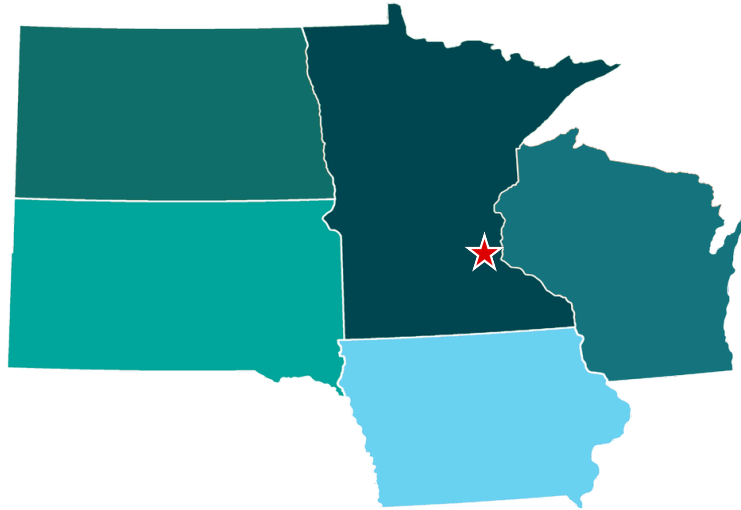


MICS 2024 Program Augsburg University



Check In: 12:00 – 2:00 pm

Welcome and Announcements

1:00 – 1:15 pm Hagfors Center 150

[MICS 2024 Guest WiFi Network](#)

SSID: mics2024 Password: AugU1869

Technical Session 1: 1:30 – 2:30 pm - Friday April 5, 2024

AI Classification: Hagfors 351		Session Chair: Muhammad Abusaqer
1:30	Text Detection between an AI Written Passage vs. a Human Written Passage	Saif Khan, Kaif Khan, and Muhammad Abusaqer
2:00	Firefly Spark Classification Optimization	Jacob Olinger and Simone Ludwig

Data Science Prediction: Hagfors 352		Session Chair: Ben Paulson
1:30	NourishNet: Proactive Severity State Forecasting of Food Commodity Prices for Global Warning Systems	Ben Paulson, Sydney Balboni, Ella Bruce, John Cisler, Caitlyn Grant, Grace Ivey, Tyge Plater and Brett Storoe
2:00	Predicting Campus Crime Based on State Firearm Policy	Travis Smith and Muhammad Abusaqer

Audio: Hagfors 367		Session Chair: Hugo Garrido-Lestache
1:30		
2:00	Synthesizing Audio from Silent Video using Sequence to Sequence Modeling	Hugo Garrido-Lestache Belinchon, Helina Mulugeta and Adam Haile

Games: Hagfors 373		Session Chair: Sieger Canney
1:30	Using The Video Gaming Industry As A Lens To Understand The Potential Benefits And Effects of Machine Learning	Sieger Canney
2:00	The Hearts of AI	Mitchell Johnstone, Sam Keyser, Zachary Wentz, Franklin Cole and Charles Nortrup

Break: 2:30 – 3:00 pm - Snacks in Hagfors Center Atrium

Technical Session 2: 3:00 – 4:00 pm - Friday April 5

Music Education: Hagfors 351		Session Chair: Preston Scott
3:00	Melodic Equality: Advancing Music Education through Automated Lesson Generation	Preston Scott and Benjamin Fine

Faculty Grading: Hagfors 352		Session Chair: Amy Larson
3:00	Beyond Traditional Grading: Harnessing Oral Interviews and Code Reviews for Student Success in Computer Science	Benjamin Fine
3:30	Improving Student Success in Introduction to Programming through Reimagined Assignments, Equitable Grading, and Peer Instructors	Amy Larson

Image Processing: Hagfors 367		Session Chair: Jacob Jensen
3:00		
3:30	Global Echoes of the FIFA World Cup 2022: Sentiment and Theme Analysis via Deep Learning and Machine Learning on Twitter	Jacob Jensen and Muhammad Abusaqer

Medical Imaging: Hagfors 373		Session Chair: Christian Basso
3:00	Adapting Diffusion-Based Image-to-Image Translation Models for Immunohistochemical Image Generation in Breast Cancer Diagnosis	Christian Basso, Caleb Andreano and Ben Gadiano
3:30	Mind over (Gray) Matter: Homologous Point Transform Application to Brain Histology and MR Domains	Caleb Gray, Alexander Neher, Sonia Grade, John Bukowy, Peter LaViolette, Bart Gebka, Abigail Draper and Mikolaj Sordyl

Robotics Contest and Pizza Party

4:30 – 6:15 pm in Hagfors Center Atrium

Sponsored by:



Programming Contest Announcements

6:30 – 7:00 pm in Hagfors Center Atrium

Programming Contest

7:00 – 10:00 pm in Hagfors 150

Technical Session 3: 9:00 – 10:00 am - Saturday April 1

CS Education: Hagfors 351		Session Chair: Nolan Dowling
9:00	FactoryCode: A Feasibility Study on a Novel Dynamic Code Visualization Tool for Introductory Programming Courses	Nolan Dowling, Ethan Kilmer and Danny Schmidt
9:30	Exploring Mojo: A Comparative Analysis of its Suitability as a Replacement for C++ in Computer Science Education	Evan Wiebe and Ryan Harvey

Math -Agent / Swarm : Hagfors 352		Session Chair: Asher Sprigler
9:00	Synergistic Simulations: Multi-Agent Problem Solving with Large Language Models	Asher Sprigler, Alexander Drobek, Keagan Weinstock, Wendpanga Tapsoba, Gavin Childress, Andy Dao, Lucas Gral
9:30	Towards Flexible and Scalable Control Systems for Swarm Robotics: A Literature Review and Proposed Design	Miles Bourassa, Jack Ford, Mitchell Johnstone, Sam Keyser, Matt Korfhage, William Lassiter, Philip Lewander, Christian Orozco, Matt Senn, Asher Sprigler and Brett Storoe

Cyber: Hagfors 367		Session Chair: Anushka Hewarathna
9:00	“That privacy policy said what ?” Exploring Issues with Privacy Policy Comprehension and Privacy Fatigue	Anushka Hewarathna, Craig Overboe, Yixiang Zhang and Jiajun Liu
9:30	Securing the Future of Federated Learning in Artificial Intelligence: A Comprehensive Review of Security Challenges, Solutions, and Future Direction	Riya Patel, Olalekan Raji, Mamadou Barry and Akalanka Mailewa

LLM : Hagfors 373		Session Chair: Ye Yint Win
9:00	Researching and Testing ChatGPT and its Competitors, Separating the Hype from the Facts	Ye Yint Win, Nathan Kraft and Ahmed Kamel
9:30	Using AI to Detect Lies: Determining the Truthfulness of Math LLMs	Alex Ewart, Mikhail Filippov, Jack Dorner, Josiah Yoder, Xander Neuwirth and Daniel Portwine

CS Education: Hagfors 152		Session Chair: Mark Fienup
9:00	Impact of Generative Artificial Intelligence Tools on the Instruction of the Data Structures Course	Mark Fienup
9:30	GeniusDeck: An LLM-driven Web Application Revolutionizing Student Learning	Brendan Chermack, John Klein, Matthew Molenaar, Ashesh Nepal, Terrance Wallace and Jalal Khalil

Break: 10:00 – 10:30 Snacks in Hagfors Atrium

Technical Session 4: 10:30 – 11:30 - Saturday April 6

American Sign Language : Hagfors 351		Session Chair: Nolan Dowling
10:30	Enhancing American Sign Language Learning through Landmark-Based Recognition and Sequence Modeling	Leigh Goetsch, Aiden Miller, Liam Otten, Tyler Schreiber and Michael Conner
11:00	Harnessing FPGA Acceleration for Real-Time Sentiment Analysis in Music Waveforms	Asher Sprigler and Jacob O'Shaughnessy

DB & Compilers : Hagfors 352		Session Chair: John Walbran
10:30	Large Language Models Based Compiler Optimization: Summary of Recent Work and a Proposed Framework	John Walbran and Wenkai Guan
11:00	An Analysis of a MySQL Inventory Database and Potential Memory Vulnerabilities	Tan Nguyen, Erich Rice and Dennis Guster

Code Viz : Hagfors 367		Session Chair: Collin Hemze
10:30	MATQVis: A Web-Based Query and Visualization Tool for MATSim	Collin Hemze, Khaled Shaheen, Faisal Shaheen and Jalal Khalil
11:00	Concurrency Visualization: Three Ways	Shuta Kumada and Samantha S. Foley

Cyber : Hagfors 373		Session Chair: Adow Ali
10:30	The Human Factor in Cybersecurity: Understanding Psychology, Training Efficacy, and Error Reduction Strategies	Adow Ali, Craig Overboe, Thivanka Mohottalalage and Akalanka Mailewa
11:00	Decoding the Cyber Battlefield: A Review of Threats, Tactics, and Defensive Strategies in Cyber Warfare	Deb Saha, Thivanka Mohottalalage and Akalanka Mailewa

Med & AI: Hagfors 152		Session Chair: Mitchell Mahnke
10:30	Reading Between the Lungs: Evaluation of Deep Learning Model Architectures for COVID-19 Classification on Segmented Chest X-rays	Mitchell Mahnke, Evan Schubert, Will Sebelik-Lassiter and Theodore Colwell
11:00	The AI Applications in Radiology: Regulation, Evaluation, and Usage	Jacob Olinger and Olga Scrivner

Awards Ceremony

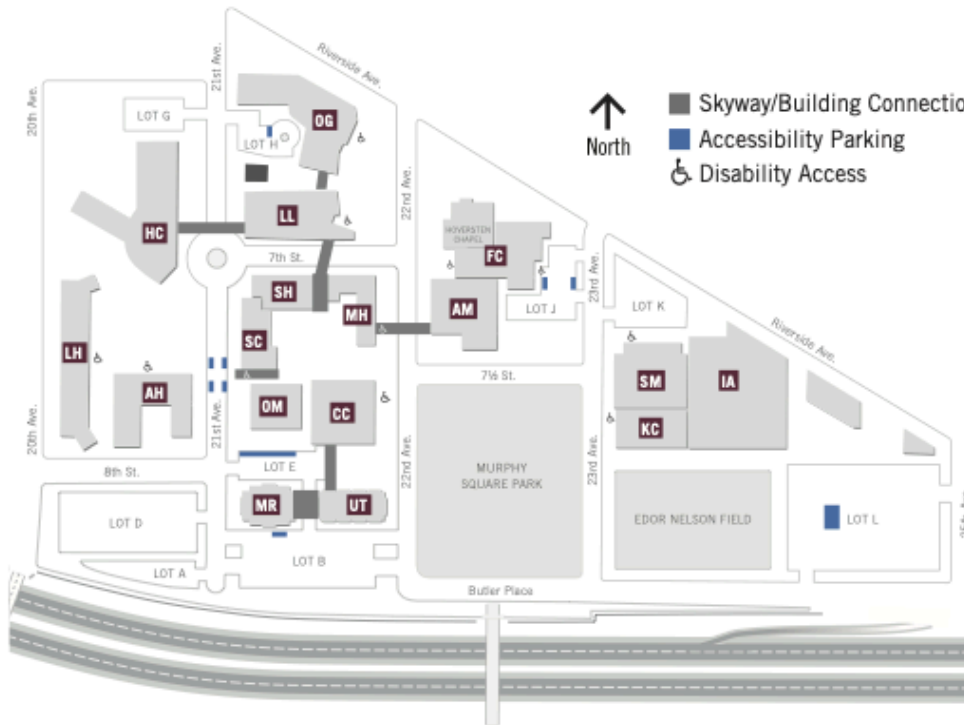
11:45 – 12:15 pm in Hagfors Center 150

Box Lunches and Dismissal

12:30 pm in Hagfors Center Atrium

CAMPUS MAP

2211 Riverside Avenue, Minneapolis, MN 55454
In case of an emergency call the Department of Public Safety at 612-330-1717.



- AM** Anderson Music Hall
- AH** Anderson Residence Hall
- CC** Christensen Center
- FC** Foss Lobeck Miles Center
- HC** Hagfors Center
- IA** Ice Arena
- KC** Kennedy Center
- LL** Lindell Library
- LH** Luther Residence Hall
- MH** Memorial Hall
- MR** Mortensen Residence Hall
- OM** Old Main
- OG** Oren Gateway Center
- SC** Science Hall
- SM** Si Melby Hall
- SH** Sverdrup Hall
- UT** Urness Tower

PARKING

- A. Faculty/Staff Permits
- B. Residential/Commuter Student
- C. Commuter Student
- D. Faculty/Staff Permits
- E. Short-Term Visitor (3 hour max)
- G. Faculty/Staff Permits
- H. Reserved *
- J. Reserved **
- K. Commuter Student
- L. General Permit Parking

OFF CAMPUS PARKING

- M. Faculty/Staff Permits
2001 Minnehaha Ave.
- O. Faculty/Staff Permits
2511 Franklin Ave. East

OFF CAMPUS PARKING ON FRANKLIN AVE.



*Not to scale or relation with campus map

ALL LOTS REQUIRE A PERMIT 24 HOURS A DAY, SEVEN DAYS A WEEK.

augsburg.edu/about/map

Updated December 12, 2017 8:39 AM

Park in Lot D or L: (no permits required in those lots)

Important Contacts:

mics2024@micsymposium.org

Augsburg University Public Safety at 612-330-1717

Nearby Restaurants:

Nabo - located in Oren Gateway Center (Friday until 6pm, closed Saturday)

Einstein's - located in Christensen Center (Friday until 8pm, Saturday 7:30am to 3pm)

Jimmy John's - located on Riverside just north of Hagfors (10:30am to 10pm)

Oasis Mediterranean Grill - located on Riverside & 20th just north and west of Hagfors (11am-8pm)