

KNIME User Training Workshop

Date: 28-29 October 2009

Location: S-IN Soluzioni Informatiche via Ferrari 14, Vicenza

Language: English

Registration Fee: Industry: € 1000 (+VAT)
Students: € 680

Registration deadline: October 7 2009

Course Description

This workshop presented by the KNIME developers (group of Prof. Michael Berthold at the University of Konstanz, Germany) will provide participants with detailed insight into the use of KNIME as data mining tool. In particular some dedicated sessions will describe usage of this modular data exploration platform for the life sciences. If you desire a rapid and substantial boost in your understanding of data mining tools and techniques by means of an intuitive and user-friendly platform (KNIME), then this workshop is designed for you.

KNIME is an open source pipelining platform that enables the user to create data flows visually (also known as pipelines), execute analysis steps and later investigate the results through interactive views on data and models. Analysis flow are built by consecutively connecting processing units called nodes. The raw input data, that can be read from various data sources, is passed along the pipeline to other nodes which handle a number of different operations such as filtering, merging, modelling and data mining. Finally, nodes providing tools for interactive visualization help to explore the results.

KNIME provides an excellent data mining platform in life sciences for drug discovery informatics, bioinformatics and chemistry research. For example, KNIME includes nodes that can be used to visualize and transform molecular structures, compute descriptors and molecular properties, fingerprint(s) generation, perform data mining, implement machine learning algorithms, and search for functional groups. A wide array of nodes dedicated to life sciences is available as, for example, the Schrödinger KNIME Extensions, a powerful tool for modelling and cheminformatics. By means of the these extensions, workflows can be constructed to bring molecules through a series of complex and diverse operations and accurate predictions can be generated.

Learning Objectives

By the conclusion of the workshop participants will have developed an understanding of:

- Data Handling and mining with KNIME
- Statistics nodes in KNIME (WEKA & R)
- Data visualization in KNIME
- Use of KNIME for handling and mining data in life sciences (in particular chemistry-type data) by means of ad hoc nodes (e.g. KNIME extensions by Schrödinger).

Who should attend?

Biologists, chemists, analysts, statisticians, bioinformaticians and scientists in general as well as managers who wish to learn the use of a modular data exploration platform (KNIME) to develop their own research data processing networks (pipelines) for scientific analytics and decision making without any programming.

Should you wish to receive more information about the workshop, contact us at:
training@s-in.it

Workshop program

October 28

09:00 Welcome and KNIME Overview

Deep insights into KNIME usage:

- KNIME Data Handling
- KNIME Data Mining
- Special KNIME extensions (WEKA & R)
- External Tool node
- Extensions for handling chemistry-type data

17:00 End of day 1.

October 29

09:00 Continued KNIME usage:

- Visual exploration
- Tips and tricks on how to tackle general problems
- Example applications of KNIME
- Data mining in life sciences and applications
- Schrödinger extensions for KNIME

16:00 End of workshop

How to register

To register, please, fill in the training registration form provided below and fax it to:
S-IN Soluzioni Informatiche
fax: +39 0444 533954

The seats are limited and are provided on a first come, first served basis. Participation in the training sessions is particularly limited in line with our aim of providing truly interactive and personal training for all attendees.

Payment

Course fee (+VAT) includes coffee, lunches and course documentation. An invoice will be sent and payment is required within 30 days of the invoice date.

Cancellation policy

In the event of participant cancellation, fees shall be refunded in full provided at least three weeks notice is given prior to workshop commencement. No refund is possible if notice of cancellation is received less than three weeks before the workshop. Provided that S-IN is notified, substitution for the individual originally registered is permitted at any time.

S-IN reserves the right to cancel the course 14 days prior to the course start date at no cost to registrants if the minimum number of registrations has not been met.

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Registration Form

Mr/Ms/Dr/Prof: _____
First Name: _____
Family Name: _____
Affiliation: _____
Department: _____
Address: _____

Telephone: _____
e-mail: _____
P.IVA*: _____

*P.IVA: IVA (VAT - Value Added Tax) Registration Number. For workshops held in Italy, VAT is payable at the current Italian rate (20%). This applies to all types of organisations, whether VAT registered or not. It applies equally to organisations from outside Italy, because the place of supply of the service is Italy.

Workshop fee including accommodation (four stars Hotel):

- Industry 1220 €
 Students and Academia 900 €

The fee covers: registration, coffee breaks, two lunches, accommodation for two nights and breakfast in a four stars hotel, a dinner in an excellent restaurant and also pick-up service between the hotel, restaurant and workshop.

Workshop fee including accommodation (two stars Hotel):

- Industry 1150 €
 Students and Academia 830 €

The fee covers: registration, coffee breaks, two lunches, accommodation for two nights and breakfast in a two stars hotel, a dinner in an excellent restaurant and also pick-up service between the hotel, restaurant and workshop.

Workshop fee, basic

- Industry 1000 €
 Students and Academia 680 €

The basic fee covers: registration, coffee breaks and two lunches.

Terms and Conditions

The invoice will be issued right after the registration deadline. Payment is due within 30 days of the invoice date.

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