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AF: Small: Algorithms for Geometric Shortest Paths and Related Problems

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DATA MANAGEMENT PLAN

This Data Management Plan addresses NSF's policy on the dissemination and sharing of research results within a reasonable time. This plan will make certain that the data produced during the period of this project is appropriately managed to ensure its usability, access and preservation.

Description of data, software, and curriculum materials

Since the research of this project is mainly on developing theoretical algorithms, the main "data" that will be produced are theoretical algorithms that do not involve any actual data. Scientific research papers will be produced in this project.

In case we will implement some algorithms, software packages will also be developed.

In addition, curriculum materials, such as lecture notes, PPT slides, videos for developing the algorithms and computational geometry courses will also be produced.

Standards for data and metadata format and content

All research papers will be written by L^AT_EX. Published research papers will follow the formats of the corresponding conference proceedings and journals.

Software will be coded in C/C++.

The curriculum materials will be provided in PDF, Microsoft Powerpoint slides, and in HTML.

Data access and sharing

All data, software, and other materials will be open source and made available for public use.

Our algorithms developed in this project will be published in archival journals and research conference proceedings, as well as in students' theses for fulfillment of their degree requirements. In all our publications, we will state the NSF funding support to our research work. The access to our publications will be administrated by the corresponding publishers or subject to the intellectual property law.

The new algorithmic techniques developed from this project will also be incorporated into the PI's undergraduate and graduate courses on algorithms and computational geometry to show students the significant power of geometric algorithms, and to teach them the tools for such research topics.

The software packages and curriculum materials developed in the project will be provided online and open to the public.