowledge and competencies of people of different background and facilitates synergies. But communication in heterogeneous groups leads often to typical misunderstandings or even conflicts which could be avoided. It is not difficult to deal with conflicts in a constructive manner and to solve them before they grow into a substantial problem. If conflict is neither ignored nor allowed to escalate into a personal power struggle and the own as well as the others' motives are reflected upon, one can act consciously instead of only reacting emotionally. This way there is a chance of finding a solution with which all parties are satisfied. This workshop strengthens the awareness of interpersonal differences and helps to reflect or, if necessary, to correct one's own perceptions and patterns of action. It also conveys fundamental knowledge about dealing with conflict, in particular in heterogeneous groups. The participants learn to better judge the impact of their behaviour and to develop strategies for solving conflicts.</p> <p>Instructor: Sanja Stevic</p>