ESF-PESC Networking Programme

Applied and Computational Algebraic Topology
Newsletter 1   October 2011

Introduction. The ESF Networking Programme Applied and Computational Algebraic Topology was finally launched at the first meeting of its steering committee on July 9 in Zurich for a period of four years and a budget of 323 k€. The network has as its goal to facilitate the cooperation of researchers within the area by

- the organization and support of conferences, workshops and summer schools
- grants supporting short and exchange visits of researchers at a collaborating team in a European country
- the dissemination of important developments, primarily by way of a devoted website.

Basic Information. To start with, the ESF has established the website http://www.esf.org/acat with basic information:
- a short summary of the scope of the programme
- a list of the contributing organizations from twelve European countries. The network is open in the sense that further countries and organizations can join the programme with a contribution giving researchers from these countries full access to programme benefits.
- the composition of the steering committee that decides about initiatives to be taken or to be supported
- links to be used for applications for support or science meetings and visit grants
- contact information concerning the ESF officers in charge
- the original proposal from 2009

Supported events. At the steering committee meeting in Zurich, it was decided to support the following events during the 1st year of the programme (cf also the calendar of events below):
- a summer school prior to the workshop on Computational Algebraic Topology for Medical Imagery in Chipiona, Spain
- a school prior to the workshop on Computational Topology in Image Context, to be held in Bologna
- grants for subsistence expenses for participants of the DyToComp conference in Bedlewo, with priority for young researchers; moreover, a grant making a lecture by Stephen Smale possible.
- participation of the chair and of speakers at the 6ECM in Krakov presenting ACAT during a mini-symposium. The chair has recently applied for such a mini-symposium to be devoted to ACAT topics. A decision from the 6 ECM scientific committee is expected in the first days of December 2011.

Applications for support of scientific events under the ACAT umbrella can be put forward any time at http://www.esf.org/acat . We are particularly interested in events designed for the ACAT framework.
So far, one visit grant has been issued; please find modalities and application forms for visit grants at the website.

 Dissemination. A brochure explaining the scientific background and the aims of the ACAT programme is about to be completed and will be distributed at conference events related to ACAT. Moreover, a dedicated

website for ACAT is under preparation. A mailing list has been set up at the Aalborg secretariat of the programme. We encourage further subscriptions to that list; of course, it is possible to unsubscribe, as well.

Calendar of events:

- October 17-20, 2011: Advanced Course and Workshop on Computational Algebraic Topology applied to Medical Digital Imagery (CATMI),   Chipiona, Spain: http://congreso.us.es/catmi2011/index.php
- November 7-19, 2011: Workshops on Computational Topology and on Sphere Arrangements (as part of a thematic program on Discrete Geometry and Applications), Fields Institute, Toronto, Canada: http://www.fields.utoronto.ca/programs/scientific/11-12/discretegeom/wksp_comptop/index.html
- February 6-8, 2012: 4th International Workshop on Computational Topology in Image Context (CTIC): Bertinoro, Italy: http://ctic2012.dm.unibo.it/index , preceded by a summer school in Bologna (Feb 3-4)
- March 18-23, 2012: Workshop on Applications of Combinatorial Topology to Computer Science, Schloss Dagstuhl, Germany: http://www.dagstuhl.de/en/program/calendar/semhp/?semnr=12121
- June 24-30, 2012: Conference on Dynamics, Topology and Computations, Bedlewo, Poland: http://www.ii.uj.edu.pl/DyToComp2012/
- July 2-7, 2012: 6th European Congress of Mathematics, Krakow, Poland: http://www.6ecm.pl/
- July 2-7, 2012: Conference ATMCS V, Edinburgh, Scotland, UK
- October 14-19, 2012: Workshop on Topological Data Analysis and Machine Learning, Banff, Canada: http://www.birs.ca/events/2012/5-day-workshops/12w5081