

CMPS 460
Spring 2011
Assignment #1

Due date: Beginning of class on Wednesday, February 2nd, 2011

Objectives:

- **Understand and apply fundamental database design techniques**
- **Analyze written application requirements and design a database to store and retrieve the necessary data**

Assignment: Design a database for the following application. You must use a software design tool such as Visio or DIA. You will turn in a printed version of your ER diagram.

CONFERENCE PAPER PREVIEW DATABASE

We need a database design in the form of an ER diagram that will satisfy the following requirements:

Authors generate research papers and submit them to various conferences. The conference will assign reviewers to review the papers and provide rankings in various categories, an acceptance recommendation, and feedback to the conference review committee and the authors of the paper. It is common for authors to submit papers with the same title to different conferences. This is acceptable as long as the paper content is significantly different or the conferences don't overlap.

Conferences are identified by a combination of the conference name and the year. For each conference the database will store the contact e-mail address, the contact phone number, and the conferences web site URL.

Authors of papers are uniquely identified by their e-mail address. First and last names are also recorded. A paper may have multiple authors but one of them is designated as the contact author.

Each paper submitted to a conference is assigned a unique identifier. Note that there is no guarantee that two different conferences won't use the same identifier. Conferences often use a simple integer value indicating the submission order of the paper. The database will also include the paper title, abstract, and the file name of the submission.

Reviewers are uniquely identified by their e-mail address. The database will include the reviewers first name, last name, phone number, affiliation, and up to three areas of expertise. Obviously, different conferences can use the same reviewer. For instance, an annual conference will use the same reviewers year after year.

Each paper is assigned to between two and four reviewers. A reviewer rates each paper assign to them on a scale of 1 to 10 in four categories: technical merit, readability,

originality, and relevance to the conference. Finally, each reviewer provides an overall recommendation regarding each paper.

Each reviewer prepares two sets of comments. One set for the review committee and another set as feedback to the authors.

NOTE: You can treat a block of text (such as comments) as a single attribute.