CS 5/7320 Artificial Intelligence

More Important Al Topics

Slides by Michael Hahsler



This work is licensed under a <u>Creative Commons</u> <u>Attribution-ShareAlike 4.0 International License</u>.



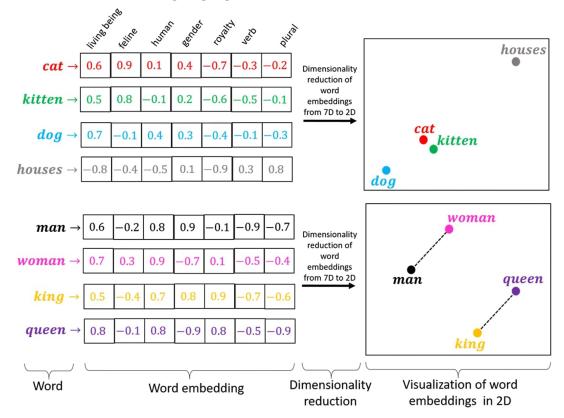
## Natural Language Processing (NLP)

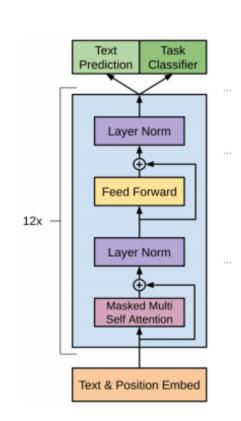
## Tasks:

- Speech recognition
- Text classification
- Natural-language understanding
- Natural-language generation.

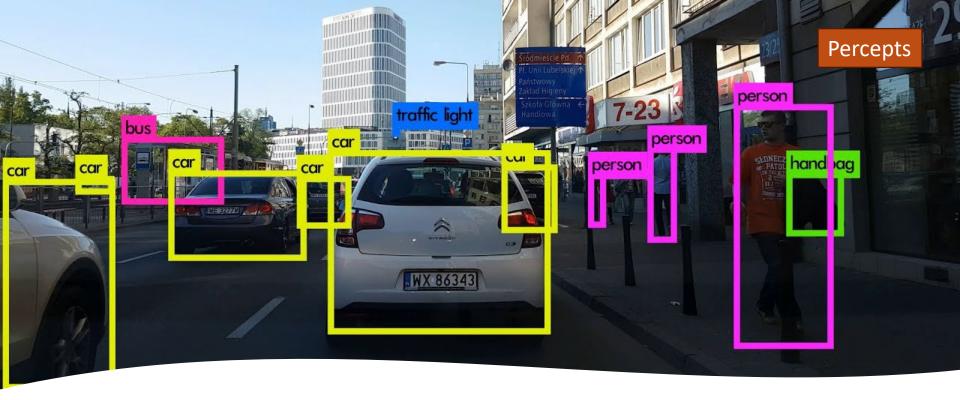
## Techniques:

- Text embeddings
- Transformers
- Large language models (LLMs)



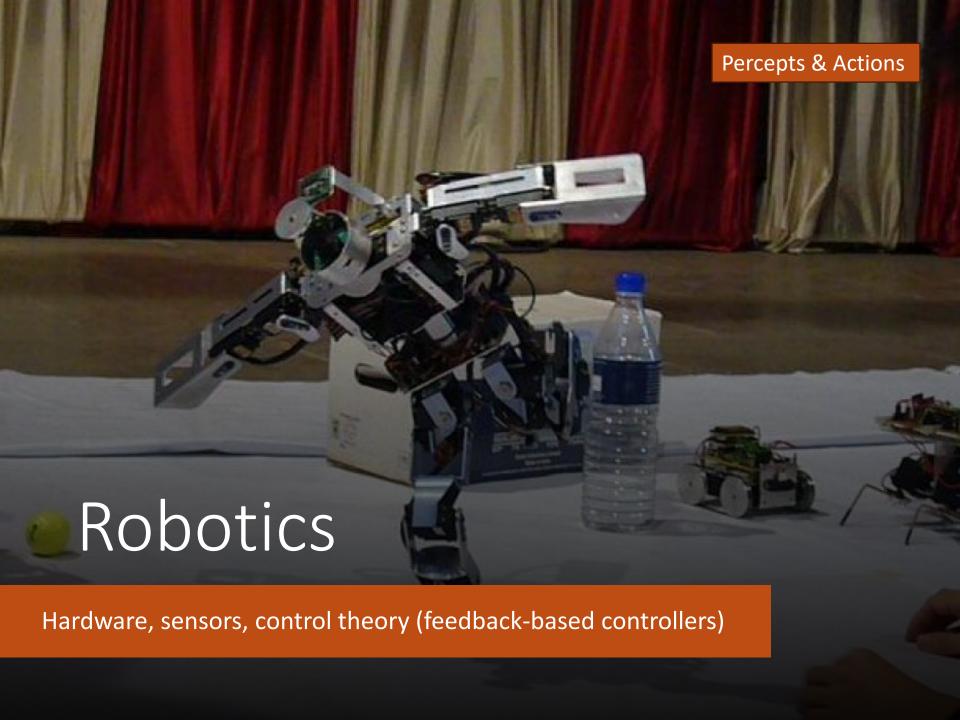


Source: Word Embeddings for PyTorch Text Classification Networks



## Computer Vision

- Object detection
- Event detection
- Activity recognition
- Video tracking
- Object recognition
- 3D pose estimation
- Uses Deep Convolutional Neural Networks





**Communication and Coordination** 

