

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

Promotor:	dr hab. Jozef Kapusta, prof. UP
Temat pracy magisterskiej (j. polski, j. angielski):	Creation Neural Network for Prediction Selected Weather Indicators in Cracow
Zakres pracy i oczekiwane rezultaty praktyczne:	<p>The diploma thesis is focused on the application of neural networks. The advantage of the usage of neural networks for prediction is that they are able to learn from examples only and that after their learning is finished, they are able to catch hidden dependencies.</p> <p>The aim of the practical part is to represent the functionality of the neural network using the predictive model created in the Jupyter Notebook environment (Python) with API Keras (TensorFlow). The prediction model will serve to predict the evolution of selected weather indicators on a given period based on the time in Cracow.</p>
Aspekt naukowy, problemowy, innowacyjny pracy:	Selection and implementation of neural network methods, analyzing weather source data by machine learning methods.
*Oprogramowanie, język programowania, środowisko systemowe:	Jupyter Notebook environment (Python) with API Keras (TensorFlow).
*Środowisko uruchomieniowe	Windows or Linux
Dodatkowe wymagania i uwagi:	english language
*Literatura:	<ol style="list-style-type: none"> 1. BING, L. 2011. Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data. Springer Heidelberg. p. 637. ISBN 978-3-642-19459-7. 2. MUNK, M., KAPUSTA, J., ŠVEC, P., 2010: Data Preprocessing Evaluation for Web Log Mining: Reconstruction of Activities of a Web Visitor, in ICCS 2010 - International Conference on Computational Science, Elsevier Science: Amsterdam. p. 2267-2274.

*pola opcjonalne