Michigan Technological University
Computer Science

Highlights 2021-2022

Faculty
- 21 Tenure-track/Tenured
- 2 Lecturer Track

Enrollments – Fall 2021

<table>
<thead>
<tr>
<th>Program</th>
<th>BS</th>
<th>MS</th>
<th>PhD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science</td>
<td>448</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>Software Engineering</td>
<td>96</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cybersecurity</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Science</td>
<td></td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

New Faculty

Dukka KC
Associate Professor
Areas of Expertise:
- Bioinformatics
- Data Science
- Machine Learning/Deep Learning
- High-performance Computing

Xinyu Lei
Assistant Professor
Areas of Expertise:
- Machine Learning
- Cybersecurity

Recognitions

Briana Bettin – 2022 Michigan Tech Distinguished Teaching Award
Tim Havens – Appointed Director of the Great Lakes Research Center

Student Highlights

Fall 2021 NCL cybersecurity competition – Michigan Tech ranked 10th out of nearly 4000 teams.

Funding Highlights


Ureel, L, Copper Country Coders Virtual Courses for U S Embassy in Bahrain, US. Dept of State

Oommen, T, Havens, T, Kueber, Watkins, M, Meadows, G, SCC-CIVIC-FA Track B: Helping Rural Counties to Enhance Flooding and Coastal Disaster Resilience and Adaptation, NSF

Pastel, R, Morgan, C, ENTERPRISE: Real Time Strategy Game for Military Commanders Phase 2 and Investigation of VR/AR/XR Technology Applied with Eye and Hand Interaction, National Center for the Advancement of STEM Education

Marcarelli, A, Brown, L, Kane, E, Techtmann, S, Emergent linkages between DOM composition microbial assemblages and respiration in streams, NSF

Lei, X, CRII: SaTC: Enabling Secure Machine Learning Queries over Encrypted Database in Cloud Computing, NSF

Ureel, L., Brown, L., Rich Immediate Critique of Antipatterns (RICA) in Novice Programmer Code: Broadening Adoption Supporting Student Learning and Enhancing Programming Competencies, NSF

Onder, S., SHF: Medium: Collaborative Research: Statically Controlled Asynchronous Lane Execution (SCALE), NSF

KC, D., III: Medium: Collaborative Research: Multi-level computational approaches to protein function prediction, NSF

Havens, T., Operation and Maintenance: High Frequency Radar in the Straits of Mackinac Michigan - Year IV, Great Lakes Observing System

http://www.mtu.edu/cs