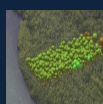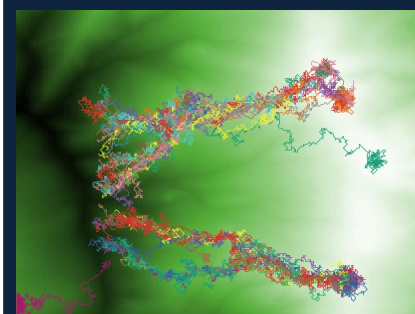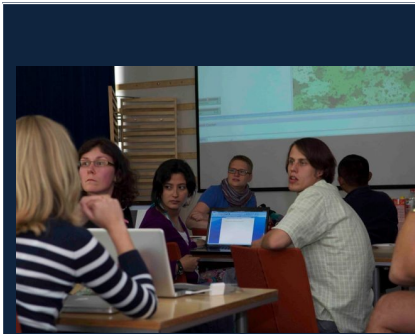# 10th SUMMER SCHOOL IN INDIVIDUAL - & AGENT-BASED MODELING 2016
AT THE DRESDEN UNIVERSITY OF TECHNOLOGY (TU Dresden), GERMANY

Institute of Forest Growth And Computer Sciences, TU Dresden Germany

Learning and Gaining from your Model: A Course in Analysis, Application, and Publication of Individual/Agent-Based Models (Intermediate level)

Contents
The course provides an overview over the state-of-the-art in individual- and agent-based modeling, debugging, parameterization, sensitivity analysis, and robustness analysis. Further topics are the handling of uncertainties in data, the design of simulation experiments and the statistical analyses of their results. Although the course will also give a short intro into model development and implementation, the main focus is on the steps, which follow as soon as your first model version is running.

This course is intended for grad students and researchers who are in the process of developing models by testing their first implementations and seek guidance on finishing, analyzing, and doing science with their models.

Although participants might have developed their models on different software platforms, the course will use NetLogo modeling software in combination with software for statistical analyses (e.g., R). Intermediate knowledge of Netlogo is required. Material introducing NetLogo and R will be provided before the course.

The lecturers are Uta Berger (TUD, Germany), Steve Railsback (USA), and Volker Grimm (UFZ, Germany). All of them are ecologists, so most of their example models will be from ecology. Scholars from other disciplines are also welcome.

The course will consist of lectures, exercises, and extensive modeling projects to be presented in groups at the end of the course.

Credit Points: 4 ECTS

Schedule: 9 days + tutorial-driven self-study in advance

Date: 30. June - 08. July 2016

Location: Natur Hotel Lindenhof, Holzhau (Saxony, Germany)

Number of Participants: max 25

Course fee: 850 Euro including tuition, accommodation, breakfast dinner, as well as the transport from Dresden main station to Holzhau (arrival day) and back (departure day).

Application via http://tu-dresden.de/forst/summerschool/

Application deadline: 19. February 2016

Contact   ronny.peters@tu-dresden.de

Miscellaneous: The course will take place in Holzhau – located in the heart of the Ore Mountains (http://en.wikipedia.org/wiki/Ore_Mountains). There will be optional hiking tours through a beautiful and fascinating landscape on Sunday and Wednesday afternoons. We also recommend a visit to Dresden (http://en.wikipedia.org/wiki/Dresden) before or after the course. We will provide support for preparing your travel.