



IEEE Engineering in
Medicine & Biology Society

IEEE EMBS GRAND CHALLENGES FORUM

Data Science & Engineering in Healthcare

Medical Imaging

Precision Medicine

Digital Healthcare

Brain and Neural
Systems

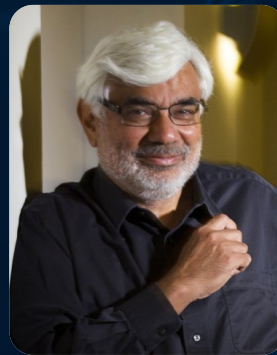
VIRTUAL • FEBRUARY 10 - 13, 2021

Organizing Committee

Free
Registration



M. AKAY, Chair
University of Houston



S. SUBRAMANIAM, Co-chair
*University of California,
San Diego*



P. SAJDA, Program Chair
Columbia University



J.M. PO, Program Co-chair
Google Inc.

<https://bit.ly/3sF7TNQ>

<https://grand-challenges.embs.org/2021datascience>



February 10

10:00 am – 2:00 pm EST



IEEE Engineering in
Medicine & Biology Society

Symposium **#1**: Medical Imaging

Plenary Speakers

IEEE EMBS GRAND CHALLENGES FORUM

Data Science & Engineering in Healthcare



RODERIC PETTIGREW
Texas A&M University



MICHAEL I. MILLER
Johns Hopkins University



CYNTHIA RUDIN
Duke University



MUYINATU BELL
Johns Hopkins University



LAURA WALLER
UC Berkeley



MARCO LORENZI
Université Côte d'Azur



HAYIT GREENSPAN
Tel Aviv University

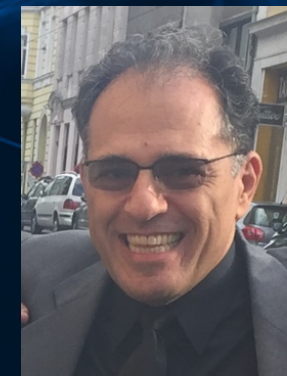


ERIC HOFFMAN
University of Iowa

Moderators



ANDREW LAINE
Columbia University



AMIR AMINI
University of Louisville

**FREE
REGISTRATION**



<https://bit.ly/3sF7TNQ>

<https://grand-challenges.embs.org/2021datascience>



February 11

10:00 am – 2:00 pm EST



IEEE Engineering in
Medicine & Biology Society

Symposium #2: Precision Medicine

Plenary Speakers



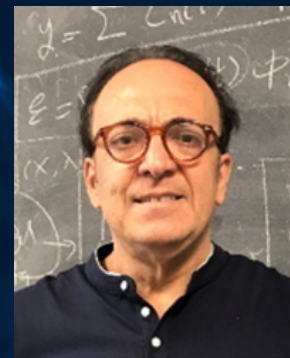
RAIMOND L. WINSLOW
Johns Hopkins University



CURTIS C. HARRIS
NCI/CCR



KAMALA K. MADDALI
Deep Lens Inc



GEORGE EM KARNIADAKIS
Brown University



ERIN SHELLMAN
Ginkgo Bioworks, Inc



THOMAS WILCKENS
InnVentis Ltd.



**JADWIGA
BIENKOWSKA**
Pfizer



CRAIG CUMMINGS
Genentech



ANITA ROGACS
HP

IEEE EMBS GRAND CHALLENGES FORUM

Data Science & Engineering in Healthcare

Moderators



COLIN BRENNAN
1CellBio Inc.



ALI TINAZLI
Fluxergy

**FREE
REGISTRATION**



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February 12

10:00 am – 2:00 pm EST



IEEE Engineering in
Medicine & Biology Society

Symposium #3: Digital Healthcare

Plenary Speakers

IEEE EMBS GRAND CHALLENGES FORUM

Data Science & Engineering in Healthcare



DEREK O'KEEFFE

National University of
Ireland Galway



DEBORAH ESTRIN

Cornell University & Cornell Tech



WENDY J. NILSEN

National Science Foundation



THOMAS F. QUATIERI

MIT



DAVID CLIFTON

University of Oxford



BJOERN ESKOFIER

Friedrich-Alexander University
Erlangen-Nuernberg



JULIEN PENDERS

Bloomlife Inc

Moderators



PAOLO BONATO

Harvard University



JEFF PALMER

MIT



**FREE
REGISTRATION**

<https://bit.ly/3sF7TNQ>

<https://grand-challenges.embs.org/2021datascience>

Symposium #4: Brain and Neural System**IEEE EMBS GRAND CHALLENGES FORUM**

Data Science & Engineering in Healthcare

Plenary Speakers**EMERY N BROWN**
MIT**PAUL SAJDA**
Columbia University**ALDO FAISAL**
Imperial College, London**SRIDEVI V. SARMA**
Johns Hopkins University**ANDREAS SAVAS TOLIAS**
Baylor College of
Medicine**GABRIEL A. SILVA**
University of California,
San Diego**MARYAM SHANECHI**
University of South Carolina**MENGJIA XU**
McGovern Institute for
Brain Research, MIT**Moderators****ERIKA ROSS**
Abbott
Neuromodulation**METIN AKAY**
*University of
Houston***FREE
REGISTRATION**<https://bit.ly/3sF7TNQ><https://grand-challenges.embs.org/2021datascience>