

GABB'18: Workshop on Graph Algorithm Building Blocks

GABB started four years ago with the narrow goal of exploring basic building blocks for graph algorithms (<http://graphblas.org>), analogous to the Basic Linear Algebra Subprograms (BLAS). Over the years, our scope has expanded. We've welcomed a wide range of papers into GABB covering graph computations with an emphasis on high-performance and parallel computing.

At GABB'18, we will open with a keynote talk about the history and future developments in graph algorithms expressed in the language of linear algebra. We then continue with a program that mixes invited talks and contributed papers looking at graph algorithms, graph generation, and reports on early implementations of the GraphBLAS. We close with a session exploring open problems in graph analysis and how they interact with Graph Algorithm building blocks to improve programmability and chase the elusive dream of “performance portability”.

Program Chair:

Tim Mattson (Intel)

Steering Committee:

David Bader (Georgia Institute of Technology)

Aydin Buluc (LBNL)

Jeremy Kepner (MIT Lincoln Lab)