Yousef Alsabr   Abdulaziz Aldayel   Ahmed Alshakh   Chris Audette   Joey Rener   Roberto Kingsley

Problem
500 panelists, 200 Panels, 12 venues, 4 days. Schedule it!
The Conference on World Affairs has been running annually since 1948, scheduling all panels by hand. This process took two weeks. Our task was to automate this and produce a better schedule in seconds.

Future
- Build a user interface
- Generalizing the algorithm

Solution
The Rener-Alshakh Algorithm:
1. Score and sort the panels based on the difficulty of its constraints
2. Filter out venue timeslots based on the panel's constraints
3. Schedule in the best fit venue timeslot

Challenges
- Creating the best possible schedule in less than a minute
- Early deadline
- Support many different constraints on panels/panelists

CU NEWS

Computer science students help solve scheduling challenge for CU's Conference on World Affairs

Senior capstone class helped develop, deploy scheduling algorithm

By Sarah Kuta
Staff Writer

68TH CONFERENCE ON WORLD AFFAIRS
Monday, April 4, 2016

	Macky Auditorium	UMC Center Ballroom	UMC East Ballroom	UMC West Ballroom
9		Impacts of the Aging Population	How to Raise Money for Your Brilliant Idea	Technology is a Fetish
10	Obamacare: Easy to Repeal, Hard to Replace			
11		The 27 Words in the Second Amendment	Do Something! Become an Activist	Balancing Health & Environment
12	HOWARD HIGMAN MEMORIAL PLENARY: How Free Enterprise Can Solve Climate Change			
1		Views and Voices of Islam	What We Need in a President	Communism Won Some Battles but Lost the War
3	EBERT UNINTERRUPTUS Sunrise: A Song of Two Humans	Trigger Warning: This is a Political Correctness Panel	Modern Corruption	Girl Geeks Unite!