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Interdyscyplinarne Centrum Modelowania Matematycznego i Komputerowego
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Taxila global scientific literature text-mining intelligence for oncology research

The Interdisciplinary Centre for Mathematical and Computational Modelling at the University of Warsaw (ICM UW)
jointly with
The Systems Biology Institute (SBI) in Tokyo

Overview: The purpose of this workshop is to acquaint attendees with the toolset of Taxila – text-mining intelligence deployed on ICM system in collaboration with The Systems Biology Institute (SBI) in Tokyo. Particular focus of this workshop will be text-mining and potential hypothesis generation for oncology research, based on the possibly entire global corpus of scientific literature in this domain.

Taxila is an AI-driven framework enabling advanced big-scaled text analysis and its conversion into useful scientific insight. In particular, given an access to a huge database of scientific publications, Taxila allows to develop an understanding between various concepts presented in the papers via several tools as tag analysis, concept correlation or graph visualisation [1].

This is the first workshop organised jointly by ICM and SBI, a new collaborative initiative where SBI brings Taxila and ICM contributes, among other things, with the corpus of scientific literature forming ICM Virtual Library of Science -a full-text collection of over 160 thousand of scientific books and over 26,000 scientific journals.

The workshop will be led by SBI team with its thematic focus on oncological diseases.

Planned outcome: After the workshop the participants should be able to search in the scientific database for their points of interest via Taxila.

Date: 3rd December 2021 - Taxila methodology and tools [2]
Time: 4:00 PM (GMT+1)
Duration: 3 hours
Instructors: Samik Ghosh, Ayako Yachie (tentative), Suchee Kumar Palaniappan
Participants:
- Scientists, researchers and doctors in the field of oncology;
- Max number of participants: 20

Registration [until Nov 30] : https://akademia.icm.edu.pl/szkolenia/taxila-global-scientific-literature-text-mining-intelligence-for-oncology-research/

References and notes:
[1] Akujuobi U., Spranger M., Palaniappan S.K., Zhang X. 2020 T-PAIR: Temporal Node-pair Embedding for Automatic Biomedical Hypothesis Generation *IEEE Transactions on Knowledge Sand Data Engineering*
[2] Second, follow-up session with much richer corpus of scientific texts will be run in January 2022

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