



April 4 - 8, 2011
Autrans, France

School location

The school will take place at *l'Escandille* in the small village of *Autrans* situated in the *Massif du Vercors* in the Alps, in France

Organization

This school is organized as follows:

- Lectures given by international experts on both theoretical aspects and applications.
- Poster sessions for ongoing research: participants are invited to present their research during one or two sessions.
- Workshop on actual problems: participants are invited to propose their application problems that will be discussed during the workshop sessions.

These two last items will provide the opportunity for the participants to exchange on their current research.

Speakers

ALAIN APPRIOU – FRANCE
 THIERRY DENCEUX – FRANCE
 DIDIER DUBOIS – FRANCE
 ARNAUD MARTIN – FRANCE
 PAUL-ANDRÉ MONNEY – USA
 (to be confirmed)
 EMMANUEL RAMASSO – FRANCE
 PRAKASH P. SHENOY – USA

First Spring School on Belief Functions Theory and Application

The **Belief Function Theory** represents a new approach devised to model and manage imprecise information in Artificial and Computational Intelligence. The theory of belief functions also referred to as evidence theory or Dempster-Shafer theory, was first introduced by Arthur P. Dempster in the context of statistical inference, and was later developed by Glenn Shafer as a general framework for modeling epistemic uncertainty. These early contributions have been the starting points of many important developments, including the Transferable Belief Model and the Theory of Hints. The theory of belief functions is now well established as a general framework for reasoning with uncertainty, and has well understood connections to other frameworks such as probability, possibility and imprecise probability theories. The field of application of this theory is very large.

THE AIM of this first spring school is to promote this theory and to introduce interested students and researchers to the basics of Belief Functions, both theoretical and applied. The school is organized into several lectures given by international experts. They will bring both theoretical and practical backgrounds, in a friendly environment favoring interaction between participants. An important part of the time will be devoted to the resolution of proposed exercises concerning applied problems. One objective of the school is to enable non specialists as well as potential users to become acquainted with the principles and fundamentals of the theory.

Scientific committee

ALAIN APPRIOU
 THIERRY DENCEUX
 DIDIER DUBOIS
 ARNAUD MARTIN
 EMMANUEL RAMASSO
 MICHELE ROMBAUT

Organization committee

MICHELE ROMBAUT (director of the school)
 MARIE-ROSE ALFARA
 LUCIA BOUFFARD-TOCCAT
 THIERRY CHAMPIER
 NADINE CHRISTIN
 ALAIN ROTH
 JEAN MARC TACNET



This spring school is organized by GIPSA-lab, CNRS and Cemagref.

<http://www.gipsa-lab.inpg.fr/summerschool/bfta/>