Assignment 3: Sequential Recommendations

Due: **November 22, 2020**
Points: 30/100
Submit: A file upload at Moodle

Motivated by the sequential methods we discussed in class (for more details, here is the link of the presentation https://moodle.tuni.fi/pluginfile.php/1200201/mod_resource/content/1/lecture08_sequentialrecs.pdf and the link of the corresponding research paper https://people.uta.fi/~kostas.stefanidis/docs/sac20.pdf), the goal of the third assignment is to design (**Score: 30%**) and implement (**Score: 30%**) a new method for producing sequential group recommendations.

Hint: There is no need to design a method from scratch. For the needs of this assignment, you can suggest simple modifications of the existing approach, e.g., by proposing and using alternatives for group aggregation that ensure good results for the group.

Produce a group of 3 users, and for this group, show the top-20 recommendations in 5 different sequences, i.e., the 20 movies with the highest prediction scores in 5 rounds (**Score: 10%**).

The assignment may be completed in pairs. Each pair submits one only assignment, and both students are expected to understand, be able to explain, and be able to modify the implementation.

Any programming language for your assignment is acceptable.

Please explain any assumptions you made. The implementation of each assignment will be accompanied with a report (**Score: 30%**) describing the method you propose (max 4 pages).

Submit your codes and the report at Moodle before **NOVEMBER 22, 2020**. Some instructions on how to run your codes are necessary.

At the end of the course, we will have a session for examining the assignment.