UNIVERSITY OF SOUTH FLORIDA

Major Research Area Paper Presentation

Survival Time Prediction from Unannotated Lung Cancer Histopathology Images by Nikolai Fetisov

For the Ph.D. degree in Computer Science and Engineering

Lung cancer is the leading cause of cancer-related deaths responsible for over 130,000 deaths each year in the US. Early diagnosis and prompt treatment are crucial for prolonging survival. Most research is focused on ranking patients according to their expected survival time-0vWI ti

term and long-term survival from lung cancer histopathology images without ROI annotations. We have obtained an 0.81 AUC when predicting whether a patient would fall into the short-term survival group (less than 12 months) or long-term survival group (greater than 60 months). Furthermore, we show that our model is capable of classifying patients into long- and short-term survival even when their survival time falls outside of our chosen ranges.

Friday, February 11, 2022 1:00 PM EST In-person: ENB 313, Online: <u>MS Teams</u>

The Public is Invited

<u>Examining Committee</u> Lawrence Hall, Ph.D., Major Professor Dmitry Goldgof, Ph.D. Matthew Schabath, Ph.D. Sudeep Sarkar, Ph.D. Ashwin Parthasarathy, Ph.D.

Xinming Ou, Ph.D. Associate Chair for Graduate Affairs Computer Science and Engineering College of Engineering Sudeep Sarkar, Ph.D. Department Chair Computer Science and Engineering College of Engineering

Disability Accommodations:

If you require a reasonable accommodation to participate, please contact the Office of Diversity & Equal Opportunity at 813-974-4373 at least five (5) working days prior to the event.