Report on the visit of IEEE Computational Intelligence Society Distinguished Lecturer Professor Sushmita Mitra to the Rio de Janeiro Chapter

Due to the social distancing measures imposed by the COVID-19 pandemic, Rio de Janeiro received Professor Sushmita Mitra's lecture via Zoom Meetings. Details on this event are presented below.

• Distinguished Lecture

Date: September 10th, 2020, 9:00 AM to 10:10 AM (Rio de Janeiro time)

Organizer: Harold Dias de Mello Junior (Chair of the CIS/IEEE Rio de Janeiro

Chapter)

Location: remote meeting (via Zoom)

Title: Intelligent Biomedical Image Analysis

Abstract: This talk's focus will be on image analysis, mainly related to brain tumor MRIs (gliomas) — involving intelligent decision-making. It will encompass segmentation, classification, feature extraction & selection to improve diagnosis, prognosis, and treatment planning towards tumor management. Beginning with an introduction to the nuances of MRI and deep learning, we will introduce a fast localization and detection algorithm involving saliency, followed by a single seed delineation technique for the tumor. Finally, we will describe a couple of deep learning-based approaches for the detection, classification, segmentation, and survival prediction in glioma patients.

Description: This event was announced on the Rio Chapter's Website: https://r9.ieee.org/rdj-cis/cis-distinguished-lectures-program-intelligent-biomedical-image-analysis-nov-10th-2020-9-am-brt/

Previously, all Chapter members were notified by email.

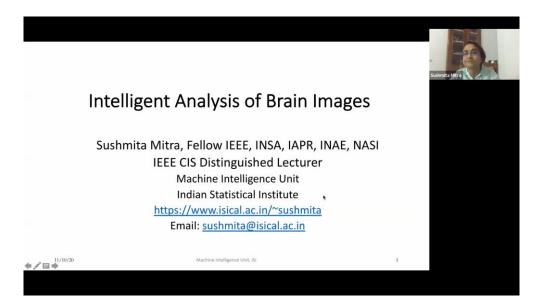
The event was also published on the group of the Brazilian Computational Intelligence Society and even on international lists.

A pre-registration was made on the Rio Chapter's Website. We had 84 registrations approved. However, due to technical problems, the lecture was attended by up to 44 attendees, including undergraduate, graduate, professors, and researchers. Professor Sushmita presented the state-of-the-art models for medical image segmentation and classification with a clear language and accessible to all participants. The 50-min talk was very well received and gave rise to some participants' questions, with about 20 minutes of detailed answers by DL Sushmita. The Rio de Janeiro Chapter kindly thanks professor Sushmita Mitra and IEEE CIS DL Program.

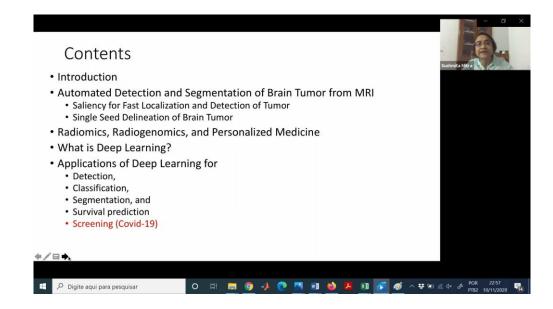
This lecture is available privately on the Rio de Janeiro Chapter channel on YouTube for its members.

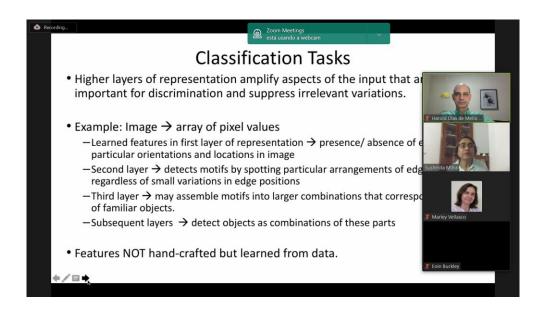
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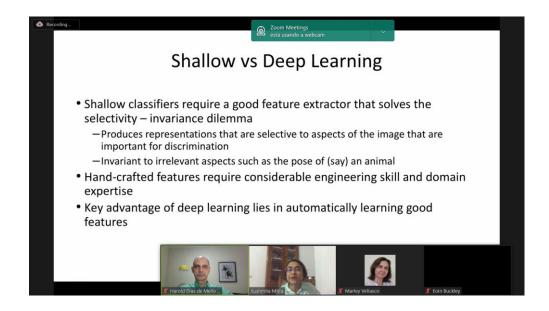
Some photos of the meeting are included below.

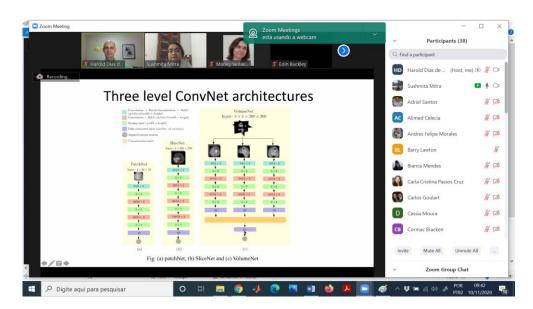


Professor Sushmita starts its talk











Printscreen at the end of the Professor Sushmita talk