

30 AUG (THU)

11:00AM - 12:30PM

VENUE : COMPLEXITY INSTITUTE
(ABN-01B-07)

COMPLEXITY COMMUNITY
SHARING SESSION

AUGUST 2018

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Recognition of Emotions and Abusive Language in Texts : Machine Learning Models and Their Interpretability

How do we tackle text-modeling challenges, and how are we able to recognise and understand important issues like, for example, the deep, emotional attitude of a writer, through R&D machine-learning projects? And, in particular, how do we identify language that indicates abusiveness through machine-learning models? These techniques are used often; however, when tested on Polish datasets, there is another layer of complexity involved.

Adapting Natural Language Processing (NLP) techniques for use with the Polish language is a particularly challenging task because of the complex grammar and rich inflection involved, and also because language resources are small and relatively sparse. It is, nevertheless, still very interesting to look into how machine-learning and text-modeling fare and cope with rare languages. In this talk, I will be presenting various techniques that are used to diagnose machine-learning models dedicated to text classification.

Speaker : Asst. Prof. Anna Wróblewska



Anna Wróblewska is Assistant Professor at the Warsaw University of Technology. She has years of experience in the design of intelligent systems and description of semantic data acquired in commercial and scientific environments and is also a senior data scientist at *Applica.ai*, in charge of several R&D projects about text-mining, image recognition, and model diagnostics and interpretability.

Previously she worked at *Allegro*, the biggest e-commerce marketplace portal in Eastern Europe, where she dealt with the intelligent methods of data analysis. An author of over 45 publications in Polish and international journals/materials, her main research interest is machine-learning in practical applications, primarily the semantic understanding of data: text and image, semantic search, text-mining, learning and building ontology, and recommender systems.