

## **Data Management Plan**

### **I. Types of data**

The research data for the proposed project will consist of experimental results, digital data, digital results and computational models. We will use Providence College's FTP site and Dropbox for sharing the data among the team members. With both these systems each user receives a secure login and password for accessing the project site. All the collaborating members from external institutions and companies will sign a non-disclosure agreement so there will be no issues with sharing the data within the team.

### **II. Data and Metadata Standards**

The software produced in this research will be written using a standard language such as C++ or Python, and will make use of either a commercial software APIs (e.g., Apple's iOS developer tools) or, preferably, open-source APIs.

### **III. Policies for access and sharing, and provisions for appropriate protection and privacy**

The data/software we create will be shared freely with any researchers who submit a request to us. At the end of the project, we plan to make the data/software available on the project website. The raw data from our evaluations will be shared freely with any researchers who submit a request to us. At the end of the project, we will make this data available on the project website. We will allow re-use, but not re-distribution, of the experiment data created through this project. Any re-use should carry an appropriate acknowledgement or attribution of the investigators, PI institution, and NSF.

The data we collect will not be copyrighted and will have no licenses pertaining to it. There will be no charge for accessing this data. However, to limit the load on our server, we may place data rate or time of access restrictions. We retain the right to use the data before opening it up to wider use but once we publish a paper we will release its corresponding data.

All the students will be required to submit their theses electronically. We will use the worldwide Theses and Dissertations (ETDs) initiative (<http://scholar.lib.vt.edu/>). ETDs are available by browsing authors and departments in the *ETD database* and from the Networked Digital Library of Theses and Dissertations (NDLTD). The NDLTD encourages and supports the efforts of institutes of higher education and their communities to develop electronic publishing and digital libraries (including repositories), thus enabling them to share knowledge more effectively in order to unlock the potential benefits worldwide. (<http://www.ndltd.org/serviceproviders/scirus-etd-search>).

### **IV. Policies and provisions for re-use, re-distribution**

There will be no permission restriction placed on the data and the code and design files. Other researchers working on privacy in pervasive computing systems are the most likely consumers of the released data. The intended or foreseeable users of the data, code and design files would be those seeking to improve privacy mechanisms. And there are no reasons not to share or re-use data.

### **V. Plans for archiving and Preservation of access**

We plan for archiving data, samples, video footage and other research products, and preservation of access to them through the course of the project and beyond via long-term archival servers using the Biological and Chemical Oceanography Data Management Office (BCO-DMO). The long-term strategy for maintaining, curating and archiving the data is via regular backup of data sets into suitable long term storage media such as optical or magnetic media stored in a secure location or cloud storage, separate from the database server. There are no transformations necessary to prepare the data for preservation and data sharing. As far as metadata goes, documentation will be preserved alongside the data in order to make the data is interpretable by other users.