



DGA 2013

Workshop on Distance Geometry and Applications

This is the First Announcement of the **WORKSHOP ON DISTANCE GEOMETRY AND APPLICATIONS – DGA'2013**, which will take place in a jungle hotel, along the Amazon River and in the middle of the Amazon rainforest, one of the world's greatest natural environments and a huge biodiversity hotspots, close to Manaus, capital of the Amazonas state, Brazil, June 24-27, 2013.

The aim of the Workshop is to bring together researchers in multidisciplinary fields, with emphasis on Distance Geometry (DG). Distance Geometry is an area of research already consolidated, with Mathematics and Computer Science as key areas at its foundation. The concept of distance is essential to the human experience and DG puts this concept as the main object in a given geometric structure. The fundamental problem of DG is to find a set of points in a given geometric space whose distances between some of these points are known. Besides the beauty of the mathematical theory associated to DG, the interest in this research topic is explained by the richness and variety of its applications. Among the best known ones we find molecular structure determination by using NMR data, localization of sensor networks, graph rigidity, graph realization, data visualization, and robotics.

We accept contributions in the form of extended abstracts (maximum 4 pages) to be published in the workshop proceedings without copyright. They will be presented in a poster session, which will be a very important part of the workshop. The best accepted extended abstracts will be selected for a special session of oral presentations (5-10 min presentations). There will be a special issue of the journal "*Discrete Applied Mathematics (DAM)*", where participants will be invited to submit their corresponding full papers. Submissions will be accepted from October 1st, 2012, to February 4th, 2013. The registration fee, the invited speakers, and additional information will be provided later in the Second Announcement. The official language of the workshop is English.

IMPORTANT DATES:

Submission deadline: February 4, 2013
Acceptance notification: April 1, 2013
Workshop dates: June 24-27, 2013

SUPPORT AND ORGANIZATION:

Universidade Federal do Amazonas, Brazil
Universidade Federal do Rio de Janeiro, Brazil
Universidade Estadual de Campinas, Brazil
Ecole Polytechnique, France
Universidade de Rennes 1, France

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