

AI4CC AI FOR OVERCOMING GLOBAL 2020 DISPARITIES IN CANCER CARE

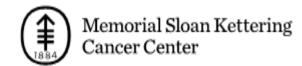






Thomas J. Fuchs, Dr. Sc.Associate Attending, Memorial Sloan Kettering Cancer Center (MSKCC)
Associate Professor, Weill Cornell Medicine

Director of Computational Pathology, Department of Pathology

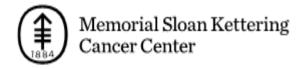


Introduction



PAIGE

Founder & Chief Scientific Officer





April 26, 2020

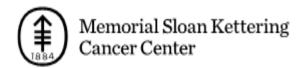
12:00 – 1:00pm EST Live Q&A Session I

4:00 – 5:00pm EST

Poster Session

5:00 – 6:00pm EST

Live Q&A Session II

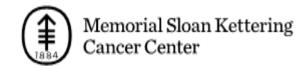




Meta Learning for Limited Datasets

Sergey Levine, PhD
Assistant Professor, UC Berkeley, EECS





Addressing South Africa's Cancer Reporting Delay Using Machine Learning

Waheeda Banu Saib Research Scientist, IBM Research, Africa

Challenges and Opportunities for AI in Radiology

Michael G. Kawooya, PhD Radiologist, Researcher, and Director of ECUREI

A Multimodal Imaging System for Cervical Cancer Prediction

David Brenes, PhD Candidate
Rebecca Richards-Kortum's Optical Spectroscopy & Imaging Laboratory, Rice University

Al for Cancer Diagnosis in Resource Deprived Areas

Yuchun Ding, PhD Research Associate, Newcastle University

Deep Learning in Digital Pathology

Amit Sethi, PhD Associate Professor, Indian Institute of Technology, Bombay

Application of AI and Machine Learning in the Development of Point-of-Care Diagnostics Devices in Africa

Oluwatoyin P. Popoola, PhD University of Lagos, Nigeria

Disparities in Cancer Care

T. Peter Kingham, MD, FACS (Moderator)

Director, Global Cancer Disparity Initiatives

Co-Founder & President, Surgeons Overseas (SOS)

Associate Attending, Department of Surgery, Memorial Sloan-Kettering Cancer Center

Marcia Edelweiss, MD

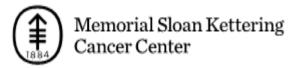
Associate Attending Pathologist, Department of Pathology, Memorial Sloan-Kettering
Cancer Center

Peter Ntiamoah, PhD

Surgical Pathology Manager, Department of Pathology, Memorial Sloan-Kettering Cancer Center

Olusegun Isaac Alatise, MD, MB.ChB, M.Sc, FWACS, FMCS

Department of Surgery, Obafemi Awolowo University



Schedule

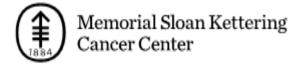


Johan Lundin, MD, PhD

Research Director, FIMM -Institute for Molecular Medicine Finland, University of Helsinki

Professor, Department of Public Health Sciences, Karolinska Institutet, Stockholm





Background



- Cancer is the second leading cause of death globally
- In 2018, cancer was responsible for an estimated 9.6 million deaths
- 70% of deaths from cancer occur in low- and middle-income countries (LMIC).

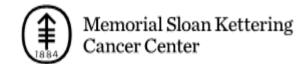




Leading factors for high cancer mortality



- Accessibility
- Public knowledge of common symptoms
- Screening Tools
- Specialized cancer care facilities

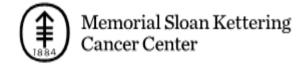


The potential of representation learning approaches



Learn from different modalities of data to:

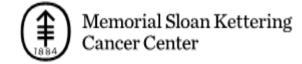
- Increase access to healthcare
- Provide diagnostic/screening tools in hard-to-reach areas
- Guide better care at a lower cost, and
- Offer guidance to healthcare workers in the absence of trained medical personnel



Workshop Aims



- (1) Assess challenges in global cancer care
- (2) Highlight current AI solutions
- (3) Facilitate impact driven discourse between clinicians and machine learning experts



Organizing Committee

Hassan Muhammad
PhD Candidate,
Weill Cornell Medicine



Dig Vijay Kumar Yarlagadda, Msc Machine Learning Engineer, Memorial Sloan Kettering Cancer Center (MSKCC)

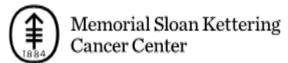


Christina M. Virgo, Esq.
Project Portfolio Manager,
Memorial Sloan Kettering
Cancer Center (MSKCC)



Gabriele Campanella, Msc PhD Candidate, Weill Cornell Medicine (WCM)





Workshop Chairs

Thomas J. Fuchs, Dr. Sc.

Associate Attending,
Memorial Sloan Kettering Cancer Center (MSKCC)
Associate Professor, Weill Cornell Medicine
Director of Computational Pathology,
Department of Pathology



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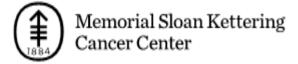


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Thank you