



# D Scholarship UAR

Kacey Hirth, Sandeep Mysore, Sichen Ma, Xiya Liu, Shuo-Yuan Chang



# Project Description

Our project was aimed at evaluating the design, functionality, usability and interactivity of a system keeping in mind good design practices and user centric needs and user experience.

Methodology -

- Intensive Interface and UI Testing

- Intensive Functionality Testing

- Heuristic Evaluation

- Usability Aspect Reports



# System Description

System - D-Scholarship@Pitt

D-Scholarship is an institutional repository for the consolidated research output of University of Pittsburgh.

It is a system used for archiving varieties of items, including journal articles, thesis, Electronic Theses and Dissertations (ETDs), book chapters, and more, for staffs and students in the University of Pittsburgh. Besides that, the system will always ensure the continued readability and accessibility of items in the repository.

<http://d-scholarship.pitt.edu/>



# About the System

D-Scholarship is hosted and maintained by the [University Library System](#) of the [University of Pittsburgh](#).

It is based on Open Access principles - all materials in the repository are freely accessible to the global research community.

The content can be uploaded by any author with an active University of Pittsburgh account but is strictly restricted to scholarly research materials.

Highlights of the system :

- Provides the aided benefit of preservation of work contained in the system repository

- Provides stable, long-term storage and ongoing maintenance for content contained within the repository.

- Designed to increase discovery of your research by allowing indexing by Google and other major Internet search engines, the Pennsylvania Digital Library, and PITTCat+.

# Home Page - Overview

## Good Feature:

- Simple and Natural Dialog:
- Minimalist layout design

## Problem:

- Speak the User's Language:
- Font size is too small
- Possible Solution: make the font size larger

**My Account**  
Logged in as **Sichen Ma**  
[Manage deposits](#)  
[Profile](#)  
[Saved searches](#)  
[Logout](#)

**Search**  
  
[Advanced Search](#)  
[Search](#)

**Browse**  
[by School](#)  
[by Research Center](#)  
[by Year](#)  
[by Document Type](#)  
[Latest Additions](#)

**Information**  
[Main Page](#)  
[Getting Started](#)  
[Submitting Your ETD](#)  
[Repository Policies](#)  
[About](#)  
[FAQ](#)  
[Help](#)

## Welcome to D-Scholarship@Pitt

D-Scholarship@Pitt is an institutional repository for the research output of the University of Pittsburgh.

D-Scholarship@Pitt provides stable, long-term storage and ongoing maintenance for content contained within the repository.

Materials are submitted directly by authors with an active University of Pittsburgh Computer Account. Submissions are restricted to scholarly research materials. Examples of items that this repository can accommodate include:

- Research papers, published or unpublished
- Conference papers and presentations
- Supporting multimedia (audio, video, images, etc.)
- Research data
- Electronic Theses and Dissertations

D-Scholarship@Pitt is designed to increase discovery of your research by allowing indexing by Google and other major Internet search engines, the Pennsylvania Digital Library, and PITTCat+.

## Repository Statistics



## Most downloaded items

1. ARE TEACHERS' PERCEPTIONS ABOUT STUDENT-TEACHER RELATIONSHIPS PREDICTABLE FROM ONE GRADE TO THE NEXT?	172,027
2. A Review and Comparison of Methods for Detecting Outliers in Univariate Data Sets	113,603
3. The Roles and Responsibilities of Special Education Teachers	77,827
4. Pearson's Versus Spearman's and Kendall's Correlation Coefficients for Continuous Data	66,047
5. John F. Kennedy - Leadership Qualities That Moved A Nation	61,022

10 25 50 all

# Home Page - Details

## Information

[Main Page](#)

[Getting Started](#)

[Submitting Your ETD](#)

[Repository Policies](#)

[About](#)

[FAQ](#)

[Help](#)

## Most downloaded items

1. <a href="#">ARE TEACHERS' PERCEPTIONS ABOUT STUDENT-TEACHER RELATIONSHIPS PREDICTABLE FROM ONE GRADE TO THE NEXT?</a>	172,027
2. <a href="#">A Review and Comparison of Methods for Detecting Outliers in Univariate Data Sets</a>	113,603
3. <a href="#">The Roles and Responsibilities of Special Education Teachers</a>	77,827
4. <a href="#">Pearson's Versus Spearman's and Kendall's Correlation Coefficients for Continuous Data</a>	66,047
5. <a href="#">John F. Kennedy -Leadership Qualities That Moved A Nation</a>	61,022

Loading...

10 25 50 all

### Problem

- Use of uncommon acronyms without explanation

### Possible Solution

- Explain it as Electronic Thesis and Dissertation

Heuristic: Speak the user's language

### Problem

- No way to cancel loading of most downloaded papers

### Possible Solution

- Including a cancel button for the request;
- Allowing users to page through papers to lower the loading time

Heuristic: Provide clearly marked exits

# Home Page - Details

The screenshot displays the D-Scholarship home page for a logged-in user. The header features the D-Scholarship logo and the University of Pittsburgh @Pitt branding. A yellow box highlights the 'Logged in status' in the top left corner. The left sidebar contains navigation links for 'My Account' (including 'Logged in as Sichan Ma', 'Manage deposits', 'Profile', 'Saved searches', and 'Logout'), 'Search' (with a search bar and 'Advanced Search' link), 'Browse' (with links like 'by School', 'by Research Center', 'by Year', 'by Document Type', and 'Latest Additions'), and 'Information' (with links like 'Main Page', 'Getting Started', 'Submitting Your ETD', 'Repository Policies', 'About', 'FAQ', and 'Help'). The main content area is titled 'Manage deposits' and includes a 'Help' link, a 'New Item' button, and an 'Import from Atom XML' button. Below these are checkboxes for 'User Workarea', 'Under Review', 'Live Archive', and 'Retired'. A table lists two items: '40344 User Feedback in Controllable and Explainable Social Recommender Systems: a Linguistic Analysis' and '40366 UNSPECIFIED'. The table has columns for 'Item ID', 'Title', 'Item Type', 'Item Status', and 'Last Modified'. The 'Main Page' link in the 'Information' section is highlighted with a red box.

Logged in status

My Account

Logged in as Sichan Ma

Manage deposits

Profile

Saved searches

Logout

Search

Search

Advanced Search

Browse

by School

by Research Center

by Year

by Document Type

Latest Additions

Information

Main Page

Getting Started

Submitting Your ETD

Repository Policies

About

FAQ

Help

Manage deposits

Help

New Item

Import from Atom XML

Import

☒ User Workarea. ☒ Under Review. ☒ Live Archive. ☒ Retired.

Item ID	Title	Item Type	Item Status	Last Modified
40344	User Feedback in Controllable and Explainable Social Recommender Systems: a Linguistic Analysis	Article	User Workarea	11 Mar 2021 23:23
40366	UNSPECIFIED	Article	User Workarea	15 Mar 2021 00:10

Add Column

## Problem

- Can't return to the home page from other parts of the website when user logged in

## Possible Solution

- Maintain a button linked to Home page no matter what kind of status

## Heuristic:

Be Consistent, Provide Shortcuts

# Search

Good  
There are  
pagination  
buttons on the  
top and bottom

Displaying results 1 to 20 of 204.

[Refine search](#) | [New search](#) | [1](#) | [2](#) | [3](#) | [4](#) | [5](#) | [6](#) | [7](#) | [8](#) | [9](#) | [10](#) | [11](#) | [Next](#)



Order the results: by relevance match Reorder

Export 204 results as ASCII Citation Export

[RSS 1.0](#) [Atom](#) [RSS 2.0](#)



1.

Tsai, Chun-Hua and Brusilovsky, Peter (2016) [A personalized people recommender system using global search approach](#). In: IConference 2016, 20 March 2016 - 23 March 2016, Philadelphia, Pennsylvania, USA.





2.

Hosseini, R and Brusilovsky, P (2016) [A comparative study of visual cues for adaptive navigation support](#). In: UNSPECIFIED.





3.

Weber, G and Brusilovsky, P (2016) [ELM-ART - An Interactive and Intelligent Web-Based Electronic Textbook](#). International Journal of Artificial Intelligence in Education, 26 (1). 72 - 81. ISSN 1560-4292



19.



Huang, Yun and Gonzalez-Brenes, Jose and Brusilovsky, Peter (2015) [The FAST toolkit for Unsupervised Learning of HMMs with Features](#). In: The Machine Learning Open Source Software workshop at the 32nd International Conference on Machine Learning.



[+1 more...](#)

20.

Wongchokprasitti, Chirayu and Brusilovsky, Peter and Parra-Santander, Denis (2010) [Conference Navigator 2.0: Community-Based Recommendation for Academic Conferences](#). In: Workshop on Social Reminder Systems (SRS '10), 07 February 2010 - 07 February 2010, Hong Kong, China.



Displaying results 1 to 20 of 204.

[Refine search](#) | [New search](#) | [1](#) | [2](#) | [3](#) | [4](#) | [5](#) | [6](#) | [7](#) | [8](#) | [9](#) | [10](#) | [11](#) | [Next](#)

Order the results: by relevance match Reorder





# Browse

## Problem

To many links on the browse page

Please select a value to browse from the list below.

- [Schools and programs](#) (20375)
  - [College of Business Administration](#) (43)
    - [Accounting](#) (4)
    - [Business Administration](#) (32)
    - [Finance](#) (2)
    - [General Management](#) (1)
    - [Marketing](#) (4)
  - [College of General Studies](#) (2)
  - [Dietrich School of Arts and Sciences](#) (6562)
    - [Africana Studies](#) (5)
    - [Anthropology](#) (224)
    - [Applied Mathematics](#) (5)
    - [Architectural Studies](#) (4)
    - [Astronomy](#) (13)
    - [Bioethics](#) (36)
    - [Biological Sciences](#) (345)
    - [Chemistry](#) (1255)
    - [Classics](#) (13)
    - [Communication Science and Disorders](#) (14)
    - [Communication: Rhetoric and Communication](#) (140)
    - [Computational Biology](#) (13)
    - [Computational Modeling and Simulation](#) (4)
    - [Computer Engineering](#) (8)
    - [Computer Science](#) (289)
      - [Computer Science Technical Reports](#) (9)
      - [Intelligent Systems Technical Reports](#) (18)
    - [East Asian Studies](#) (42)
    - [Ecology and Evolution](#) (2)
    - [Economics](#) (166)
    - [English](#) (367)
    - [Environmental Studies](#) (1)
    - [Film Studies](#) (21)
    - [French](#) (26)



# Login, Profile, Logout - detail

## Problem

There is no login instruction

## Heuristic

Provide clearly marked exits

### Login

Please enter your username and password.

Username:

Password:

Login

Note: you must have cookies enabled.



# Login, Profile, Logout - detail

## Problem

It is not the user language in the User History

## Heuristic

Speak the user's language

Article #40362 ([eprint 40362](#) r1)

**Created by Shuo-Yuan Chang at 13 March 2021 19:38:42 UTC**

```
<eprint>
  <eprintid>40362</eprintid>
  <rev_number>1</rev_number>
  <userid>10460</userid>
  <dir>disk0/00/04/03/62</dir>
  <lastmod>2021-03-13 19:38:42</lastmod>
  <status_changed>2021-03-13 19:38:42</status_changed>
  <type>article</type>
  <metadata_visibility>show</metadata_visibility>
  <eprint_status>inbox</eprint_status>
  <full_text_status>none</full_text_status>
</eprint>
```

# Login, Profile, Logout - detail

## Problem

No password confirmation / potential issue for the email modification

## Heuristic

Provide clearly marked exits

**Edit**

[Cancel](#) [Save and Return](#)

**Account Details**

**Email address:**  [?](#)

**Hide Email:**

☐ Make email visible to all. [?](#)

☒ Hide email to all except repository administrators.


☐ UNSPECIFIED [?](#)

**Password:**  [?](#)

**Personal Details**

**Name:**

Title	First (Given) Name and Middle Name or Initials	Last (Family) Name
	Shuo-Yuan	Chang

**ORCID **  [?](#)

**Department:**

**Organization:**

**Address:**

**Country:**

**Homepage URL:**

[Cancel](#) [Save and Return](#)

# Login, Profile, Logout - detail

Good

Go to the edition page with the title link

Heuristic

Be Consistent, Provide Shortcuts

## Users - Shuo-Yuan Chang

<http://d-scholarship.pitt.edu/id/user/10460>

Edit

Details

User History

Profile

Edit

Email address: SHC151@pitt.edu

Name: Shuo-Yuan Chang

Organization: University of Pittsburgh

Hide Email: Yes

Unspecified fields: Department, Address, Country, ORCID, Homepage URL

Other defined fields

User ID Number: 10460

Revision: 4

Username: SHC151

User Type: Authenticated User

User Registration Date: 13 March 2021 19:20:53 UTC

Frequency of Items-under-review mailings: Never

Mail Empty Results: No

Manage deposits Fields: Item ID, Title, Item Type, Item Status, Last Modified



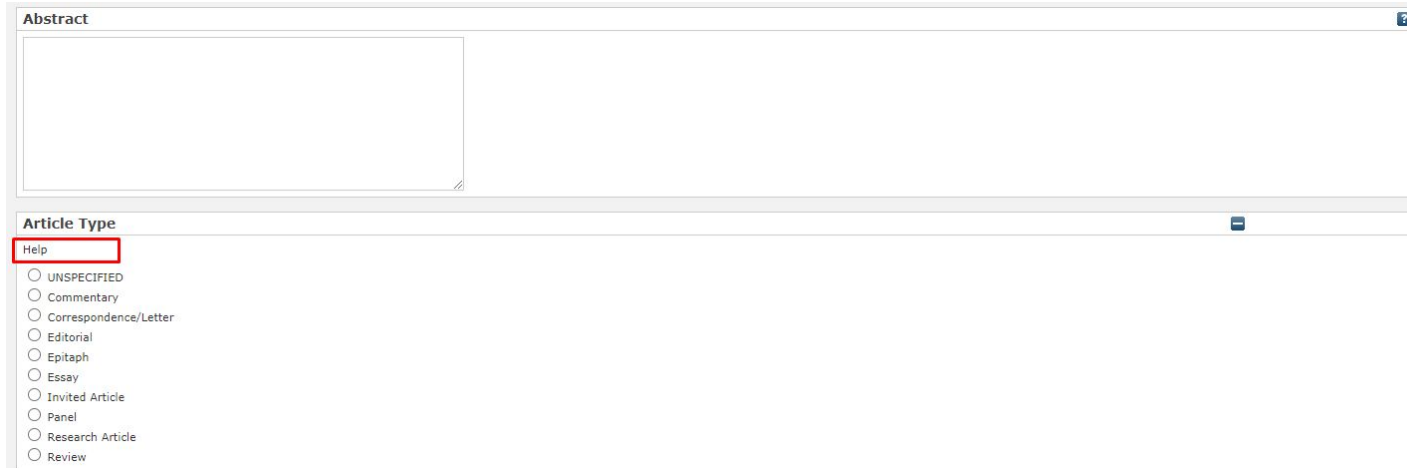
# Deposit Submission

Bad Feature:

- Help button for some form items does not display text
- Be Consistent

Possible Solution:

- Add text describing each item



The screenshot shows a web form with two main sections. The top section is titled 'Abstract' and contains a large, empty text area with a small icon in the bottom right corner. The bottom section is titled 'Article Type' and contains a list of radio button options. The 'Help' label for the first option is highlighted with a red box.

**Abstract**

**Article Type**

Help

- ☐ UNSPECIFIED
- ☐ Commentary
- ☐ Correspondence/Letter
- ☐ Editorial
- ☐ Epitaph
- ☐ Essay
- ☐ Invited Article
- ☐ Panel
- ☐ Research Article
- ☐ Review

# Deposit Submission - Details

Good Feature:






- Allowing user to save their deposit information and return before submitting
- Provide Shortcuts

< Previous

Save and Return

Cancel

Next >

Item ID	Title	Item Type	Item Status	Last Modified	
40345	User Feedback in Controllable and Explainable Social Recommender Systems: a Linguistic Analysis. In: Proceedings of Joint Workshop on Interfaces and Human Decision Making for Recommender Systems	Conference or Workshop Item	Under Review	13 Mar 2021 03:57	
40361	UNSPECIFIED	Article	User Workarea	13 Mar 2021 19:17	   

## Deposit Submission - Details

Bad Feature:

- Recommended author has duplicate values
- Prevent errors

Problem:

- Seven different Peter Brusilovsky presented in the database.

Possible Solution:

- Data cleaning
- Formatting strings entered by the user

The screenshot shows a web form for deposit submission. At the top, a dropdown menu is open, displaying a list of authors. The authors listed are: Brusilovsky, P PETERB (author of 107 items in this repository), Brusilovsky, Peter PETERB (author of 42 items in this repository), Brusilovsky, Peter peterb (author of 3 items in this repository), Brusilovsky, Peter peterb (author of 2 items in this repository), Brusilovsky, Alexandra (author of 1 item in this repository), Brusilovsky, PL PETERB (author of 1 item in this repository), Brusilovsky, Peter peterb (author of 1 item in this repository), and Brusilovsky, Peter (author of 1 item in this repository). Below this, there is a section for 'Article Type' with a list of radio buttons: UNSPECIFIED, Commentary, Correspondence/Letter, Editorial, Epitaph, Essay, Invited Article, Panel, Research Article, and Review. At the bottom, there is a section for 'Creators/Authors' with a table for entering author information. The table has two columns: 'Last (Family) Name' and 'First (Given) Name and Middle Name or Initial'. The first row is partially filled with 'brusilovs' in the first column.

	Last (Family) Name	First (Given) Name and Middle Name or Initial
1.	brusilovs	
2.		
3.		
4.		





## Confirmation of item being deposited

Good Feature:

- Confirmation of item being deposited
- Provide Feedback, Speak the User's Language



Item has been deposited.



Your item will not appear on the public website until it has been checked by an editor.



# Summary

Main features of website:

- Submit Deposit
- Searching

Overall fairly well designed

- Has numerous small issues that need addressed
- Has a few large issues

As a team we identified 33 different UAR's