



State of the Science Symposia Series:

Impact of Artificial Intelligence on Rehabilitation

Friday, May 10th, 2024

0800 – 1600

**Bethesda Auditorium, 6720A Rockledge Drive,
Bethesda, MD 20817
or
Virtual utilizing Zoom
(Link will be sent after registering)**



**Please complete our simple registration survey using this link
or the QR code to the left:**

tinyurl.com/soss24

Presented by:

**The Center for Rehabilitation Science Research
Musculoskeletal Injury Rehabilitation Research for Operational Readiness
Department of Physical Medicine and Rehabilitation
Uniformed Services University for the Health Sciences**

**Department of Rehabilitation
Walter Reed National Military Medical Center
Defense Health Agency**

**School of Health and Rehabilitation Sciences
Human Engineering Research Laboratories
University of Pittsburgh**

US Department of Veterans Affairs

PRESENTED BY THE CENTER FOR REHABILITATION SCIENCE RESEARCH AND MUSCULOSKELETAL INJURY REHABILITATION RESEARCH FOR OPERATIONAL READINESS, THE DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION AT THE UNIFORMED SERVICES UNIVERSITY FOR THE HEALTH SCIENCES; THE DEPARTMENT OF REHABILITATION, WALTER REED NATIONAL MILITARY MEDICAL CENTER; THE EXTREMITY TRAUMA AND AMPUTATION CENTER OF EXCELLENCE; AND THE UNIVERSITY OF PITTSBURGH SCHOOL OF HEALTH AND REHABILITATION SCIENCES, HUMAN ENGINEERING RESEARCH LABS.

Course Directors:

Rory A. Cooper, PhD: *Director/CEO, Human Engineering Research Laboratories, VA Pittsburgh Healthcare System Associate Dean for Inclusion, School of Health and Rehabilitation Sciences, University of Pittsburgh*

Colonel (ret.) Paul F. Pasquina, MD, *Professor & Chair, Department of PM&R and Director, Center for Rehabilitation Sciences Research, USUHS; Chief, Department of Rehabilitation, Walter Reed National Military Medical Center*

Michelle Nordstrom, OTR/L, *Assistant Professor, Department of PM&R and Director Allied Health, USUHS. Department of Rehabilitation, Walter Reed National Military Medical Center.*

Tawnee L. Sparling, MD, *Assistant Professor, Department of PM&R and Medical Director Amputee Care, Director Combat Casualty Care, USUHS. Department of Rehabilitation, Walter Reed National Military Medical Center.*

Jenny Yuan, MD PhD, *Assistant Professor, Department of PM&R and Vice Chair for Research, USUHS. Department of Rehabilitation, Walter Reed National Military Medical Center.*

Overview and Objectives

The overall objective of this symposium is to provide participants with an overview regarding the current state of and developmental pathways for the use of artificial intelligence in physical medicine and rehabilitation. The course will identify and explore the potential of ongoing research in this burgeoning field and how best to harness this novel toolset to improve patient care and health outcomes. Additionally, there will be a strong focus on alignment, synchronization and integration for future research and rehabilitation initiatives.

Who Should Attend

The content of the sessions will benefit civilians, veterans, and military service members, their families, caregivers, community-based organizations, government agency personnel, healthcare providers and trainees, who are interested in novel ways to mitigate injury, enhance recovery, improve rehabilitation, function, and community reintegration of individuals with neuro-musculoskeletal conditions, including military service members and veterans with war-related injuries.

We gratefully acknowledge the support of The Paralyzed Veterans of America for this symposium.



**Paralyzed Veterans
of America**

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0730 – 0800 Check-in and Registration

0800 – 0815 Introduction

Paul F. Pasquina, MD

*Department Chair, Department of Physical Medicine and Rehabilitation
Uniformed Services University, WRNMMC*

0815 – 0900 AI Usage in Invention

Rory A. Cooper, PhD

*Founder/Director, Human Engineering Research Laboratories
University of Pittsburgh, Department of Veterans Affairs*

0900 – 0945 Impact of Generative AI on Peer-Reviewed Publishing

Walter Frontera, MD, PhD

*Chair, Department of Physical Medicine and Rehabilitation
Vanderbilt University*

0945 – 1030 Generative AI on Rehabilitation and Medical Documentation

Bambang Parmanto, PhD

*Professor and Chair, Department of Health Information Management
School of Health and Rehabilitation Sciences
University of Pittsburgh*

1030 – 1115 AI for Measuring Rehabilitation Outcomes

Arun Jayaraman, PT, PhD

*Director Max Nader Center for Rehabilitation Technologies & Outcomes Research
Shirley Ryan Ability Lab*

1115 – 1200 Artificial Intelligence in Rehabilitation Diagnostics

Levent Ozcakar, MD

Full Professor

Hacettepe University Medical School, Ankara, Turkey

1200 – 1300 Lunch

1300 – 1345 AI Supported Human Performance

Lt. Col. Joshua R. Duncan, MD, MPH, FAAP

Assistant Dean for Assessment

Preventative Medicine and Biostatistics, Uniformed Services University

1345 – 1400 Impact of State of the Science on Military Medicine

LTG (ret) Eric Schoomaker, MD, PhD

*Professor Emeritus, Department of Military and Emergency Medicine
Uniformed Services University of the Health Sciences*

1400 – 1420 Remarks

Joseph Carvalho, Jr., MD, MG

President and CEO

Henry M. Jackson Foundation for the Advancement of Military Medicine

1420 – 1445 Remarks

BG Thad J. Collard

*Deputy Commanding General- Operations,
U.S. Army MEDCOM*

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1445 – 1455

Remarks

Jonathan Woodson, MD, MSS, FA

President

Uniformed Services University of the Health Sciences

1455 – 1500

Cake Cutting

1500 – 1545

Viewing of “Bumps in the Road”

Q&A Afterwards

1545 – 1600

Closing Remarks and Questions

Paul F. Pasquina, MD

Department Chair, Department of Physical Medicine and Rehabilitation

Uniformed Services University, WRNMMC

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Accreditation Statement:

In support of improving patient care, this activity has been planned and implemented by the University of Pittsburgh and Department of Veterans Affairs, Uniformed Services University of the Health Sciences, Walter Reed NMMC, Paralyzed Veterans of America. The University of Pittsburgh is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Physician (CME)

The University of Pittsburgh designates this live activity for a maximum of 4.75 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other health care professionals will receive a certificate of attendance confirming the number of contact hours commensurate with the extent of participation in this activity.

Disclosure Statement:

No members of the planning committee, speakers, presenters, authors, content reviewers and/or anyone else in a position to control the content of this education activity have relevant financial relationships with any companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.

Disclaimer Statement:

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