

Zgłoszenie tematu pracy dyplomowej :: **STUDIA II STOPNIA** ::

na rok akademicki 2020/21

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| Promotor: | dr hab. Jozef Kapusta, prof. UP |
| Temat pracy magisterskiej (j. polski, j.angielski): | E-courses Analysis Using Web Usage Mining Methods <i>Analiza kursów elektronicznych za pomocą metod Web Usage Mining</i> |
| Zakres pracy i oczekiwane rezultaty praktyczne: | <p>Learning analytics gains more and more attention in the field of education. Learning analytics applies modern statistical techniques and machine learning methods to the learning process.</p> <p>The thesis will be focused on the analysis of the behaviour of students in the virtual learning environment Moodle. This system creates its log file (activities record) witch follow series – sequences in visiting individual moodle sources (activities) by the student in e-course. In sequences, we can look for students behaviour patterns.</p> <p>The diploma thesis aims to analyse selected e-courses from Moodle using web usage mining techniques.</p> |
| Aspekt naukowy, problemowy, innowacyjny pracy: | Selection and implementation of web mining techniques, analysing e-courses using the web usage mining techniques. |
| Oprogramowanie, język programowania, środowisko systemowe: | any data mining tools (optional) like Jupyter Notebook (Python), RapidMiner, Orange, KMine etc. |
| Środowisko uruchomieniowe | Windows or Linux |
| Dodatkowe wymagania i uwagi: | english language |
| Literatura: | <ol style="list-style-type: none"> 1. Lang, C., Siemens, G., Wise, A., Gašević, D.: The Handbook of Learning Analytics. Society for Learning Analytics Research (2017) 2. Romero, C., Ventura, S., Pechenizkiy, M., Baker, R.S.J.d.: Handbook of Educational Data Mining. Chapman & Hall/CRC (2010) 3. Preidys, S., Sakalauskas, L.: Analysis of students' study activities in virtual learning environments using data mining methods. Ukio Technologinis ir Ekonominis Vystymas 16, 94-108 (2010) 4. Munk, M., Kapusta, J., Švec, P.: Data preprocessing evaluation for web log mining: reconstruction of activities of a web visitor. Procedia Computer Science 1, 2273-2280 (2010) |