



Human Systems Community of Interest (HS Col) Newsletter



Spring 2024

Senior Leader Perspective: As the newest member of the HS COI Steering Committee, I have learned a great deal about the larger DoD human systems community. I am thankful for what I’ve learned, and look forward to leveraging this community to develop and strengthen relationships and scientific collaborations across the S&T enterprise.

As General James McConville, the 40th Chief of Staff of the Army from 2019-2023 stated, “Our people are the centerpiece of the Army.” He was a great proponent of the Army People Strategy (APS). ARI’s program of research is heavily guided by the APS, talent management reforms, and other personnel challenges that impact the Army’s ability to achieve superior performance across a diverse range of military context.

Today, more than ever, personnel (human) sciences research is of vital importance in the Army and DoD as we seek to better understand, measure, predict, and change human performance in a military context. With a goal of improving the way we attract, develop, and retain exceptional leaders and warfighters we can help ensure we have the Right Person, in the Right Job, with the Right Skills. Getting it right does not happen by accident or happenstance. It takes research in the personnel sciences to allow us to make good personnel management decisions.

ARI scientists produce innovative and scalable approaches to: (a) identify talent and job requirements; (b) design new assessment methods to acquire, employ, and retain high potential Soldiers; (c) develop methods and models to inform Soldier and leader development; and (d) create methods and measures to bridge the gap between the individual, team, and enterprise levels of talent management. We also invest in science to address future personnel challenges the Army may face.

As we modernize our equipment, technology, and weapon systems, we must also modernize our personnel assessment, training, leader development, and group performance systems and processes. We must ensure that our warfighters have the skills necessary to operate in a technologically enhanced environment – often in a human-machine teaming context. That is the critical space where the HS COI operates. Collectively, our Scientists, Engineers, Technicians, and Human Systems Integration Practitioners provide a critical, and often overlooked, capability – the ability to deliver human-centric research to improve human performance and mission effectiveness. Thank you for the contributions you all make to our warfighters!

Dr. Scott Shadrick, Acting Director, Army Research Institute & Human Systems Col Steering Committee Member

HUMAN SYSTEMS Col

Vision: Develop/deliver technologies to enable, sustain, enhance and quantify human performance

Mission: Enhance the warfighter through:

- 1) Integrated sims for mission training & experimentation
- 2) Human-machine designs for warfighters,
- 3) Assessment of operator effectiveness
- 4) Operating through battlespace stresses, and
- 5) Mastering the PMESII battle space.

Key Products: Integrated service roadmaps; Col taxonomy; budget & programs; Seedling and ARAP proposals.



Key Personnel:

Col Chair: Dr. Gaurav Sharma, Air Force Research Laboratory

OSD: CDR Wilfred Wells, OUSD (R&E)

Navy: Dr. Patrick Mason, Office of Naval Research

Army: Dr. Jeremy Gaston, Army Research Laboratory

Army: Dr. Robb Wilcox, Soldier Center (CCDCSC)

Army: Dr. Scott Shadrick, Army Research Institute

SOCOM: Ms. Lisa Sanders, Special Operations Command

DIU: Dr. Christian Whitchurch, Defense Innovation Unit

ExecSec: Dr. Jill McQuade, Air Force Research Laboratory

PAE&T Lead: Dr. Elizabeth Uhl, Army Research Institute

SICP Lead: Dr. Mark Draper, Air Force Research Laboratory

PSWP Lead: Dr. Logan Williams, Air Force Research Laboratory

Questions, feedback or need to reach the POC? Please contact our Col’s email at hscoi-contact@sainc.com. Thanks!

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Human Systems Community of Interest (HS Col) Newsletter



Spring 2024

Col Highlights - Past Events

NDIA Holds Human Systems Conference

The NDIA Human Systems Division successfully held their 2024 Human Systems Conference on March 21-22 at George Mason University in Arlington VA. This year’s conference theme was “Next Generation Platforms and the Evolving Role of the Human”, where the ever-changing dynamic between humans and machines was explored throughout the programming. Over 100 attendees heard from several speakers about ongoing efforts to integrate consideration of the human into the technology-development process. Additionally, they received an overview of advances in policy to incorporate Human Systems Integration (HSI) planning in defense acquisition which resulted in productive discourse about how HSI can maximize the efficacy of DoD platforms across their lifecycles. Highlighted speakers included the Director of NAWCAD’s Joint Simulation Environment Blaine Summers, the Director of Specialty Engineering OUSD(R&E) Chris DeLuca, and the Chief Scientist of the 711th Human Performance Wing at AFRL, Dr. Gaurav Sharma, who is also the current Chair of the Human Systems Community of Interest.

Major Events/Activities 2024	
Roadmap Review w/OUUSD (R&E)	Jan
NDIA Human Systems Conference	Mar
Human Factors Engineering TAG	May
Col Information Exchange w/OSD	Jun
COI Annual Meeting	Aug
ARAP Data Call	Oct
I/ITSEC in Orlando FL	Nov/Dec

2025 Conference Planning. We are anticipating to hold the event again in March at George Mason University. Over the next quarter, the division will select a conference theme and begin to develop a program of speakers. In the fall, the division will release a call for abstracts for spoken presentations, posters, and demonstrations. The leadership of the NDIA Human Systems Division is excited to continue to work closely with the Human Systems COI to develop the 2025 program.

In the coming year, the NDIA Human Systems Division is looking forward to furthering its engagement with other NDIA divisions as well as continuing to advocate for HSI resources for DoD stakeholders/program managers in an effort to enhance our impact.

Please visit <https://www.ndia.org/divisions/human-systems> to access event details as they become available.

POC: Stuart Michelson, GTRI, Chair of NDIA Human Systems Division

POC: Erik Sikorski, MITRE, Deputy Chair of NDIA Human Systems Division

DoD Human Factors & Engineering Technical Advisory Group (HFE TAG) #76 Is a Success!

The DoD HFE TAG held its 76th annual conference from April 22 to 25 at the NASA Marshall Space flight Center in Huntsville, Alabama and the University of Alabama, Huntsville.

Goal: The HFE TAG conference provides a forum for the timely exchange of technical information and enhances coordination among Government agencies involved in HFE technology research, development, and application. The TAG also assists in the preparation and coordination of tri-Service documents and advisements as well as sponsoring in-depth technical interaction to help identify HFE technical issues and technology gaps.



Agenda Highlights: The conference opened with a virtual training session on augmented reality presented by Dr. Ryan Harari, Harvard Medical School, and facilitated by Dr. Daniel Mountjoy, Lead Crew Systems/Escape Engineer, Air Force, and Maggie Eliot, OUSD (R&E). Attendees also heard a speech from the DoD HFE TAG Proponent and Human Systems Director, CDR Will Wells, PhD, and Dr. Gaurav Sharma, Chief Scientist, 711th Human Performance Wing, U.S. Air Force Research Labs, who set the tone with his keynote speech elaborating on the conference theme, “Balancing Risk and Performance.”



Human Systems Community of Interest (HS Col) Newsletter



Spring 2024

Col Highlights - Past Events (Continued)

Following Dr Sharma's Keynote, a panel composed of leaders from NASA, the U.S. Army, and the U.S. Air Force gave talks and answered questions drafted by the HFE TAG executive committee related to the recent emphasis on the 'Great Power Competition' including: 1) What are the challenges in how we currently do business with respect to risk analysis and 2) Given the Competition also emphasizes the idea that the operational warfighting domain is shifting both physically and strategically, how does your organization ensure continued readiness across all domains of competition?). The panel also answered questions from the audience..

Other conference highlights included technical sessions called "subTAGs" that focused on areas including unmanned systems, human performance, and healthcare human factors. Presenters focused their talks on the delicate balance between risk and system performance in the context of their disciplines. The final day took place at the University of Alabama, Huntsville, and included a student poster session.

HFE TAG #76 drew approximately 230 participants and received approximately 75 abstract submissions – both record numbers. Planning for HFE TAG #77 is under way, so stay tuned for the next newsletter where we will announce the location, host, and conference theme. In the meantime, check out the DoD HFE TAG site: HFETAG – DCTO(S&T).

POC: Ms. Maggie Eliot, Strategic Analysis, Inc. supporting OUSD(R&E)

Col Highlights - "Next Up"

Communities of Interest (Col) Information Exchange

All Cols will participate in this briefing to OUSD (R&E) scheduled for June 3-5 in Arlington VA. As in the past, the Cols will share information on the state of technology investment in their portfolio and identify future technology opportunities to inform resource decisions to the S&T Executive Committee (EXCOM). We look forward to another successful discussion!

POC: Katie Smith Stilling, Strategic Analysis, Inc

USSOCOM Human Machine Teaming Technical Experimentation

USSOCOM will host a Technical Experimentation event (TE-24-3) addressing Human Machine Teaming on June 3-7 in Red Springs, NC. This event will provide a unique opportunity for technology developers to interact with the Special Operations Force (SOF) community in a collaborative environment. USSOCOM conducts TE events throughout the United States with government, academia, and private industry representation. These events are intended to identify potential Technology Readiness Level (TRL) of 3 or greater technology solutions, impacts, limitations, and utilities to meet SOF technical objectives and thrust areas. Please visit Technical Experimentation (socom.mil) for additional event details.

POC: CDR Brennan Cox, USSOCOM AT&L, S&T Discovery, Human Systems Lead

Col Annual Meeting Heads Up. We are planning to hold this year's meeting the week of 12 August, most likely again in Arlington VA. The meeting objectives are to review FY24 accomplishments, discuss FY25 strategy, provide guidance, and engage in a series of presentations between the Col and its vital partners and stakeholders to hopefully find new collaboration opportunities. Key agenda items will include a Steering Committee Member Panel, Service Portfolio Updates, Subarea Updates, and other important briefings from other organizations. We're looking forward to another dynamic event involving our Human Systems Community!

POC: Katie Smith Stilling, Strategic Analysis, Inc

Other Opportunities

Members of the HSCol may be interested in the annual AFOSR Cognitive & Computational Neuroscience program review, which will be October 29-31 at the BRICC in Arlington, VA. The meeting is hybrid, but all presentations will be given in person. The agenda will be posted closer to the event on the registration site at <https://community.apan.org/wg/afosr/w/researchareas/39426/2024-cognitive-computational-neuroscience-program-review/>



Human Systems Community of Interest (HS Col) Newsletter



Spring 2024

From Our Partners and Stakeholders

USSOCOM A&TL S&T Discovery Hosts Bilateral Innovation Foundry Event, London

United States Special Operations Command's (USSOCOM) Directorate of Science and Technology partnered with UK Strategic Command (UKStratCom) to host Innovation Foundry (IF15) in London, UK, from 16-19 April, 2024. This unclassified event brought together 60 competitively selected participants from industry and academia alongside 20 government experts and operators. Through a series of design thinking exercises, they tackled a critical question: How can Special Operations Forces (SOF) adapt to the challenges and opportunities presented by the rise of complex, interconnected "smart cities"?

The event final outputs spanned a diverse range of futuristic concepts and capabilities, including:

- ◆ Simulation and Training Tools
- ◆ Advanced Sensor Fusion Capabilities
- ◆ Robust Cybersecurity Solutions
- ◆ Improved Supply Chain Management
- ◆ Efficient Power and Communication Systems
- ◆ Innovative Software and User Interfaces
- ◆ Secure Network and Cloud Infrastructure
- ◆ Integration of Autonomous Systems and Swarm Intelligence
- ◆ Advanced Vehicle Platforms
- ◆ Data-Driven Decision-Making Tools

IF15 served as the first phase of USSOCOM S&T's Innovation Cycle. Follow-on phases include the Rapid Capability Assessment (RCA) to further develop the preliminary capability concepts and a series of Integrated Technology Sprints (ITS) to demonstrate proofs of concept. Locations for the RCA (September 2024) and the ITS (April 2025) are to be determined.

POC: CDR Brennan Cox, USSOCOM AT&L, S&T Discovery, Human Systems Lead

International

India's DRDO's Representatives Visit WPAFB for Human-Machine Teaming Collaboration Meeting



Representatives from India's Defence Research and Development Organization's (DRDO) Institute of Nuclear Medicine & Allied Sciences (INMAS) visited Wright-Patterson Air Force Base on 15-16 April to meet with technical leadership from the 711th Human Performance Wing's (711HPW) Human Effectiveness Directorate and the Naval Aeromedical Research Laboratory – Dayton (NAMRU-D). The purpose of the visit was to continue planning for the proposed spatial disorientation collaborative research project and explore additional human-machine teaming research topics. Dr. Chinnadurai Vijayakumar, Mr. Apoorv Dhawan, Dr. Sonia Gandhi, Dr. Shilpi Modi, and Dr. Vijayabaskar

Narayanamurthy provided overviews of their current research efforts at INMAS, followed by overviews from Dr. Gaurav Sharma (711HPW Chief Scientist) and 711HPW Core Technical Competency and Core Research Area leadership. INMAS representatives toured facilities related to spatial disorientation research, including the 711HPW human centrifuge, research altitude chambers, and NAMRU-D's Disorientation Research Device.

INMAS and 711HPW are in the planning stages to develop a joint project entitled, "Cognitive, physiological, metabolic technologies for early onset identification of unrecognized, recognized and incapacitating spatial disorientation during flying using simultaneous information." The tools developed will allow pilots to avoid and quickly recover from spatial disorientation (SD). The project aims to identify the cognitive, physiological, metabolic signatures for the early onset of each stage of SD and deliver an integrated neurophysiological computational model capable of predicting them at early stage.

POC: Dr. Corey Hart, 711 Human Performance Wing



Human Systems Community of Interest (HS Col) Newsletter



Spring 2024

From Our Partners and Stakeholders (Continued)

Editor's Note: This new Human Systems Strategy was successfully briefed as part of our Col Roadmap briefing to OSD.

DoD Human Systems Science & Technology (S&T) Strategy Approved

The final iteration of the Department of Defense (DoD) Human Systems (HS) Science and Technology (S&T) Strategy was approved by the Office of the Under Secretary of Defense for Research and Engineering (OUSD R&E) leadership February 8, 2024. OUSD R&E Human Systems Director, CDR Wilfred (Will) Wells, PhD, developed the HS S&T Strategy over the course of Fiscal Year 2023 with a team of subject matter experts from the Institute for Defense Analyses and MITRE. The strategy establishes near, medium and far-term goals for Human Systems capabilities while adding a new subarea to the Human Systems S&T enterprise: Operations in the Information Environment (OIE).

Background. Commissioned by then-Deputy Assistant Secretary of Defense for Science and Technology, Dr. Kevin Geiss, the HS S&T Strategy was developed through a comprehensive review of previous strategies and literature. It evolved through three iterations, during which it was rigorously adjudicated based on feedback from stakeholders, including the HS Col, the Human Factors Engineering Technical Advisory Group (HFE TAG), and the Joint Human Systems Integration Working Group. A comprehensive Distro D version of the strategy is on the HS Col page of the Defense Technical Information Center (DTIC) website: <https://discover.dtic.mil>.

Rapidly evolving technologies and human systems have the potential to both transform kinetic and non-kinetic conflict and revolutionize day-to-day U.S. supply chain and logistics operations. Humans (warfighters) play an intrinsic role in the application of rapidly evolving technologies, particularly artificial intelligence (AI) and autonomy. HS S&T, particularly when teamed with rapidly advancing capabilities in these technology areas, magnifies operational effectiveness and impact and orients technology across a range of disciplines to better enable, sustain, enhance, and quantify human performance.

For example, as technology continues to accelerate the pace of kinetic warfare, HS S&T partnered with AI and autonomy S&T can in turn help warfighters make rapid decisions and retain the initiative. Likewise, as misinformation, disinformation, and malign influence have become more powerful and ubiquitous, advances in HS S&T paired with improved AI and autonomy could help inoculate warfighters and citizens against these threats and shape the global information environment.

Framework. The HS S&T enterprise comprises four focus areas: Human-Machine Teaming/Systems Interfaces and Cognitive Processes (SICP); Personalized Education, Assessment, and Training (PAET); Protection, Sustainment, and Warfighter Performance (PSWP); and Operations in the Information Environment (OIE). The vision of the DoD HS S&T Strategy is to develop and deliver technologies to improve mission effectiveness by enabling, sustaining, and enhancing human and technology performance.

The strategy focuses on increasing military HS capabilities across the following timeframes:

- ◆ Near: Enhancing capabilities for measuring warfighters' performance, managing readiness, and enhancing effectiveness in training and operational contexts
- ◆ Medium: Expanding the ability of humans to perform within teams that include humans and/or machines
- ◆ Far: Developing adaptive systems that can learn through interaction with human teammates and other machines to enable uniquely effective teams that are sensitive to individual differences, context, and change

The HS S&T Strategy also outlines the Critical Technology Objectives across the focus areas of SICP, PAET, PSWP, and OIE in the Distro D version, published on DTIC .

POC: CDR Wilfred Wells, OUSD(R&E)



Human Systems Community of Interest (HS Col) Newsletter



Spring 2024

Col Accomplishments

Integrated Cockpit Sensing (ICS) Ability Demonstrated at USAF Test Pilot School

Pilot physiological episodes are a continuing challenge for the DoD. The 711th Human Performance Wing and BAE Systems visited the USAF Test Pilot School (TPS) at Edwards Air Force Base from 27 Feb - 15 Mar 24 to consult on a student physiologic sensing project called "HAVE BLO2D." The objective was to determine the utility of ICS pilot-mounted systems that are able to simultaneously collect and merge aircrew physiological data and aircraft environmental conditions. Understanding the effects of aircraft oxygen delivery may lend insight into pilot Unexplained Physiologic Events (UPEs) and ultimately mitigations to eliminate them.

The test project design was to demonstrate ICS's ability to measure physiologic pilot and environmental aircraft data and then assess its utility during flight. The specific test objectives were to demonstrate the system's ability to detect a physiological insult and to characterize the accuracy in measuring aircraft state data. Testing consisted of 6 Reduced Oxygen Breathing Device exposures and 22 F-16D sorties, totaling about 40 flight test hours. The ICS system allows for TPS and other test entities to do real-time data integration and time hacking of test points in active flight. As a result, the student team was able to identify operationally relevant mask faults and physiologic stresses within the ICS output data. ICS is now approved to fly with future TPS projects for the next 3-years due to the effective collaboration of TPS students and cadre, 711 HPW, and BAE Systems.

POCs: Mr. Christopher Dooley and Ms. Megan Gallo, 711 Human Performance Wing

3rd Marine Division (3MARDIV) Squad Competition

From 22-26 Jan 24, ONR Warfighting Performance Department representatives supported the 3MARDIV Squad Competition at Camp Hansen in Okinawa, Japan. Three Marine Corps Squads competed in a 72-hour continuous field exercise followed immediately by a marksmanship competition. Infantry Marines from 4th Marine Regiment collected data to support determination of the competition's winner, which included assessments developed by ONR. Specifically, Squad Behaviorally Anchored Rating Scales were deployed on the Field Assessment System and marksmanship data using the Joint Marksman Assessment Program. ONR supported on-site training as well as the collection, processing, and data analysis. Following this event, tools developed under the Human Performance T&E portfolio will support the Marine Corps Squad Competition to be held at MCB Quantico.



POC: Dr. Peter Squire, Office of Naval Research

Transition Process Beginning With AETC to Personalize Linguist Training for Purple Force Warfighters

The personalization of warfighter training is vital for enhanced mission effectiveness. The Predictive Analytics for Optimized Learning research team at the 711 Human Performance Wing is working with the Air Education Training Command (AETC) to begin the technology transition process of their cognitive-machine learning ensemble capabilities to all foreign language schoolhouses at the Defense Language Institute (DLI). This is a result of a successful, collaborative demonstration of capability to personalize learning and advance student performance in a cohort of Arabic linguist students who have piloted this work under the Linguist Next project. AETC has begun the authorization to operate (ATO) process to minimize risk and manage risk responsibility, as DLI's Office of Standardization and Academic Excellence wishes to adopt the system for expanded use to all students studying all languages. This milestone represents valid demonstration of performance in a breadboard environment and advancement of technology readiness level.

POC: Dr. Tiffany Jastrzembki Myers, 711 Human Performance Wing



Human Systems Community of Interest (HS Col) Newsletter

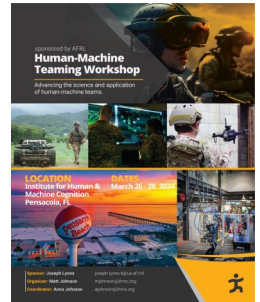


Spring 2024

Col Accomplishments (Continued)

AFRL Hosts Human Machine Teaming Workshop

Senior technical leaders from across the Air Force, Army, Navy, Office of the Secretary of Defense, NASA, DARPA, and industry met in March to discuss the challenges and way forward for Human-Machine Teaming. Thirty researchers met at the Institute for Human-Machine Cognition (IHMC) in Pensacola, FL, a total of 10 Senior Scientists representing the Air Force, Army, Navy, NASA, and OSD were present and 6 Technical Directorates across the Air Force Research Laboratory were present along with subject matter experts from leading Industry groups such as Microsoft, Raytheon, Shield AI, and Nissan. This multidisciplinary group discussed the pitfalls and research challenges of fielding unrivaled Human-Machine Teams within the DoD. Given the proliferation of technology in the form of autonomy and Artificial Intelligence (AI), it is imperative that the DoD employ machines with the appropriate affordances for maximizing meaningful human control, trust calibration, and that machines are developed, tested, and ultimately used in ways that are consistent with our values through the responsible use of the technologies. Dr. Joseph Lyons, Senior Scientist for Human-Machine Teaming at AFRL, was the overall Chair for the event and Dr. Matthew Johnson, a technical expert in Human-Machine Teaming at IHMC, served as the event's host and facilitator.



POC: Dr. Joseph Lyons, 711 Human Performance Wing

Next Generation Air Force Officer Qualifying Test (AFOQT)

The AFOQT has been an important component of the Air Force Personnel Testing Program since 1953, and serves as an important tool for officer commissioning and aircrew training classification. It is widely accepted as a useful and cost-effective personnel selection instrument and is periodically updated to guard against item obsolescence and overexposure as well as ensure psychometric quality. Since its inception, the AFOQT has undergone several revisions, with the new Form U replacing Form T.

The current effort aims to achieve three goals:

- ◆ Broaden the measurement of cognitive abilities
- ◆ Increase predictive validity of occupational performance; and
- ◆ Improve diversity and inclusion of the workforce

To achieve these goals, Form U plans to keep numerous noncognitive and cognitive Form T subtests as well as potentially add several experimental cognitive subtests. Additionally, the new form is expected to be a hybrid assessment with some subtests adaptive and others static to increase testing efficiency and measurement precision. Approximately 1,500 new cognitive items were generated and trialed to determine their suitability for inclusion in the new test with a sample size across several data collection methods of nearly 11,000 cases. After removing data determined to be noise (insufficient effort responding indices, chance responding, and unit missingness), the remaining data were analyzed with Classical Test Theory and Item Response Theory procedures to identify test items that need to be revised or removed.

POC: Dr. Thomas R. Carretta, 711 Human Performance Wing



Human Systems Community of Interest (HS Col) Newsletter



Spring 2024

Col Accomplishments (Continued)

The Role of Individual Differences in Human-automated Vehicle Interaction

Authors: Fisher, C.; Morris, M. B.; Stevens, C. A.; and Swan, G.

Abstract

As more automation is integrated into vehicles, understanding how humans interact with these new technologies is becoming increasingly important given the high cost of errors. Cognitive models have the potential to provide insights into human-automated vehicle interaction as well as inform risk assessment, user interface design, and risk mitigation interventions. Accounting for individual differences is necessary in order to derive the full benefits of cognitive models. The effort also describes several methods for modeling individual differences and demonstrates potential pitfalls of using a one-size-fits-all model and explains how modeling individual differences is important for risk assessment, designing robust user interfaces and automated systems, and designing effective risk mitigation interventions. Finally, a simulation study is used to demonstrate possible benefits of modeling individual differences in unmanned vehicle management.

Highlights

- Including individual differences allows full benefit realization of cognitive models in human-automated vehicle interplay
- Pooling data across heterogeneous individuals can lead to poor predictive validity and averaging artifacts
- Incorporating individual differences into cognitive models can improve risk estimation
- Individual differences are important for evaluating interface design robustness in human-automated vehicle interaction

Read more at International Journal of Human - Computer Studies. <https://doi.org/10.1016/j.ijhcs.2024.103225>

POC: Ms Megan Morris, 711 Human Performance Wing



Human Systems Community of Interest (HS Col) Newsletter



Spring 2024

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Army	Acting Director, Army Research Institute (ARI)	Dr. Scott Shadrick
SOCOM	Director, SOF AT&L Science & Technology	Ms. Lisa Sanders
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Human Systems Community of Interest (HS Col) Newsletter



Spring 2024

Human Systems Col – SUB-AREA LEADS & MEMBERS		
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Navy	Nav Surface Warfare Center Dahlgren	Dr. Alex Kniffin
Navy	ONR Code 34	Dr. Tim Bentley
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Human Systems Community of Interest (HS Col) Newsletter



Spring 2024

Human Systems Col – SUB-AREA LEADS & MEMBERS		
System Interfaces and Cognitive Processing (SICP)		
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Air Force	AFRL, 711 HPW	Dr. Laurie Fenstermacher
Air Force	AFRL, 711 HPW	Mr. Eric Hansen
Air Force	AFRL, 711 HPW	Dr. Chris Brill
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Army	ARO	Dr. Lisa Troyer
Navy	ONR Code 34	Dr. Rebecca Goolsby
Navy	Naval Surface Warfare Center	Dr. Jessica Jones
Navy	COMPACFLT N5	Dr. Dale Russell
Army	Army Research Lab CCDC Atlantic	Dr. Frederick Gregory
Army	Research & Development Command (RDECOM)	Dr. David Scribner
SOCOM	SOF AT&L Science & Technology	TBD
Army	DEVCOM—Army Research Laboratory	Dr. Jeremy Gaston
Navy	Nav Surface Warfare Center Crane	Dr. Siddharth Maini