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MONTHLY RESEARCH NEWSLETTER

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APRIL RESEARCH NEWS

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Sensor Modernization for MQ-9 Reaper Adopts Open Systems Technology

Modernization efforts utilizing the Modular Open Systems Approach (MOSA) and the Sensor Open Systems Architecture (SOSA™) standard have enabled the rapid development and prototyping of upgrades for critical sensor systems on the MQ-9 Reaper, a remotely-piloted aircraft designed for long-endurance surveillance.



NSA and GTRI Collaborate to Assure Trustworthiness of AI for National Security Uses

Artificial intelligence is attracting attention for uses in a broad range of areas, including national security, where the ability to understand complex patterns could be extremely helpful. GTRI researchers, in collaboration with the National Security Agency's (NSA's) Laboratory for Advanced Cybersecurity Research (LACR), are developing metrics, tools, and techniques to improve the robustness and trustworthiness of AI for such high-stakes applications.



Jud Ready Joins National Academy of Inventors' 2024 Class of Senior Members

Jud Ready, a GTRI principal research engineer, has been selected to join the National Academy of Inventors' (NAI) 2024 Class of Senior Members – a group of 124 academic inventors from NAI's Member Institutions who have made significant contributions to innovation and technology.



Norfolk Southern, GTRI Unveil Georgia's First Digital Train Inspection Portal

At a recent media event, the Georgia Tech Research Institute (GTRI) and Norfolk Southern unveiled a new digital train inspection portal near Jackson, Georgia, marking the culmination of a three-year collaboration.

FEATURED STORY



Comas Haynes: Bridging Industry and Academia to Develop Equitable Energy Solutions

Comas Haynes, a GTRI principal research engineer and branch head of the Materials/Energy unit within the Intelligent Sustainable Technologies Division (ISTD), who also serves as the Hydrogen Initiative Lead at Tech's Strategic Energy Institute (SEI), discusses leveraging his new role on the U.S. Department of Energy's Industrial Technology Innovation Advisory Committee (ITIAC) to promote inclusivity in clean energy development and advancement.

GTRI PEOPLE



Celebrating Inclusive Excellence: Renée Lartey on the Importance of Mentors

Renée Lartey is the first Black woman with an operations and project management background to serve as an Associate Lab Director at the Georgia Tech Research

Institute (GTRI), supporting one of the Institute's largest labs. She officially began the role on Dec. 1, 2023, after serving as the lab's interim associate director for nine months.

GTRI IN THE NEWS

[**Jackson rail line gets latest tech in Norfolk Southern's efforts to improve safety**](#) (Georgia Public Broadcasting)

[**Norfolk Southern rolls out new safety technology in wake of derailment**](#) (Atlanta News First)

[**Small Data May Have Big Impact on Artificial Intelligence at the Edge**](#) (AFCEA Signal)

[**Norfolk Southern's Machine Vision System Inspects Moving Rail Cars**](#) (Vision Systems Design)

[**Radar gaps threaten millions as severe weather season ramps up in U.S.**](#) (The Washington Post)(Subscription required)

[**Richard Truly, 86, Dies; Shuttle Astronaut Who Went On to Lead NASA**](#) (The New York Times) (Subscription required)

FEATURED VIDEO



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