

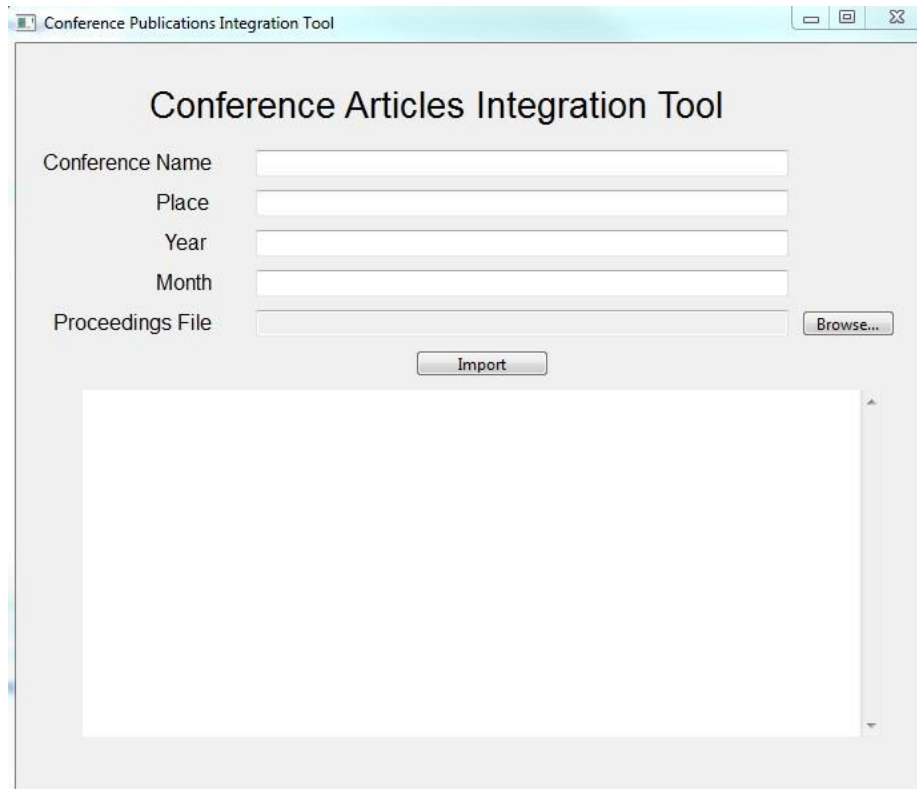
# CS2310 Term Project Milestone2

Wen Gao

## Title

Publication Integration System

## UI Design



The screenshot shows a window titled "Conference Publications Integration Tool". Inside the window, the title "Conference Articles Integration Tool" is centered at the top. Below the title, there are five input fields arranged vertically on the left side, each with a label to its left: "Conference Name", "Place", "Year", "Month", and "Proceedings File". To the right of the "Proceedings File" field is a "Browse..." button. Below these input fields is an "Import" button. At the bottom of the window is a large, empty text area with a vertical scrollbar on its right side.

Figure 1. User Interface

User needs to input conference name, place, year, month and the proceedings file path through this user interface. The articles in this file will be parsed and imported to the database after the "import" button is clicked. All the detailed log information will show in the text field below.

## Database Design

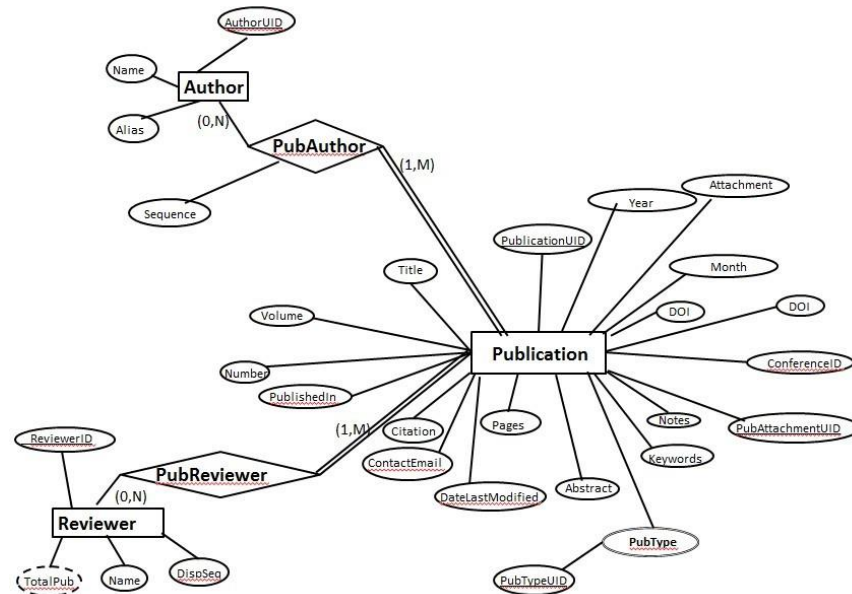


Figure 2. Entity-Relation Diagram

## PDF file Parser Design

The conference proceedings files for the conference DMS and SEKE have fixed document format. Generally the parsing steps are:

1. Extract the list of articles and the corresponding start page included in the file.

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Figure 3. Format of Table of Contents

2. Retrieve the title, author name and email address, and abstract of each article.

## Spatial Temporal Reasoning Using QSR, Physics, and Image Processing

Nathan Eloie  
nwe5g8@mst.edu

Jennifer L. Leopold  
leopoldj@mst.edu

Chaman L. Sabharwal  
chaman@mst.edu

Computer Science Department  
Missouri University of Science and Technology  
Rolla, MO 65409, USA

### Abstract

*Qualitative spatial reasoning (QSR) is a powerful tool in automated computer reasoning, a necessary step forward*

- How can the information gain of the system be maximized while the computational cost is minimized? In other words, what calculations should be done to obtain the most information with the least work?

Figure 4. Format 1 of the article

## Supporting CMMI assessment using distributed, non-invasive measurement and process mining

Saulius Astromskis, Andrea Janes, Alberto Sillitti, and Giancarlo Succi  
Centre for Applied Software Engineering  
Free University of Bozen/Bolzano, Bolzano, Italy  
{saulius.astromskis, andrea.janes, alberto.sillitti, giancarlo.succi}@unibz.it

### Abstract

*Evolution of lightweight software development such as Agile and Lean is damaged by prac-*

ware, turn your customers into friends, main lines easily, and will have a 9 to 5 job [1].

Moreover, some companies call themselves Lean, etc., not because they pursue agility

Figure 5. Format 2 of the article

## Accomplishment by project demo

Design and implementation of metadata import and publication export function modules.