

Ubiquitous and Mobile Computing

CS 528: *Unorganizr*

John Breen

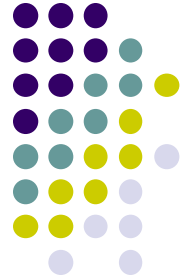
*Computer Science Dept.
Worcester Polytechnic Institute (WPI)*



Unorganizr: WPI Room Finder



Why Unorganizr?



[Home](#) [Events](#) [Locations](#) [Organizations](#)

[Search For Locations](#) [Pre-Defined Location Searches](#)

Pre-Defined Location Searches

Search Groupings

- Pre-Defined Groups
- Index
- Categories
- Features
- Layouts
- Capacities
- Public Searches

Select a Search Grouping (left) to browse existing searches.

- Higgins House
- Higgins Labs
- Kaven Hall**
- Olin Hall
- Quad
- Riley Commons
- Salisbury Labs
- Sports & Recreation Center

[Run](#)

[List](#) [Availability](#) [Calendar](#)

Date: [Wed Apr 27 2016](#) | [Same-Day Event View](#) | [Overlapping](#) | [Refresh](#) | [What is this view?](#)

What is the Availability view?

The **Availability View** shows the events scheduled in one or more locations on the selected date. It also shows any other restrictions on location availability, such as closing times. An empty time slot means the location is available at that time.


Art Department Meeting

Reservation: Meeting

Reserved: 10:00AM - 12:00PM

Reference: 2008-AAAMFG

Organization: DEPARTMENT OF DEANS



Hover over an event to see a brief summary, or click the event/color bar to load full details.

Click an empty slot below to start creating an event in that location at that time.

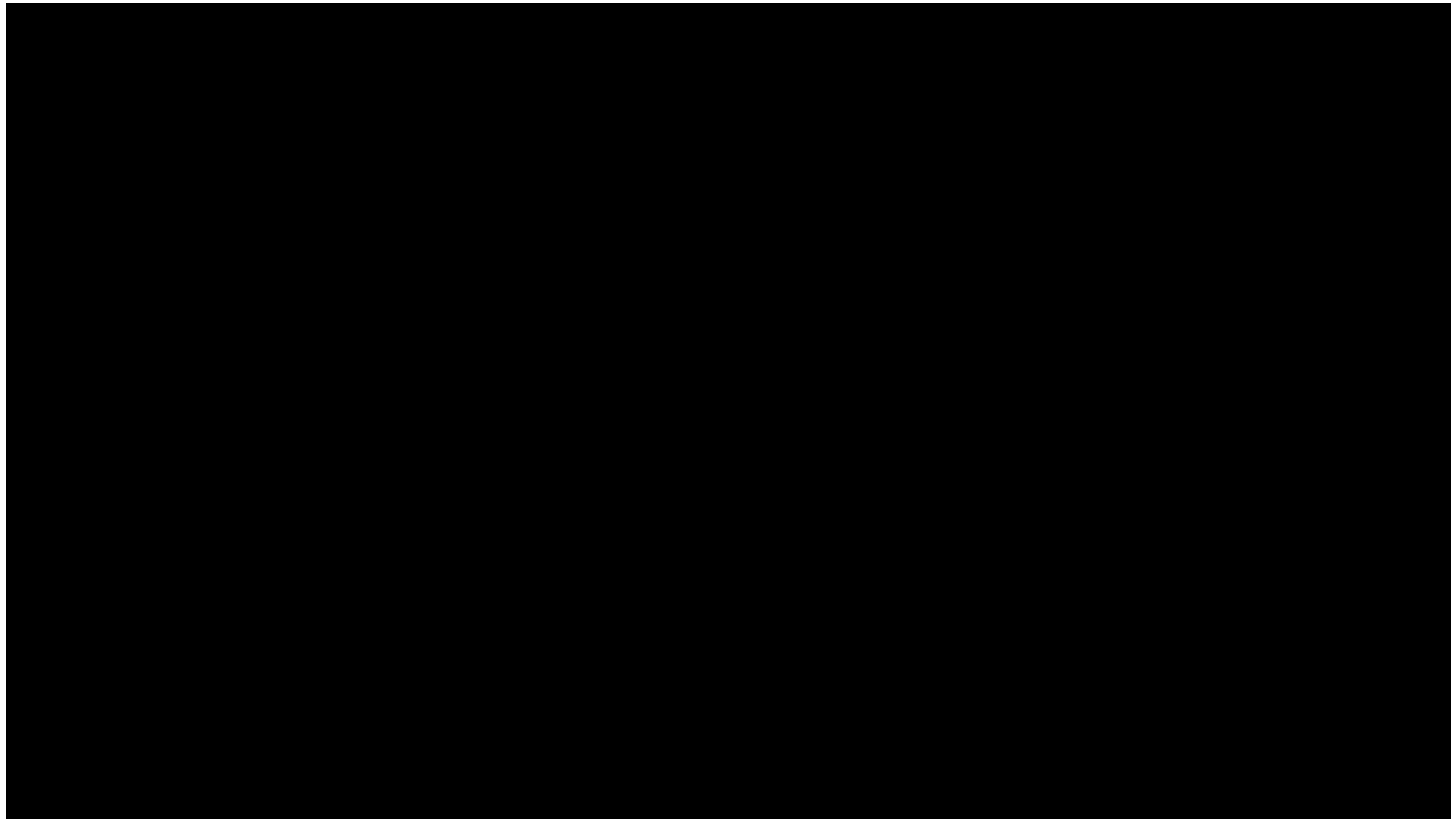
[Hide this Guide](#)

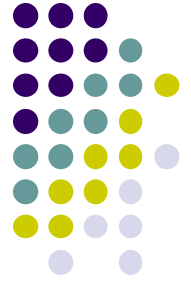
Name	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
KH 115	Closed				MINGJIANG TAO'S CLASS			ME 5313 091		GERMAN CONVERS			CE 590 191					
KH 116	Closed				CE 3062 061	GRADUATE PRESENTATIONS		PRESENTATION - AR			AREN 2025 001 MHP							
KH 203				CE 3030 061 MHP		CE 3030 062 MHP		CE 4054 061 MHP										
KH 204	Closed					WPT TOASTMASTERS				COMMUNITY SERVIC			CE 560 191					

Click and Drag dashed bottom border to resize Availability grid.

Information is current as of Apr 27 2016 12:10am

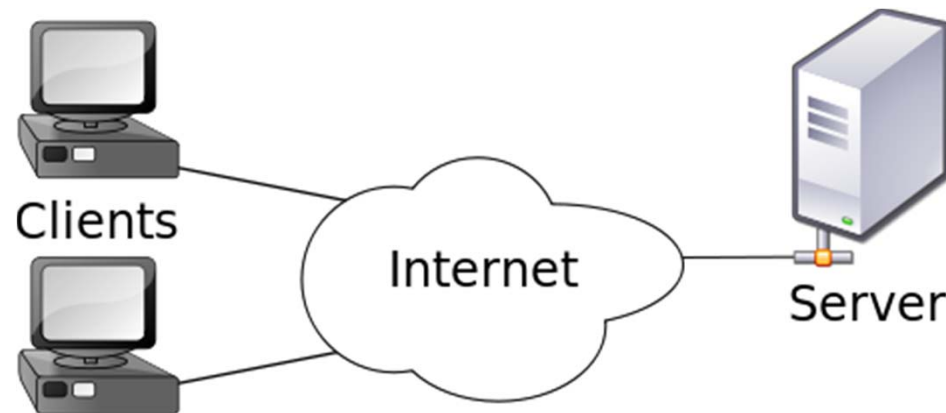
What is Unorganizr?



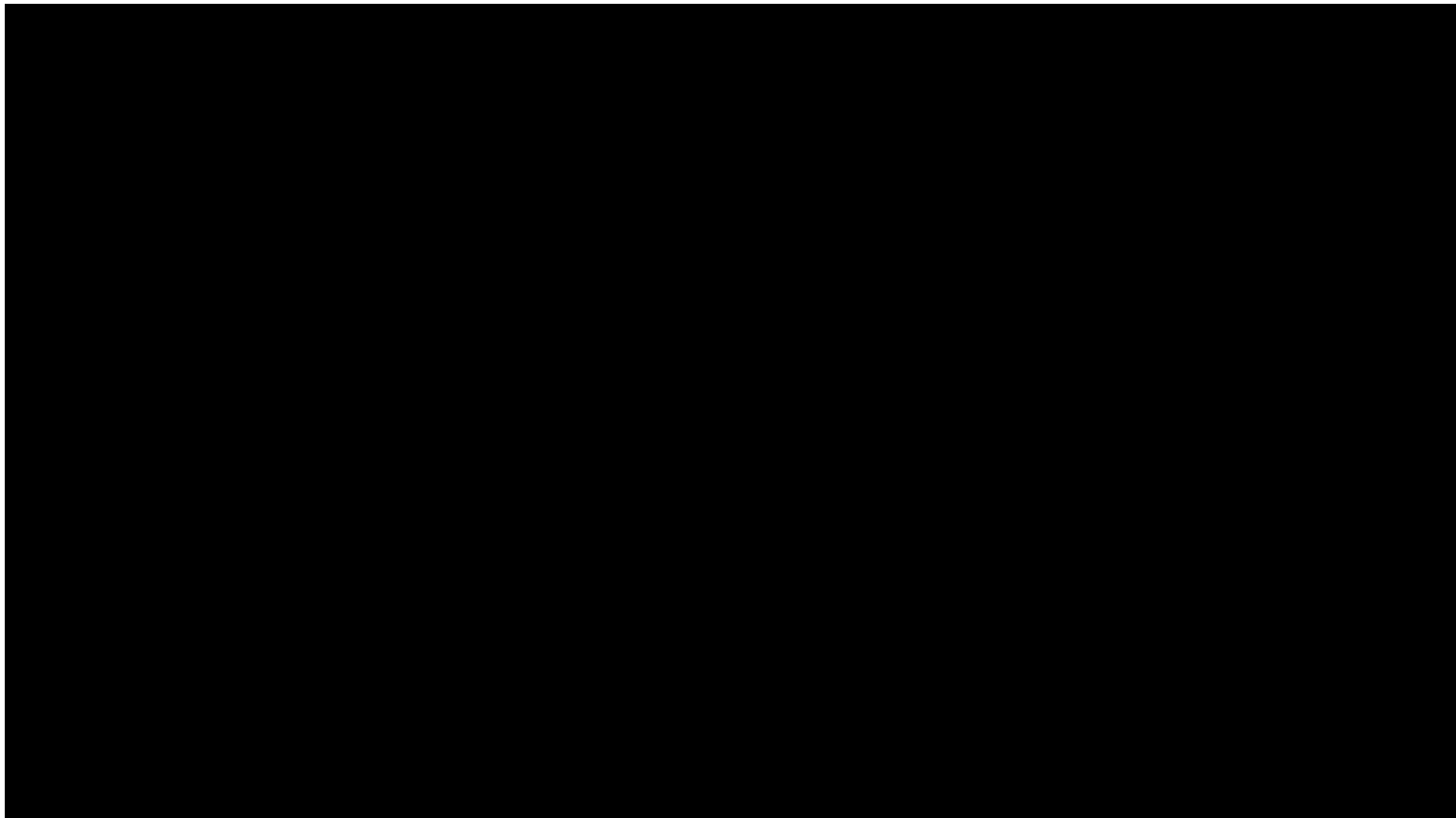


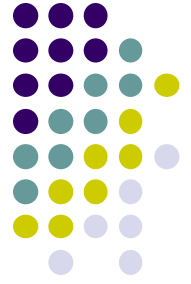
Unorganizr: How it Works

- Client sends Location -> Server
- Server -> List of Rooms and Status to Client
- Client Processes Information



Predicting User Behavior





Prediction: How it Works

- 2 Layer Neural Network
- Features
 - Accelerometer
 - GPS Location
 - Activity Features
- Adapts to User Behavior



Questions?



References

- Khunsri, Chulawadee. *iPhone App: Lecturer's Room Finder, UUM-CAS*. Diss. Universiti Utara Malaysia, 2011.
- Sharma, Ajay Shiv, et al. "CSLA—An application using Android Capstone project." *MOOC, Innovation and Technology in Education (MITE), 2014 IEEE International Conference on*. IEEE, 2014.
- Tarín, Diego Gargallo. *UJI's Smart Campus: Place Finder App*. Diss. 2013.