Global Perspectives on Medicine, Rehabilitation and Robotics Webinar Series

April 16th, 2025, 5pm-6pm CAT, 11:00am-12:00pm EST

At-home stroke neurorehabilitation: Design and Validation of a Low-Cost Mobile EEG-Based Brain–Computer Interface

Jose L. Contreras-Vidal, Ph.D., FIEEE, FAIMBE
Hugh Roy and Lillie Cranz Cullen Distinguished Professor; Center Director, NSF IUCRC BRAIN; Co-I, Music, Dementia Research Network; Director, NSF IUCRC BRAIN REU and REM Sites; Director, NIH R25 Neuromotor Training Program Director, Noninvasive Brain-Machine Interface Systems Lab; Department of Electrical & Computer Engineering, University of Houston

Dr. Jose 'Pepe' L Contreras-Vidal is an elected Fellow of the IEEE and AIMBE for his pioneering contributions to development of brain-machine interfaces for controlling wearable exoskeletons for rehabilitation, and for mapping art-evoked brain activity. He led the first comprehensive knowledge integration assessment of the global state of clinical trials of implantable brain-computer interfaces (iBCI) published in Nature Reviews Bioengineering. His work at the nexus of art and science is opening new windows to study the neural basis of human creativity while advancing the understanding of the arts as an active neuromodulator of brain function with applications to the development of personalized arts prescriptions. His art-science team received the Chamber Music America's 2025 Interdisciplinary Collaboration of the Year for "Meeting of Minds", which was performed at the United Nations' 2024 AI for Good" Summit in Geneva, Switzerland. Dr. Contreras-Vidal is a member of the National Advisory Board for Medical Rehabilitation Research at the U.S. National Institute of Health. His career development in biomedical engineering was highlighted by the journal Science.

Register in advance for this webinar: https://us02web.zoom.us/webinar/register/WN_6ei8RgxfSByEYoYi5jv6Ug
After registering, you will receive a confirmation email containing information about joining the webinar.

Jose L. Contreras-Vidal, Ph.D., FIEEE, FAIMBE
Hugh Roy and Lillie Cranz Cullen Distinguished Professor; Center Director, NSF IUCRC
BRAIN, http://nsfbrain.org/; Co-I, Music, Dementia Research Network, https://mdrn.ucsf.edu;
Director, NSF IUCRC BRAIN REU and REM Sites; Director, NIH R25 Neuromotor Training Program
Director, Noninvasive Brain-Machine Interface Systems Lab; Department of Electrical & Computer
Engineering, University of Houston

Dr. Jose 'Pepe' L Contreras-Vidal is an elected Fellow of the IEEE and AIMBE for his pioneering contributions to development of brain-machine interfaces for controlling wearable exoskeletons for rehabilitation, and for mapping art-evoked brain activity. He led the first comprehensive knowledge integration assessment of the global state of clinical trials of implantable brain-computer interfaces (iBCI) published in Nature Reviews Bioengineering. His work at the nexus of art and science is opening new windows to study the neural basis of human creativity while advancing the understanding of the arts as an active neuromodulator of brain function with applications to the development of personalized arts prescriptions. His art-science team received the Chamber Music America's 2025 Interdisciplinary Collaboration of the Year for "Meeting of Minds", which was performed at the United Nations' 2024 AI for Good" Summit in Geneva, Switzerland. Dr. Contreras-Vidal is a member of the National Advisory Board for Medical Rehabilitation Research at the U.S. National Institute of Health. His career development in biomedical engineering was highlighted by the journal Science.

Jose L. Contreras-Vidal, Ph.D.,
FIEEE, FAIMBE
Hugh Roy and Lillie Cranz Cullen
Distinguished Professor
Center Director, NSF IUCRC
BRAIN, http://nsfbrain.org/
Co-I, Music, Dementia Research
Network, https://mdrn.ucsf.edu
Director, NSF IUCRC BRAIN REU and REM
Sites
Director, NIH R25 Neuromotor Training
Program
Director, Noninvasive Brain-Machine Interface
Systems Lab
Department of Electrical & Computer
Engineering
University of Houston

Dr. Jose 'Pepe' L Contreras-Vidal is Hugh Roy and Lillie Cranz Cullen Distinguished Professor, director of the U.S. National Science Foundation Industry-University Cooperative Research Center for Building Reliable Advances and Innovations in Neurotechnology (IUCRC BRAIN) at the University of Houston, and an elected Fellow of the IEEE and AIMBE for his pioneering contributions to development of brain-machine interfaces for controlling wearable exoskeletons for rehabilitation, and for mapping art-evoked brain activity. He led the first comprehensive knowledge integration assessment of the global state of clinical trials of implantable brain-computer interfaces (iBCI) published in Nature Reviews Bioengineering. His work at the nexus of art and science is opening new windows to study the neural basis of human creativity while advancing the understanding of the arts as an active neuromodulator of brain function with applications to the development of personalized arts prescriptions. His art-science team received the Chamber Music America's 2025 Interdisciplinary Collaboration of the Year for "Meeting of Minds", which was performed at the United Nations' 2024 AI for Good" Summit in Geneva, Switzerland. Dr. Contreras-Vidal is a member of the National Advisory Board for Medical Rehabilitation Research at the U.S. National Institute of Health. His career development in biomedical engineering was highlighted by the journal Science.