

# 2024 Midwest Conference Schedule September 20-21, 2024

Grand Valley State University (Robert C. Pew Campus) Grand Rapids, Michigan Meeting in DeVos D & E - <u>Student Showcase and Programming Contest Results</u>

Friday, September	20th						
9:00 am – 12:00 pm	Pre-Conference Workshop (DEV 205D ) FENDING OFF GITASTROPHE: A WORKSHOP ON ARCHITECTING COLLABORATIVE PROJECTS AND GIVING GREAT FEEDBACK Michael P. Rogers, Bill Siever						
11:00 am – 4:00 pm	Registration (Exhibition Hall – DEV 105E)						
1:00 pm – 1:15 pm	Conference Opening (Loosemore Auditorium – DEV 122E) Conference Chair, Site Chair, GVSU Welcome						
1:15 pm – 2:00 pm	Keynote Address (Loosemore Auditorium – DEV 122E) RAISING THE BAR: WHAT WORKS, WHAT DOESN'T, AND WHAT TO DO NEXT WITH ALTERNATIVE GRADING David Clark						
2:15 pm – 3:45 pm	Concurrent Session I						
	per Session #1 DEV 203D)	Industry Panel (Loosemore Auditorium	Vendor (Room: DEV 205D)				
	Chair: Karl Schmitt EVEN YEARS OF FRESHMEN	DEV 122E) Session Chair: Zachary Kurmas	Session Chair: Takako Som				
RETENTION DA COVID-19 ON UNI SCIEN	ATA AND THE IMPACT OF DERGRADUATE COMPUTER NCE STUDENTS	WHAT CS STUDENTS NEED TO HEAR FROM INDUSTRY	(2:15 pm to 2:45 pm) ACM CCECC AND ACM2Y OVERVIEW AND RESOURCES				
Suga	Coy, David Largent, andha Malviya	Kelsey Brennan Atomic Object	Ahmed AlMahmeed Pam Schmelz				
CS0 COURSE TO CURRICULUM	THE EFFECTS OF ADDING A O A COMPUTER SCIENCE :: A LONG-TERM STUDY	Tim Jaroch EliteOps	(2:45 pm to 3:45 pm) CodeGrade				
A COMPARATIVE PROGRESS: TE COMPETENCY-BA FOUNDATIONS O	E ANALYSIS OF STUDENT RADITIONAL TOOLS VS. SED EDUCATION IN CS 1310 OF COMPUTER SCIENCE AT	Scott Jasperse Consultant  Vincenzo Pavano Corewell Health	INTEGRATING GENERATIVE AI IN THI CODING CLASSROOM: RESPONSIBLE USE ANI IMPACT WITH CODEGRADE.				
Wass	ICHIGAN UNIVERSITY snaa Al-Mawee	Carmen Rodriguez MillerKnoll	Youri Voet				
3:45 pm – 4:15 pm	<b>Break</b> (Exhibition Hall – DEV	(105E)					
3:45 pm – 5:45 pm	Student Posters & Showcase	(Exhibition Hall – DEV 105E) Cha	nir: Dave Largent, Andy Harr				

CCSC:MW Schedule Page 1 of 8

Friday, September 20th - Continued						
4:15 pm – 5:45 pm	Concurrent Session II					
(Loosei	er Session #2 more Auditorium DEV 122E)	Tutorial (DEV 205D)	Tutorial (DEV 203D)			
LEVERAGING CRYPTOGR	Chair: Md Haque VISUALIZATION FOR APHY EDUCATION ad Al Saeed	ANALYZING THE CONTENTS OF AI BENCHMARKS USING PYTHON	COURSE IN A BOX: AI  Ramachandra B.  Abhyankar			
Charles Mor	NG SOFTWARE SECURITY COURSE eno, Carson Peterson, berg, Bruce DeBruhl	Bill Nicholson				
	AGGREGATE FUNCTIONS mil Saquer					
6:00 pm – 7:45 pm	Dinner and Evening Addres TRENDS IN SOFTWARE DE Jonathan "J" Tower, Trailhe		UTURE NOW: THE TOP			
8:00 pm – 8:30 pm	CCSC Midwest Region Business Meeting (DEV 205D) Note: Steering Committee Immediately following					
8:00 pm – 10:45 pm	Student Programming Competition Practice Session (TBD), Paul Talaga, Md Haque, Nathan Sommer					
9:00 pm – 10:00 pm	Two-Year Institutions BOF (	(DEV 203D), Kris Roberts				

CCSC:MW Schedule Page 2 of 8

Saturday, September 21st							
7:30 am – 8:30 am	Continental Breakfast (Room: Exhibition Hall –	DEV 105E)					
8:00 am – 12:00 pm	Student Programming Contest (TBD), Paul Talaga, Md Hague, Nathan Sommer						
8:30 am – 10:00 am Concurrent Session III							
Panel	Works In Progress	Tutorial					
(DEV 203D)	(Loosemore Auditorium DEV 122E)	(DEV 205D)					
	Session Chair: Dominic Wilson						
USING CS2023 TO CREATE COMPUTER SCIENCE COURSES AND CURRICULA	ENHANCING STUDENT ENGAGEMENT AND INTERDISCIPLINARY RESEARCH WITH IOT AND DRONE FRAMEWORKS Ahmed A. Elmagrous, Saleh M. Alnaeli	SUPERCHARGING PYTHON SCRIPTING EDUCATION WITH CHATGPT! HOW I USE CHATGPT IN MY ADVANCED PYTHON SCRIPTING CLASS					
Cathy Bareiss, Amruth N Kumar	AUTOMATED THREAT DETECTION TO SUPPORT THE PROCESS OF SECURITY REQUIREMENTS ELICITATION Sugandha Malviya	Pak Kwan					
	A MALLEABLE FRAMEWORK FOR EFFICIENT LEARNING Pradip Peter Dey, Mohammad Amin Bhaskar Raj Sinha, Hassan Badkoobehi						
	TOOL SUPPORT FOR TEACHING DEDUCTIVE DATABASES Ramachandra B. Abhyankar						
	THE CHANGING FACE OF COMPUTER SCIENCE EDUCATION – WHAT LIES BEHIND AND WHAT LIES AHEAD?  Anuradha Rangarajan, Calvin Nobles,  Maurice Dawson, Rangarajan  Parthasarathy						
	ARTIFICIAL INTELLIGENCE IN THE HIGHERED CLASSROOM – BOON OR BANE? Anuradha Rangarajan, Calvin Nobles, Maurice Dawson, Rangarajan Parthasarathy						
10:00 am – 10:30 am	<b>Break</b> (Room: Exhibition Hall – DEV 105E)						

CCSC:MW Schedule Page 3 of 8

10:30 am – Noon	Concurrent Session IV			
Nifty Assignments	Paper Session #3	Tutorial		
(Loosemore Auditorium DEV 122E)	(Room: DEV 205D)	(DEV 203D)		
,	Session Chair: Stefan Brandle			
Session Chair: Ahmed Elmagrous				
Ç	DEVELOPING AN	GRADING ACCORDING TO		
AI AS A LEARNING TOOL FOR	OPENCV-BASED APP FOR	SPECIFICATIONS: A TUTORIAI		
INTRODUCTORY PROGRAMMING	SEGMENTING CELLS IN	AND DISCUSSION		
James Roll	TOMATO FRUIT TISSUE			
	Jorge Daniel Quinteros,	David Largent		
STOPPING TO TEACH THE	Lei Zhang,	_		
HALTING PROBLEM	Esther van der Knaap			
Edward Aboufadel,	Sofia Visa			
William Dickinson				
	PEDAGOGICAL			
CHECKSUMS EVERYWHERE	IMPLICATIONS OF PARSER			
James K. Huggins	COMBINATORS IN			
	PROGRAMMING LANGUAGES			
UNUSUAL STANDARDS	COURSES: A COMPARATIVE			
James K. Huggins	STUDY			
DICHEDONT OF FOLUEADIE	Abbas Attarwala, Pablo Raigoza			
IN SUPPORT OF EQUITABLE	HODIC PRODUCM DRIVEN			
GRADING PRACTICES: A TOOL TO	USING PROBLEM-DRIVEN			
AUTO GENERATE MULTIPLE	LEARNING TO TEACH			
VERSIONS OF PAPER QUIZZES	COMPUTATIONAL THINKING IN CS1			
Amy Larson	Rocky K.C. Chang			
BUILDING STRONG	NOCKY N.C. CHAIR			
PROGRAMMING SKILLS WITH				
WEAK ENCRYPTION				
Amy Larson				
miy Edison				
12:15 pm – 1:15 pm	Lunch Break (Room: Exhibition Ha	ll – DEV 105E)		
1:15 pm – 2:15 pm	CCSC: MW 2025 Conference Plan	· (DELL 202D)		

The CCSC Midwest Conference Committee thanks our National Partners ACM2Y & ACM CCECC, Code Grade, GitHub, and Rephactor for their continued support of our activities and UPE for student prizes

CCSC:MW Schedule Page 4 of 8

#### 2024 Midwest Conference Zoom Links

Links are provided for all sessions. Participants are expected to register (and pay) for most sessions (with exception of Industry Panel). Logins are monitored.

Friday Morning Workshop: 8:30 am - 12:00 pm (noon)

https://betheluniversity-edu.zoom.us/j/81848226468?pwd=eX4ivGQXN443CmLyrVwdQauXaf5Bmm.1

Meeting ID: 818 4822 6468 Passcode: 781897

Friday Conference Session: 12:00 pm (noon) to 8:00 pm

(Includes free WHAT CS STUDENTS NEED TO HEAR FROM INDUSTRY panel 2:15 pm)

https://betheluniversity-edu.zoom.us/j/81517706124?pwd=kWooz22v21bNoAAPGMla0fju1n1V1g.1

Meeting ID: 815 1770 6124 Passcode: 732334

Friday Programming Competition: 7:30 pm - 11:15 pm

https://betheluniversity-edu.zoom.us/i/81075899451?pwd=A5gulolVUFPS6uuKki8nwoADATzoDU.1

Meeting ID: 810 7589 9451 Passcode: 466370

Saturday Programming Competition: 7:30 am - 12:30 pm

https://betheluniversity-edu.zoom.us/j/81281138076?pwd=9dJwTK6fzTigHH1Q24959FN80RNb2j.1

Meeting ID: 812 8113 8076 Passcode: 355404

Saturday Conference Session: 8:00 am -1:15 pm

https://betheluniversity-edu.zoom.us/j/82399066369?pwd=oaTDTTG7hYqd1OHw128FEakkdz4VnA.1

Meeting ID: 823 9906 6369 Passcode: 212731

CCSC:MW Schedule Page 5 of 8

### Parking & Other Information

The conference is located on the downtown campus (Robert C. Pew Grand Rapids Campus) in the Richard M. DeVos Center (DEV). Campus map: https://www.gvsu.edu/homepage/files/pdf/maps/robertc.pewgrandrapidscampus.pdf

Grand Valley State University 401 West Fulton Street Grand Rapids, MI 49504-6431

**Parking:** On Friday, please park in the <u>Seward ramp</u>. You will have to **stop at the booth and get a free parking pass** from the attendant. You may park in the closer DeVos surface lot on Saturday.

The entrance to the Seward ramp is on the south side of Lake Michigan drive between Seward Ave NW and Winter Ave.

- If you are on US 131, exit at Pearl street and head West. Pearl becomes Lake Michigan Drive. The entrance will be on your left just past the railroad tracks.
- If you are on I-196, exit at Lake Michigan drive. After you exit, the road will curve sharply to the right and become Fulton St. Take Fulton East about 1 mile, then turn left (North) on Seward Ave. The next light is Lake Michigan Drive. Turn right (East) on Lake Michigan Drive. The entrance to the ramp is immediately on your right (South).

Art Prize: While you are in town, you should definitely check out Art Prize. Art Prize is a unique competition/exhibition that takes over most of downtown. Many businesses downtown will be exhibiting a few pieces of art. There are also a handful of major venues that will have many of the most popular pieces. The Ford Museum, DeVos Place, the Amway Grand Hotel, and the BOB are four of my personal favorite venues every year. These are all within walking distance of the conference and the downtown hotels. At minimum, I encourage you to take an hour or two and check out some of the most popular exhibits before heading back home.

See <a href="https://www.artprize.org/">https://www.artprize.org/</a> for more details.

**Restaurants:** There are more good restaurants downtown than I can list here. Some of my favorites are

- Angel Thai 136 Monroe Center Street Northwest https://angelthaicafe.com/
- Two Beards 38 Commerce Ave SW <a href="https://twobeardsdeli.com/">https://twobeardsdeli.com/</a>
- Tupelo Honey 140 Ottawa Ave <a href="https://tupelohoneycafe.com/restaurant/grand-rapids/">https://tupelohoneycafe.com/restaurant/grand-rapids/</a>

These are some of my friends' favorites:

- San Chez Tapas 38 W Fulton https://www.sanchezbistro.com/
- Stella's Lounge 53 Commerce Ave. <a href="https://www.stellaslounge.com/">https://www.stellaslounge.com/</a>

**Beer:** Grand Rapids likes to call itself "Beer City". Perhaps the most famous brewery in town is Founders (https://foundersbrewing.com/); but there are many breweries within a mile of the conference venue and hotels.

CCSC:MW Schedule Page 6 of 8

### **Congratulations to our Student Showcase Participants!**

#### 1st Place

Mexer: Materials, EXergy, and EneRgy Visualizer

Kenneth Howes & Edom Maru, Calvin University

(Presented by Kenneth Howes)

#### 2nd Place

Using a Haptic Sensor to Train Proper Grip in Tennis Players Mackenzie Niswonger & Christopher Laubach, Hope College

#### **3rd Place**

Flood Detection Warning System

Carter Meyer, The University of Wisconsin-Stout

## Congratulations to our Student Programming Contest Participants!

Novice - 1st Place
Solo Duo
Kephas Raimi, University of Indianapolis

Regular - 3rd Place

IndentationError

Jonathan Gonzalez Martinez, Garrett Davis, University of Indianapolis

Regular - 2nd Place

The Red Buckets

Joan Gaine, Stephen West, Zach Winterfeldt, Minnesota State University Mankato

Regular - 1st Place

Blue Buckets

Mackenzie White, Hawi Atinafu, Nahome Woinu, Minnesota State University Mankato

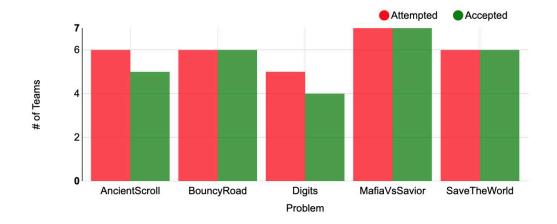
CCSC:MW Schedule Page 7 of 8

### **Programming Contest Statistics**

- 8 teams (15 last year)
- 5 Institutions (7 last year)
- 17 Students
- 7 Regular teams (2 on-site)
- 1 Novice team

### **Programming Contest Problems**

- 5 Coding Problems Solutions in C++, Java, Python
- All teams who participated got at least 1 problem
- 4 teams solved all problems



RANK		TEAM	sc	ORE	ANCIENTSCRO	LL B	OUNCY <b>R</b> OAD	DIGITS	MafiaVsSavior	SAVETHEWORLD
1	*	Regular Team Blue Buckets Minnesota State University Mankato	5	399	176 2 tries		29 2 tries	69 2 tries	22 1 try	43 1 try
2	*	The Red Buckets Minnesota State University Mankato	5	556	109 5 tries		41 2 tries	93 2 tries	70 3 tries	63 2 tries
3		IndentationError University of Indianapolis	5	569	188 6 tries		36 1 try	60 2 tries	74 1 try	91 1 try
4	2	The Quantums Calvin University	5	1005	230 2 tries		179 4 tries	121 1 try	214 1 try	161 2 tries
5		Findlay 1 University of Findlay	4	403	15 1 try		28 1 try	9 tries	63 1 try	177 7 tries
6	8	The girls.  Butler University	3	535	7 tries		159 2 tries	2 tries	152 1 try	204 1 try
7	8	Not Null Butler University	0	0						
Summary		27		<ul><li> 5</li><li> 18</li><li> 0</li><li> 15min</li></ul>	it 14 0	6	■ 4 ■ 14 ② 0 ■ 60min	<ul><li>1 € 6</li><li>1 € 2</li><li>2 0</li><li>0 22min</li></ul>	<ul><li>6</li><li>♠ 8</li><li>0</li><li>♦ 43min</li></ul>	
1	7	Novice Solo Dolo University of Indianapolis	1	72					72 1 try	
Summary 1			• 0 • 0 • 0 • 0 • n/a	0 14 14	0	0	1 1 0 0 0 72min			

CCSC:MW Schedule Page 8 of 8