



PMOD Technologies
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PMOD Developers Course

November 27 - 28, 2009

Zurich, Switzerland

Overview

The aim of the PMOD Developers Course is to train the participants in the use of the programming interfaces to the PMOD framework. Various interfaces can be programmed by the end user, in order to extend PMOD's functionality in respect to kinetic and pixel-wise models, image processing tools, and image segmentation algorithms. Brief presentations will outline the design principles behind the interfaces. They will be followed by in-depth examples and exercises on how to use the interfaces. Ample time will be available for individual practice based on the course handouts and for interacting with the trainers who are all PMOD core developers.

The participants are required to bring their own notebooks. They will obtain a USB flash key containing the latest PMOD version as well as the "PMOD Developers Pack". The PMOD Developers Pack comprises the documentation related to PMOD programming, the PMOD development library (pmod.jar file) as well as source code examples. PMOD can be started directly from the key, yet installation of a Java IDE and development environment on the participant's notebook could be necessary. As a courtesy, the key can be taken home and will work for another two months. Moreover, upon completion of the course, each participant will be given access to the "PMOD Developers Corner", via the customized support area on the PMOD website that is associated with the participant's PMOD license(s). The Developers Corner provides the latest version of the PMOD Developers Pack.

Educational Objectives

Upon completion of the training course the participants:

- will have a solid understanding of the PMOD framework
- will be able to program their own extensions using the PMOD Developers Pack

Target Audience

The training course is aimed at licensed PMOD users wishing to complement the PMOD software by customized extensions. Beyond familiarity with the PMOD software, participants are expected to have a basic command of Java or C++ programming.

Contents

Short Background Presentations

The presentations will provide basic information for the purpose of understanding the PMOD interfaces. They will include the following topics:

- Java – principles and basic techniques of object-oriented programming
- NetBeans as an example of a Java IDE for PMOD programming
- Developers Pack – content, installation and usage
- PMOD plug-in architecture
- Kinetic Modeling plug-in API
- Pixel-wise Modeling plug-in API
- Image Processing plug-in API
- Image Segmentation plug-in API

Examples

The examples will cover the implementation of the 4 plug-ins introduced in the background presentation part.

Exercises

- installation and setup of the development environment
- plug-in programming based on provided source code examples

Notes

- The participants are required to bring their own notebooks. At least 1GB RAM will be needed.
- We reserve the right for minor changes of the training content without notification.
- Beyond technical support of the PMOD Developers Pack, any other post-course support is **not** part of this course and must be arranged with PMOD separately.
- For using the PMOD Developers Pack, PMOD version 3.1 is required (which is also the version being provided on the USB flash key).

Organization

Training Schedule

Friday, November 27 09:00 - 17:00
Saturday, November 28 09:00 - 16:00

Workshop Dinner

On the eve of the first course day, PMOD will offer to all participants a free, complementary course dinner. The dinner will allow the participants and trainers to continue their discussions and to network among peers in an informal and relaxed setting.

Registration and Costs

Registration can be done online, and will be handled on a first-come, first-serve basis (the total number of participants is limited). The workshop fee is **EUR 630.-** and includes the training, all handouts, the USB flash key, all refreshments during the breaks, two lunches, as well as the complementary workshop dinner on the eve of the first training day.

After registration, the participants will receive by e-mail a confirmation message with access information and payment directions. Note that the *workshop fee must be paid within 10 days after registration* (online payment). Thereafter, we reserve the right to offer the place to persons waiting for a vacancy.

Workshop Location

The workshop will be held at Hotel Continental, Zurich, Switzerland (Stampfenbachstrasse 60, CH-8006 Zurich). The hotel is conveniently located in downtown Zurich, just a 10 minutes walk off the main station. http://www.accorhotels.com/accorhotels/fichehotel/de/sof/1196/fiche_hotel.shtml

Accommodation

The accommodation is not included in the fee and must be booked by the individual participants. Our recommended hotels are:

1. Hotel Bristol (Stampfenbachstrasse 34, CH-8006 Zurich). 3-Star hotel, a two minutes walk off the course location. http://www.hotelbristol.ch/home_e.html
2. Hotel St. Josef (Hirschengraben 64/68, CH-8001 Zurich). 3-Star downtown hotel, a 10 minutes walk off the course location. <http://www.st-josef.ch>
3. Hotel Continental (Stampfenbachstrasse 60, CH-8006 Zurich). 4-Star luxury hotel and course location. http://www.accorhotels.com/accorhotels/fichehotel/de/sof/1196/fiche_hotel.shtml

Cancellation Policy

The training will be cancelled if not enough enrolments have been done by October 23, 2009. In that case, the registered participants will be notified and will receive a full refund. As soon as the minimal number of participants is enrolled, they will receive a confirmation that the training is to take place, and the information on the PMOD website will be updated accordingly. If a registered participant has to cancel his or her attendance, he or she will get a refund (fee minus bank expenses) provided that the participant's place can be filled by another person.