



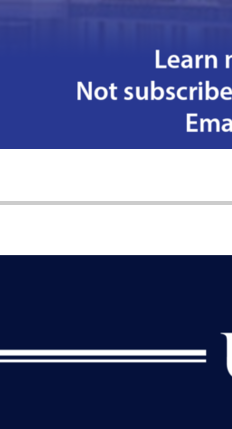
THE WEEKLY

Dear Colleagues,

The Institute for Digital Innovation (IDIA) is launching its IDIA CONNECT series to connect Mason faculty, researchers, and students with industry and non-governmental organizations, as well as local, regional, and national government entities.

Join our first IDIA CONNECT event, where we connect you with Figure 8 Federal.

RSVP [here](#).



Institute for

Digital InnovAtion

September 30, 2022, 1 - 2 PM

Zoom Meeting information sent over email

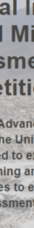
IDIA CONNECT SERIES

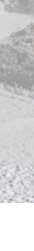
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Join us for our first IDIA CONNECT event, where we connect you with **figure eight FEDERAL**

Learn more at [idia.gmu.edu](#)

Not subscribed to our weekly newsletter? Email [idia2@gmu.edu](#)

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UPCOMING EVENTS

ACM EAAMO coming to Arlington in October

Department of Computer Science is hosting ACM EAAMO, the Conference on Equity and Access in Algorithms, Mechanisms, and Optimization, in partnership with GMU IDIA, at GMU's Mason Square campus in Arlington from October 6-9! Registration is now open [here](#).

The goal of this event is to highlight work where techniques from algorithms, optimization, and mechanism design, along with insights from the social sciences and humanistic studies, can improve access to opportunity for historically underserved and disadvantaged communities.

The conference aims to foster a multi-disciplinary community, facilitating interactions between academia, industry, and the public and voluntary sectors. The program will feature keynote presentations from researchers and practitioners as well as contributed presentations in the research and policy & practice tracks.

There will be a series of keynote speakers from a variety of fields: Marcella Alsan (Professor of Public Policy, Harvard Kennedy School), Sello Mkwana (Senior Lecturer and Head of Department, Tshwane University of Technology), Neema Iyer (Founder and Director of Policy, Practitioner Fellow, Digital Civil Society Lab, Stanford PACS), Karen Smlowitz (Professor in Industrial Engineering and Management Sciences, Northwestern University).

Questions? Contact Sammay Das at [sammay@gmu.edu](#)

DARPA Innovation Fellowship Program

A new DARPA effort aims to recruit standout scientists and engineers beginning their careers for a two-year position at the agency. The DARPA Innovation Fellowship Program will select fellows to develop and manage a portfolio of high-impact, exploratory research efforts to help identify breakthrough technologies for the Department of Defense.

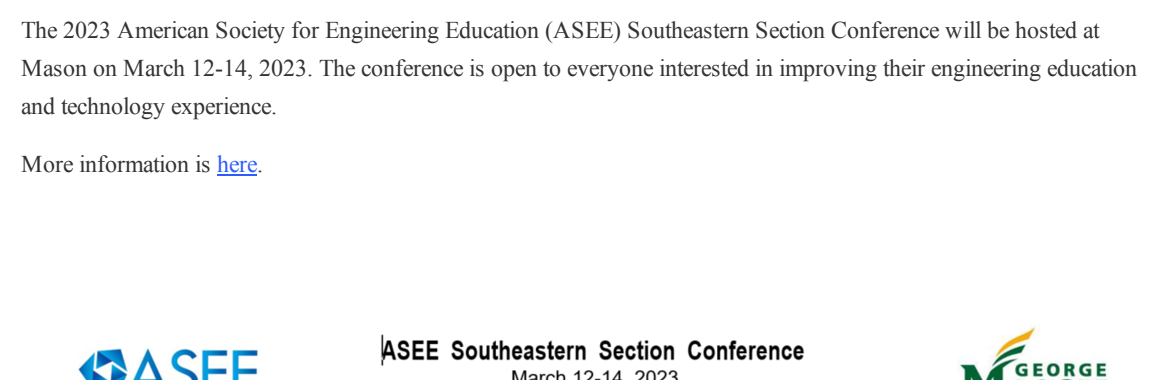
More information is [here](#).

Artificial Intelligence for Critical Mineral Assessment Competition

The United States depends on a variety of raw, non-fuel materials dubbed "critical minerals" to manufacture products considered essential to national security. These products can range from rare earth minerals in electric motors and generators to the carbon fiber used for airplanes. Increasing demand, limited domestic supply, and reliance on foreign companies to import these critical minerals pose significant risks to the U.S. supply chain. DARPA has partnered with the U.S. Geological Survey (USGS) to explore the potential for machine learning and artificial intelligence tools and techniques to accelerate critical mineral assessments. The goal is to significantly speed up the assessment of the nation's critical mineral resources by automating key steps in the process.

Today through September 23, we're seeking participants with machine learning, computer vision, and/or AI experience for the following challenge as part of the broader competition. The first challenge is already underway.

More information is [here](#).

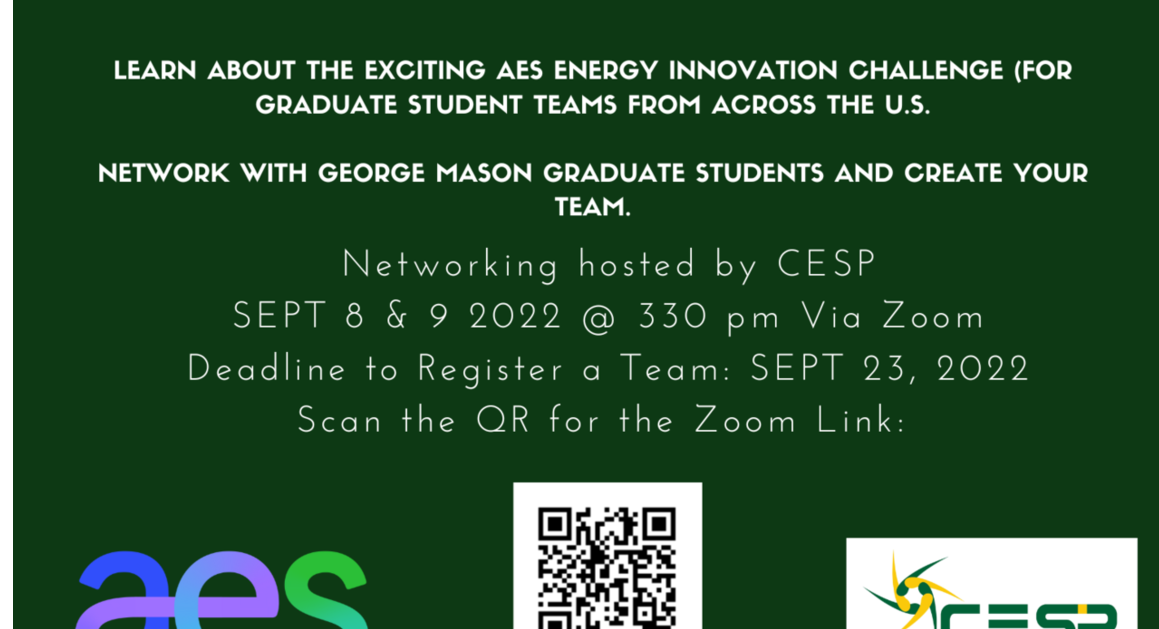


NSF 2022 Waterman Lectures

Join the U.S. National Science Foundation for a three-part lecture series featuring the laureates of the 2022 Alan T. Waterman Award, the nation's highest honor for early-career scientists and engineers.

Trends in U.S. Faculty Hiring and Retention from Ten Years of Data: A Study of Prestige, Diversity and Inequality
Daniel Larremore, University of Colorado
September 28, 2022, 1-2 p.m. [Register here](#).

Past Climates Inform Our Future
Jessica Kline, University of Arizona
October 11, 2022, 1-2 p.m. [Register here](#).



Defense TechConnect Innovation Summit and Expo

Connect with \$4 billion+ in funding opportunities with SBIR Offices and Agencies at the Defense TechConnect Innovation Summit and Expo.

[Learn more](#).



Pitch and Pilot: Fairfax County Innovation Challenge

Smart City Works Innovation Hub, Fairfax County Department of Economic Initiatives (DEI), and Fairfax County Office of Environmental and Energy Coordination (OEEC) in partnership with George Mason University's Office of Sustainability and Institute for Sustainable Earth, announce the launch of the Pitch and Pilot: Fairfax County Innovation Challenge.


The goal of the challenge is to find innovative solutions that improve energy efficiency, increase the use of renewable electricity, and accelerate the use of electric vehicles to shift from a carbon-based economy to a carbon-neutral community. The deadline for accepting applications is October 3, 2022, at 5 p.m.


[Learn more](#).


Carbon Neutral Pitch and Pilot


[REGISTER TO COMPETE](#)

Competition On: October 19, 1-3:30pm





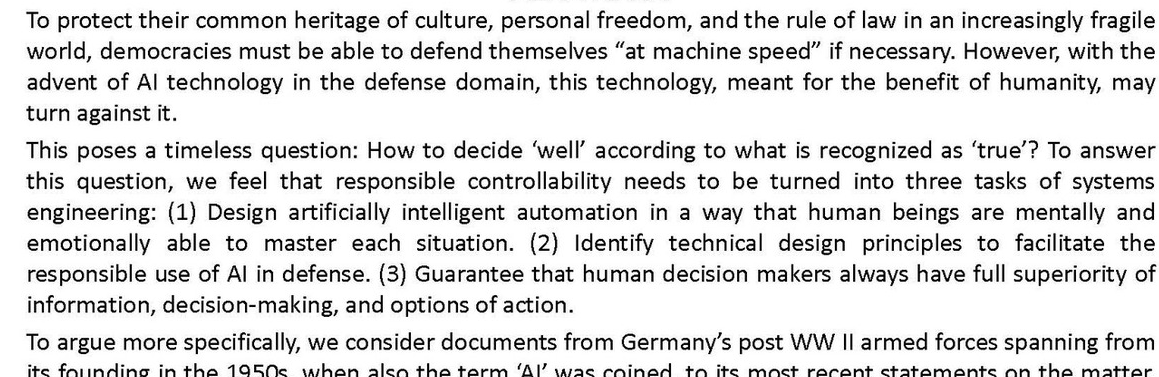




2023 American Society for Engineering Education Southeastern Section Conference

The 2023 American Society for Engineering Education (ASEE) Southeastern Section Conference will be hosted at Mason on March 12-14, 2023. The conference is open to everyone interested in improving their engineering education and technology experience.

More information is [here](#).



STUDENT OPPORTUNITIES

AES Energy Innovation Challenge

COMPETE TO DEVELOP PROPOSED SOLUTIONS FOR MAJOR IEEE CHALLENGES.

AND FOR RECOGNITION AND PRIZES (\$10,000 FIRST PRIZE) AND INCLUDING OPPORTUNITIES FOR PAID AES ENERGY INNOVATION CHALLENGE INTERNSHIPS

ALL PARTICIPANTS WILL RECEIVE STUDENT ENERGY INDUSTRY ASSOCIATION MEMBERSHIPS AND OPPORTUNITIES TO NETWORK WITH AES PROFESSIONALS

AES ENERGY INNOVATION CHALLENGE

LEARN ABOUT THE EXCITING AES ENERGY INNOVATION CHALLENGE (FOR GRADUATE STUDENT TEAMS FROM ACROSS THE U.S.)

NETWORK WITH GEORGE MASON GRADUATE STUDENTS AND CREATE YOUR TEAM.

Networking hosted by CESP

SEPT 8 & 9 2022 @ 3:30 pm Via Zoom

Deadline to Register a Team: SEPT 23, 2022

Scan the QR for the SEPT Link:



The Sprintership™ Application for 2023 is Now Open!

Sprinterships™ are paid 3-week micro-internships for first-, second-, or third-year undergraduate students pursuing computer degrees. Sprinterships™ give students a resume credential that makes them more competitive when applying for summer internships and provides employees a chance to engage with a diverse tech talent pipeline. Working in teams of five, "Sprinterships" are immersed in their host site's business and culture, complete a challenge project, and build their industry network and knowledge.

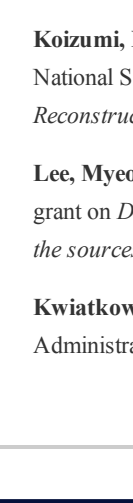
Applications close at 5:00 p.m. on Friday, September 30. If you have any questions, email [breakthrough@bc.edu](#) or [mason@gmu.edu](#).

You can apply [here](#).

VARIOUS OPPORTUNITIES

CIP2 2022 Annual Fall Conference

REGISTER NOW



C-IP² Presents an Academic Conference


IP on the Wane: Examining the Impacts as IP Rights are Reduced

Co-Hosted with the Global Antitrust Institute (GAI) and the National Security Institute (NSI)

SEPTEMBER 22-23, 2022

George Mason University, Antonin Scalia Law School, Arlington, Virginia (in person only)


Scan or click on the QR code below to visit the event website!



AFTER DECADES OF EFFORTS by some to slow the perceived expansion of intellectual property rights (IPR) around the globe, policymakers and courts in a number of countries have responded by placing greater limitations on IPR.

Now that such limits have been in effect for a few years, researchers have been able to start measuring the impact on innovators, creators, and the overall economy. C-IP² Annual Fall Conference brings together leading researchers, policymakers, creators, and innovators to share their experiences and results.

C-IP² is excited to feature the Seventh Annual Law Rocks Washington DC, which will feature eight bands of legal professionals rocking out to benefit local nonprofits at the 930 Club on Sept. 22! C-IP² will be in touch with paid conference registrants on how to receive a discounted concert ticket prior to the on-site date of July 20th. Learn more at [https://lawrocksdc.org/ral](#)



VISIT CIP2.GMU.EDU TO LEARN MORE

Identity & Computing Lecture Series

The Alliance for Identity-Inclusive Computing Education (AIICE) is excited to kick off the 2022-2023 Identity & Computing Lecture Series with Dr. Jessie Daniels, author of [Nice White Ladies: The Truth About White Supremacy, Our Role in It, and How We Can Help Dismantle It](#).


Join AIICE for what is sure to be an interesting conversation! Zoom registration is required.

If you are interested, you can learn more and register [here](#).



Identity & Computing Lecture Series

Calling in the Nice White Ladies of the Tech World & Beyond

Sept 20, 5:00-6:00 PM DST • VIRTUAL EVENT: [bit.ly/aiice-9-20](#)



Dr. Jessie Daniels
Professor of Sociology at Hunter College (CUNY)
Director of Master's degree program in Applied Digital Sociology
Faculty Associate, Harvard Berkman-Klein Center
Research Associate, Oxford Internet Institute



SEOR-METRON Joint Webinar

On Digital Ethics, Ethos, and Morals for Artificial Intelligence in the Defense Domain

Professor Wolfgang Koch, Chief Scientist of Fraunhofer FKIE, Germany

Wednesday, Sept. 14th
12:00 pm – 1:30 pm EDT

One of a series of talks on Artificial Intelligence and Machine Learning that are jointly sponsored by Metron, Inc. and George Mason University.

ABSTRACT

To protect their common heritage of culture, personal freedom, and the rule of law in an increasingly fragile world, democracies must be able to defend themselves "at machine speeds" if necessary. However, with the advent of AI technology in the defense domain, this technology, meant for the benefit of humanity, may turn against it.

This poses a timeless question: How to decide "well" according to what is recognized as "true"? To answer this question, we feel that responsible controllability needs to be turned into three tasks of systems engineering: (1) Design artificially intelligent automation in a way that human beings are mentally and emotionally able to master each situation. (2) Identify technical design principles to facilitate the responsible use of AI in defense. (3) Guarantee that human decision makers always have full superiority of information, decision-making, and options of action.

To argue more specifically, we consider documents from Germany's post WW II armed forces spanning from its founding in the 1950s, when also the term "AI" was coined, to its most recent statements on the matter. A current example will be the ongoing European efforts toward future generation air combat systems where artificially intelligent automation is inevitable. Moreover, we sketch ongoing IEEE 7000-2021 standardization activities on "Ethically-aligned Engineering."

BIOGRAPHY
Professor Wolfgang Koch, Fellow IEEE, earned his PhD in theoretical physics at RWTH Aachen and his habilitation in computer science at the University of Bonn, where he teaches signal processing, data fusion, and resource management. In these fields he has published a monograph, edited handbooks, and written numerous handbook chapters and technical articles. For many years, he has worked for the German Armed Forces and defense industry. His work comprises all aspects of Intelligence, Surveillance, and Reconnaissance, ISR, Electronic / Navigation Warfare, resources management, and Manned-Unmanned Teaming. Being the Chief Scientist of Fraunhofer FKIE, Professor Koch coordinates on a broad scale of R&D activities related to digitalization in the defense and security domain. At the international level, he is active in the International Society of Information Fusion (ISIF), the IEEE Aerospace and Electronics Systems Society AESS, and the NATO Science and Technology Organization STO.

This talk is open to the public and available via Zoom Meeting. To register, please email [registration@metstol.com](#)

2023 Next System Fellows - Applications Open

The Next System Fellows now accepting applications for admission to the Spring 2023 cohort of [Next System Fellows](#).

Please read more about our [courses](#), [internship program](#), and the [new field of Next System Studies](#) - a truly transdisciplinary approach to preparing for a transition to a better society that unites the social sciences and humanities, business and management, environmental and biological sciences, and technology and computer sciences. [Read about last year's cohort](#), our first Next System Fellows. Take a [look at this short video](#) to get a sense of one of the activities experienced by our Fellows.

Application deadline is November 15th, but our admissions committee begins the formal review of applications on October 1st.

If you are interested, you can learn more and apply [here](#).

Navigating Economic Uncertainties

Navigating Economic Uncertainty

How consumer trends, data, and technology shape retailer strategies

David L. Harrison
CEO & Co-Founder
Harrison

George Mason
CEO & Founder
Mason

Craig Barker
President and Founder
Barker Group

Lisa Gentry
VP Consulting & Market
Intelligence
Allentown Companies

September 15, 2022, from 12 noon - 1 pm ET

Sponsored by:

Moderated by:
Gautam Vaidikagupta
Associate Professor & Center Director

Be an AIM-AHEAD Research Fellowship Mentor

The AIM-AHEAD Research Fellows Program will engage early-career researchers from underrepresented populations to actively participate in biomedical research involving AIML methodologies on Electronic Health Record Data. Selected mentors will receive a stipend of up to \$10,000.

Apply [here](#).

CIA DDI Digital Hammer Call for White Papers

CIA DDI is seeking white papers outlining potential solutions for managing legal holds. These legal holds require data and records to be preserved and streamlined in order to improve the records management process. White papers may be selected for formal request for proposal, and possibly for a prototype development. The software solution would perform electronic discovery, processing, logging, inventory, audit, ingestion, document review, data recovery, and production tasks accurately and in a timely manner.

The SOO for the BAA is available [here](#). A new version of the Digital Hammer BAA's Concept of Operations (CONOPS) will be released shortly with updated information. The current CONOPS is available [here](#).

Questions? Contact Mike Bunting at [mbunting@gmu.edu](#)

Deadlines:

Questions are due September 15 by 5 p.m. EST (via the "Q&A" tab under "BAA Call 003")

White papers are due October 14 by 5 p.m. EST (via the "BAA Call 003 Resps" tab under "BAA Call 003").

FUNDING OPPORTUNITIES

[Pathways to Enable Onset-Source Ecosystems](#)

Deadline: October 21, 2022

[Geothermal Energy From Oil and Gas Demonstrated Engineering \(GEODE\)](#)

Deadline: October 28, 2022

AWARDS

Congratulations to:

Koizumi, Naoru from the [Scholar School Policy and Governance](#) and Co-PI El-Amine, Hadi for receiving the National Science Foundation grant on *D-ISEN: Evolution of Global Illicit Kidney Trade Networks: Identification, Reconstruction, and Disruption*.

Lee, Myeong from the [College of Engineering and Computing](#) for receiving the National Science Foundation grant on *D-ASS: Exploring how convergence methods foster shared accountability to reveal, map, and mitigate the sources and dynamics of bias across social service provisioning systems*

Kwiatkowski, John M. from the [College of Science](#) for receiving the National Aeronautics and Space Administration grant on *PFS Data System Sustaining Engineering and Support*.

IDIA AFFILIATION

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

- Compete for [internally funded IDIA projects](#)
- Serve as [IDIA Advisory Council members](#)
- Receive support for [IDIA relevant events](#)
- Get featured in our next weekly: [IDIA Weekly Spotlight](#)

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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