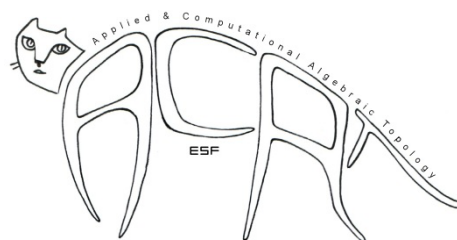


ESF-PESC Networking Programme

Applied and Computational Algebraic Topology

Newsletter 8¹

October 2014



The ACAT programme of the European Science Foundation ESF has run since July 2011 and will terminate in July 2015. Please find below an overview of recent and future activities related to ACAT.

Steering Committee

The ACAT steering committee met along with the conference at CIEM on June 30 and took decisions about conference support detailed below. A discussion about a continuation of the ACAT network after the funding period was initiated – full support from all participants. A first step will be a revised application for a trimester at the Hausdorff Institute in Bonn.

Workshops and conferences

ACAT support finally approved:

- Applied Algebraic Topology, CIEM Castro Urdiales (ES), June 30 – July 5, 2014, <http://homepages.warwick.ac.uk/~maskas/> including an advanced lecture course <http://homepages.warwick.ac.uk/~maskas/courses.html>
- Seventh de Brun Workshop: Homological Perturbation Theory, National University of Ireland, Galway (IE), December 1-5, 2014, <http://hamilton.nuigalway.ie/HPT/>
- XXIst Oporto Meeting on Geometry, Topology and Physics focusing on Applications of Topology, Lisbon (PT), February 4-7, 2015, <http://cmup.fc.up.pt/cmup/omgtp/2015/>
- Dynamics, Topology and Computations 2015, Bedlewo (PL), June 15 -20, <http://ww2.ii.uj.edu.pl/DyToComp2015/>

ACAT support conditionally approved by the steering committee:

- Geometric and Topological Methods in Computer Science, Aalborg (DK), April 7-10, <http://people.math.aau.dk/~fajstrup/KONFERENCER/>
- Special session # 6 on Applied algebraic topology as part of the AMS-EMS-SPM meeting, Porto (PT), June 10-13, 2015, <http://aep-math2015.spm.pt/ListOfSessions>
- Summer School on Computational Topology and Topological Data Analysis, Ljubljana (SLO), June/July 2015
- Conference Applied and Computational Algebraic Topology, Vienna (A), July 2015

There may be a limited amount left for support of other conference activities. If you are interested in applying, please contact raussen@math.aau.dk and/or apply through https://www2.esf.org/WD170AWP/WD170Awp.exe/CONNECT/RNP_SMeetings_Application?id=1049 as soon as possible.

¹Previous Newsletters can be found at <http://acat.lix.polytechnique.fr/>

Visit and exchange grants

So far, ACAT has sponsored four exchange grants (ranging from one to four months) and 33 visit grants (ranging from a few days up to two weeks). For future grants, please apply soon(!) at

<http://www.esf.org/activities/research-networking-programmes/physical-and-engineering-sciences-pesc/current-research-networking-programmes/applied-and-computational-algebraic-topology-acat/grants.html>. The steering committee has appointed a subcommittee consisting of Neza Mramor Kosta,

Aniceto Murillo and Martin Raussen to handle grant applications.

ACAT web site:

Please contribute with ideas and suggestions to the ACAT web site <http://acat.lix.polytechnique.fr/> maintained by Samuel Mimram!

Another interesting page to consult is <http://appliedtopology.org/>.

Hausdorff Institute

A revised application for a trimester at the Hausdorff Institute for Mathematics at Bonn, Germany, in spring/summer 2017 was submitted recently. A decision is expected in January 2015.

IMA thematic year on scientific and engineering applications of algebraic topology

The thematic year at the IMA in Minneapolis, MN, USA, <http://www.ima.umn.edu/2013-2014/> was a great experience; it concluded with the sixth ATMCS conference in Vancouver, BC, Canada:

<http://www.pims.math.ca/scientific-event/140526-atmcs>. One of the results is the establishment of a new Research Network in Applied Algebraic Topology (director: Peter Bubenik) featuring weekly online seminars: <https://www.ima.umn.edu/topology/>.

Topology in Motion

A program "Topology in motion" is planned at the Institute for Computational and Experimental Research (ICERM, Brown Univ., RI, USA) for the fall semester of 2016.

Journal of Applied and Computational Topology

Unfortunately, long lasting negotiations with the American Mathematical Society about JACT finally did not come to a positive conclusion. Several other publishers had shown interest in the journal project; the initiators are now trying to sort out the best possible deal. The journal should be able to start appearing in 2016.

Calendar of Events

- Discrete, Computational and Algebraic Topology, Copenhagen (DK), November 10-14, 2014, <http://www.math.ku.dk/english/research/conferences/2014/dcat2014/>
- Seventh de Brun Workshop: Homological Perturbation Theory, National University of Ireland, Galway (IE), December 1-5, 2014, <http://hamilton.nuigalway.ie/HPT/>
- XXIst Oporto Meeting on Geometry, Topology and Physics focusing on Applications of Topology, Lisbon (PT), February 4-7, 2015, <http://cmup.fc.up.pt/cmup/omgtp/2015/>
- Homology: Theoretical and Computational Aspects, Genova (IT), February 9-13, 2015, <http://htca2015.dibris.unige.it/>
- Computational Geometry, Schloss Dagstuhl (D), March 8-13, 2015, <http://www.dagstuhl.de/en/program/calendar/semhp/?semnr=15111>

- Geometric and Topological Methods in Computer Science, Aalborg (DK), April 7-10, 2015, <http://people.math.aau.dk/~fajstrup/KONFERENCER/>
- Special session # 6 on Applied algebraic topology as part of the AMS-EMS-SPM meeting, Porto (PT), June 10-13, 2015, <http://aep-math2015.spm.pt/ListOfSessions>
- Dynamics, Topology and Computations 2015, Bedlewo (PL), June 15 -20, 2015, <http://ww2.ii.uj.edu.pl/DyToComp2015/>
- Summer School on Computational Topology and Topological Data Analysis, Ljubljana (SLO), June/July 2015
- Applied and Computational Algebraic Topology, Vienna (A), July 2015
- Computational Geometric and Algebraic Topology, Oberwolfach (D), October 11-17, 2015, http://www.mfo.de/occasion/1542/www_view