



THE WEEKLY

International Symposium on DTx, Digital Therapeutics



International Symposium on DTx, Digital Therapeutics

This symposium, organized by George Mason University and sponsored by NCSOFT, aims to bring together a dynamic group of international professionals interested in digital therapeutics, including academics, healthcare providers, regulators, government funding agencies, and game designers/developers. The symposium will focus on the current trends and applied research implications utilizing innovative digital technologies in digital therapeutics and explore the potential of how these new practices of digital therapeutics could be used to innovate 21st-century healthcare research and practice. Also, this symposium will embrace new ideas and defy conventional thinking to advance the field of digital therapeutics.

Symposium topics: The topics of the symposium included, but not limited to, the trends in the development of DTx, Digital Therapeutics games and applications in the past and present, the current landscape of Digital Therapeutics, future prospects of Digital Therapeutics and its implications, various challenges faced by developers and physicians, and regulatory changes and funding trends. Also, the symposium will provide networking opportunities for professionals with a strong interest in Digital Therapeutics.

Time schedule:
09:00 - 10:00 Registration
10:00 - 10:20 Opening remarks
10:20 - 12:30 Plenary session
12:30 - 01:45 Lunch
01:45 - 02:00 Closing remarks (Lunch provided)

Wednesday November, 9th 2022
Inquiries: Prof. Sang Nam, Director, Computer Game Design (snams@gmu.edu)

Organized by George Mason University Korea & College of Visual & Performing Arts

Sponsored by NCSOFT Corporation

Auditorium at Mason Square
3351 Fairfax Dr. Arlington, VA 22201
(deck parking entrance via Founders Way North)



AI Ethics and AI Efficacy



Friday, November 18, 2022 1:30-2:45 pm EDT

'AI Ethics and AI Efficacy'

The field of artificial intelligence (AI) ethics has grown considerably over the last decade. It has highlighted the ways in which novel machine learning techniques can result in unintended unethical outcomes, for instance, in supervised learning, an algorithm can adopt, or even exacerbate, biases that exist in the training data. However, there have been few attempts to apply the findings from the AI ethics literature to military ethics. In this paper, I take some initial steps toward applying the lessons learned from the AI ethics literature to military AI applications other than autonomous weapons systems.

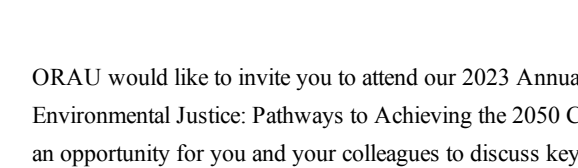
Zoom link: <https://go.gmu.edu/chapa>

Joe Chapa
US Air Force





Election Security Hackathon

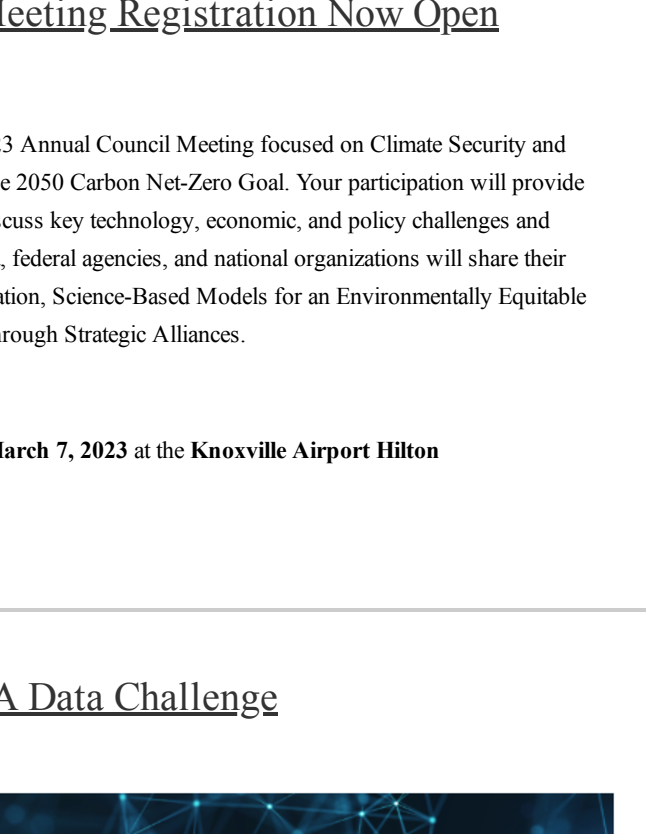


The Election Security Hackathon™

October 28, 2022 – 9 AM – 1 PM
In-person: MIX @ Horizon Hall
Zoom: Meeting ID 953 7450 8468

Scan QR code or go to <https://forms.office.com/tLDAk7aF5St> to register as a team

Select teams will have access to a \$3,000 grant through the NSF I-Corps program



ORAU 2023 Annual Meeting Registration Now Open


ORAU would like to invite you to attend our 2023 Annual Council Meeting focused on Climate Security and Environmental Justice: Pathways to Achieving the 2050 Carbon Net-Zero Goal. Your participation will provide an opportunity for you and your colleagues to discuss key technology, economic, and policy challenges and opportunities. Experts and leaders from academia, federal agencies, and national organizations will share their views on Technology Innovation and Transformation, Science-Based Models for an Environmentally Equitable Society, and Growing Future Thought Leaders through Strategic Alliances.

Registration Deadline: **February 28, 2023**

Event Session: **Monday, March 6 - Tuesday, March 7, 2023** at the **Knoxville Airport Hilton**

Register [here](#).

2023 FAA Data Challenge



2023 FAA DATA CHALLENGE

DRIVING INNOVATION THROUGH DATA

Using Artificial Intelligence/Machine Learning and Data Analytics to Solve Aviation-Related Challenges

faadatachallenge.nianet.org

The **2023 FAA Data Challenge** focuses on the use of **Artificial Intelligence/Machine Learning (AI/ML)** and advanced analytics to address **aviation-related problems and opportunities. AI/ML is rapidly transforming many industries including aviation.**

Successful submissions will push the boundary and introduce novel approaches to aviation problems as the Federal Aviation Administration (FAA) moves further towards an info-centric National Airspace System (NAS).

As a regulator and operator, the FAA's diverse mission activities collect and generate a tremendous amount of data. This data and information must be leveraged to its fullest extent possible to enable the mission, which is to provide the safest and most efficient aerospace system in the world, to drive efficiency, improve accountability, fuel innovation, exploit the use of data, and embrace modern analytical techniques.

Teams should submit advanced analytics and AI/ML proposals that address one of the following categories:

- **Improve Aviation Safety**
- **Improve Operational Efficiency of the NAS**
- **Contribute to the Drive for Sustainable Aviation**
- **Assist with the Rapidly Evolving New and Novel Uses of the NAS**

DATES AND DEADLINES

October 15, 2022	Challenge Opens
November 6, 2022	Submit Your Expression of Interest
November 16, 2022	Q&A Session #1 Webinar
January 18, 2023	Q&A Session #2 Webinar
January 22, 2023	Submit Your Abstract
February 28, 2023	Finalists Notified of Selection Status
May 7, 2023	Finalists Teams Submit Technical Papers
June 21-22, 2023	2023 FAA Data Challenge Forum in Washington, DC metro area

STUDENT OPPORTUNITIES

Summer Team Impact Projects

The Office of the Provost is excited to offer grants for Summer Team Impact Projects (STIP) for Summer 2023. The Offices of Undergraduate Education, OSCAR, and CECIL will fund multidisciplinary summer projects for undergraduate students, graduate students, and faculty members. These projects will explore a central theme, a research question, or a community-identified problem. Proposals focusing on the UN's Global Goals or Anti-Racist Community Engagement are encouraged.

Proposal Deadline: **November 18, 2022**

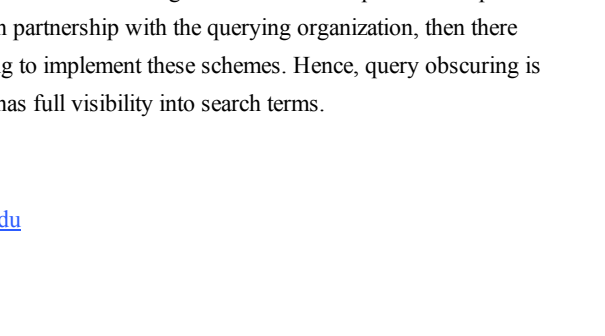
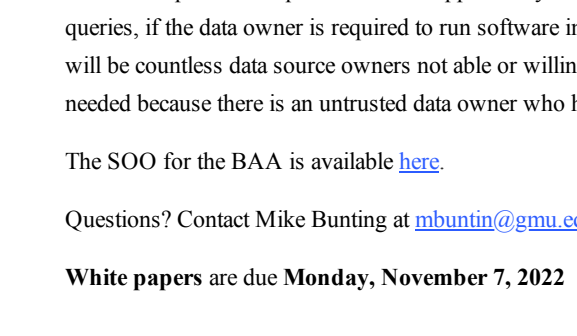
More information is available [here](#).

Applications Open for Grad Cohort 2023 Workshops

CRA-WP will host two Graduate Cohort Workshops in 2023! The Grad Cohort Workshop for Inclusion, Diversity, Equity, and Leadership Skills (GC-IDEALS) is designed specifically for graduate school populations underrepresented in computing research. The Grad Cohort Workshop for Women is designed for women students in their first, second, or third year of graduate school in computing fields. Grad Cohort participants will have an opportunity to build mentoring relationships and develop peer networks intended to form the basis for ongoing activities during their graduate career and beyond.

Applications are due by November 30, 2022

More information is available [here](#).



2023 GRAD COHORT

Applications Oct. 17 - Nov. 30

EnergyTech UP Business Plan Competition Offers \$370K to Students

Students interested in learning about cutting-edge clean energy tech, take note: The next round of the EnergyTech University Prize (EnergyTech UP) from the U.S. Department of Energy's Office of Technology Transitions is now accepting applications!

This innovative prize, part of the American-Made Challenges program, asks multidisciplinary student teams to identify a high-potential energy technology, assess its market potential, propose a strategy for commercialization—and compete for a share of \$370,000!

Register [here](#).

Registration Deadline: **January 26, 2023 by 2:00 pm PST**

More information is available [here](#).

VARIOUS OPPORTUNITIES

2023 Distributed Research Experience for Undergraduates (DREU)

Distributed Research Experiences for Undergraduates (DREU) participants have the opportunity to be directly involved in a research project and interact with graduate students and professors on a daily basis. This experience is invaluable for those who are considering graduate school; DREU will provide a close-up view of what graduate school is really like and increase interns' competitiveness as an applicant for graduate admissions and fellowships. Faculty mentors will have the opportunity to work on their research projects with new students from other institutions and to mentor future graduate students.

Application Deadline: **February 15**

Apply [here](#).

More information is available [here](#).

CCI Fellows Program 2022

Virginia's Commonwealth Cyber Initiative (CCI) is creating a Commonwealth-wide ecosystem of innovation excellence at the intersection of cybersecurity, autonomous systems, and intelligence. CCI's mission includes research, innovation, and workforce development.

More than 300 researchers across Virginia are affiliated with CCI, providing the breadth and depth of expertise needed to compete for large research awards. Increasing Virginia's success in attracting center-scale awards is one of the objectives of CCI.

Proposals Due: **December 31, 2022**

More information is available [here](#).

Request for Proposal: Digital Crowbar

The Directorate of Digital Innovation/Digital Futures, in cooperation with the Office of Mission Applications (OMA) (herein referred to as "The Sponsor"), is seeking white papers with the potential for a selection to commercially develop a Proof of Concept (PoC) capability to protect sensitive text and image queries by obscuring them. The Sponsor may examine either existing commercial capabilities or custom-built proofs of concept from commercial labs. For example, a user could specify specific text and image search parameters (i.e. name or image of interest) to query specific data sources and/or platform data repositories. In this case, associated capabilities would support the transformation of text and image queries to ensure sensitive search term interests are hidden and not obvious to untrusted data owners, while privacy is maintained and valid query results containing information relevant to the original, sensitive query are returned.

A key aspect of this objective is that the Sponsor does not control the data source. In addition, encryption schemes to protect the queries are not supported by data owners. Although numerous techniques exist to protect queries, if the data owner is required to run software in partnership with the querying organization, then there will be countless data source owners not able or willing to implement these schemes. Hence, query obscuring is needed because there is an untrusted data owner who has full visibility into search terms.

The SOO for the BAA is available [here](#).

Questions? Contact Mike Bunting at mbunting@gmu.edu

White papers are due Monday, November 7, 2022

AWARDS

Congratulations to:

Lattanzi, David from the [College of Engineering and Computing](#) for receiving the Pennsylvania State University grant on *Educational Consortium for Energy-Related Data Science & Computation in Building Engineering Programs*.

Dong, Pei from the [College of Engineering and Computing](#) for receiving the Argonne National Laboratory grant on *Development of Li-Air Batteries Battery/Lithium Materials Science*.

FUNDING OPPORTUNITIES

[ORAU Events Sponsorship Grant Program](#)

Deadline: September 30, 2023

[Apply for Supplemental Funding through the Research Experience and Mentoring Program](#)

Deadline: December 16, 2022

[Internet Award](#)

Deadline: January 15, 2023

[Masaru Iwaka Consumer Technology Award](#)

Deadline: January 15, 2023

IDIA AFFILIATION

Did you know that, as an IDIA faculty affiliate, you are eligible to:

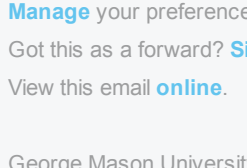
- Compete for [internally funded IDIA projects](#)
- Receive support for [IDIA-relevant events](#)
- Become part of the [dynamic multidisciplinary faculty network](#) focused on digital techniques and technologies to advance fields as diverse as finance, education, built infrastructure, science, economics, agriculture, health, transportation, entertainment, national security, and social justice.

There is no financial burden to you or your departments for affiliation with the institute. Participation in IDIA does not prevent its members from being associated with other university centers. If you are not already affiliated, we encourage you to submit your profile [here](#).

SHARE WITH US

We are eager to hear from you! As we work with your colleges to compile updates on digital innovation-related research activities at Mason, we would love to hear about your research activities, awards, and recent publications. Please share any successes, concerns, or ideas with us at idia2@gmu.edu

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