



Reconnect Workshop 2024: Artificial Intelligence

About Reconnect: Reconnect workshops expose faculty teaching undergraduates to current applications of mathematical and computational sciences and provide an opportunity for government or industry professionals to learn about recent research in related areas. The topic will be presented over the course of 3 days in a series of lectures and activities. Participants will be involved in activities that they and their students can continue to use and explore after the workshop. They will begin to draft modules that can be used in their classrooms and others around the country.

Where: Mendenhall Inn, Chadds Ford, PA

When: June 16-19, 2024

Organizer: Margaret (Midge) Cozzens, DIMACS, Rutgers University

Primary Speaker: Vivek Singh, Rutgers University. Vivek Singh is an Associate Professor in the School of Communication and Information at Rutgers University. His research lies at the intersection of Computational Social Science, Data Science, and Multimedia Information Systems, developing new algorithms, interfaces, and frameworks that aim to maximize the good of technology (e.g., predicting mental health issues) while minimizing the potential harms (e.g., privacy loss).

Topic: The featured topic for Reconnect changes each year. This year's topic is a two-way exploration of **AI for Security and Security for AI**.

The interplay between Artificial Intelligence (AI) and security is a dynamic and rapidly evolving field with the potential to transform our approach to cybersecurity. AI can be harnessed to bolster security measures, enabling the detection of threats and anomalies with unprecedented accuracy and speed. For example, the automatic flagging of suspicious activity on a credit card is a crucial safeguard for an individual's financial well-being.

However, like any technology, AI itself requires robust security measures. Technical and socio-technical vulnerabilities in AI models can be exploited by malicious actors to manipulate outcomes or make harmful societal decisions. It's crucial to recognize these potential pitfalls and take proactive steps to mitigate them.

Reconnect 2024 will delve into these topics, exploring the symbiotic relationship between AI and security. The workshop will discuss various technologies and practical use cases, shedding light on the two-way interactions at this intersection. This comprehensive exploration aims to equip participants with a nuanced understanding of the challenges and opportunities in this exciting field.

Anyone may apply to attend Reconnect. Preference will be given to Community College faculty.

Registration fees, lodging, meals and travel: Accepted participants from US academic institutions receive lodging in a single room and meals at no charge.

Deadline for Applications is March 15, 2022 or until all slots are filled. Applications are reviewed as they are received. The application is available on the workshop webpage.

For more information: Contact Isha Cole-Glaster or Midge Cozzens (ishadc@dimacs.rutgers.edu or mcozzens@dimacs.rutgers.edu) or visit the Reconnect webpage on the DIMACS website.

Webpage: <http://dimacs.rutgers.edu/events/details?eID=2730>