171st ICB Seminar
Meeting of BosomShield Project participants

IBBE PAS, Warsaw   **17-19 April, 2024**

Day 1 (Wednesday) 17/04/2024

14.00 – 14.15   Welcome with coffee

14.15 – 15.15   Invited lecture by **prof. Wodzisław Duch** (Department of Informatics, Institute of Engineering and Technology, School of Physics, Astronomy and Informatics, Nicolaus Copernicus University):

   "Large foundational AI models, brains, transfer learning and scientific discoveries"

15.45 – 16.10   Adnan Khalid

   Automatic Breast tumor Detection and Classification using Boundary Enhanced Deep Learning Mode

16.15 – 16.40   Zhikai Yang

   Generation of Breast Images with Generative and Super-Resolution Models

16.45 – 17.10   Raneim Mohamed

   Can we extract only density features from mammograms?

17.15 – 18.00   Workshop - introduction

18.15   *Get together with all participants*

Day 2 (Thursday) 18/04/2024

9.00 – 9.25   Alessio Fiorin

   Towards region of interest registration on breast histological whole slide images

9.30 – 9.55   Shrief Abdelazeez

   Towards automatic quantification of Stromal TILs in H&E stained breast cancer histopathological images

10.00 – 10.30 Coffee break

10.30 – 10.55	DCs presentation: Muhammad Zaka-Ud-Din

AI models for breast cancer detection in H&E slides.

11.00 – 11.25 Tewele Weletnsea Tareke

Automatic quantification of breast cancer prognosis from multiple 18FDG PET Imaging

11.30 – 11.55 Łukasz Roszkowiak (IBBE PAS):

"AI support for Inflammatory Spindle Cell Lesion diagnostics"

12.00 – 13.00 Invited lecture by **prof. Żaneta Świderska - Chadaj** (Warsaw University of Technology):

"***Artificial Intelligence in digital pathology – challenges and opportunities***

13.00 – 13.30 Lunch

13.30 – 16.00 Workshop - students group will done experiments one by one, so they can participate in coffee break when the other group work

14.00 – 15.00 BS project board meeting - if necessary

15.00 – 15.30 Coffee break

15.30 – 16.00 Posters presentation (mainly by IBBE researchers and TIB PAN Doctoral School students)

16.15 City tour (16.30-19.00) and dinner from 19.00

Day 3 (Friday) 19/04/2024

9.00 – 10.00 Invited lecture by **prof. Renata Duchnowska** (Professor and Head, Department of Oncology Military Institute of Medicine National Research Institute):

"Radiological and pathomorphological standards in the diagnosis and treatment monitoring of patients with breast cancer"

10.00 – 10.30 Coffee break

10.30 – 12.00 Workshop - final meeting

12.00 – 13.30 Lunch

13.30 – 13.55 Rigon Salluaka

Extraction of medical concepts from clinical notes using large language model

14.00 – 14.25 Fasiel Ahmed

Privacy attacks in Federated Learning

14.30 – 15.00 Coffee break

15.00 – 15.25 Yaqeen Ali

Automatic mammogram classification

15.30 – 15.55 Antonina Pater (IBBE PAS):

"AI supported for cytology smear screening"

16.00 – 17.00 Open disscusion and feedbeck for BS students
17.00 – 17.10 Closing ceremony