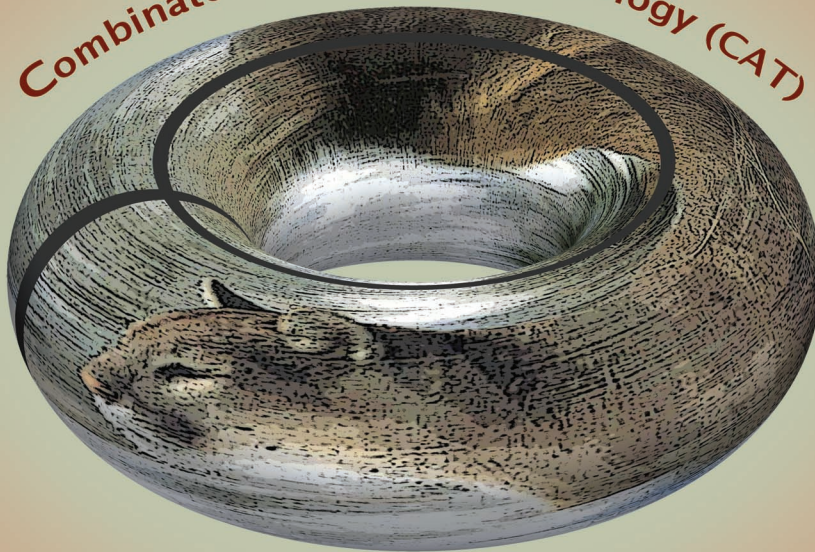


Sandia National Laboratories - CSRI Workshop on Combinatorial Algebraic Topology (CAT): software, applications & algorithms

SAND2009-5317P

29-30 August 2009, Reception Evening 28 August
Hilton Santa Fe, NM

Combinatorial Algebraic Topology (CAT)



The purpose of the workshop is to bring together combinatorial algebraic topology (CAT) researchers from universities, Sandia and other national laboratories for a technical exchange. The workshop will feature talks and ample discussion time on algorithmic issues, established CAT software efforts, and novel applications.

Themes include algorithmic challenges, software, and novel applications. Of special interest are algorithms for Betti numbers, homology generators, and Reeb graphs. The workshop encourages discussions of scalability: e.g. with respect to the dimension of the complex; the number of vertices or simplices; and parallelism on MTA, cloud, cluster, or MPP architectures.

