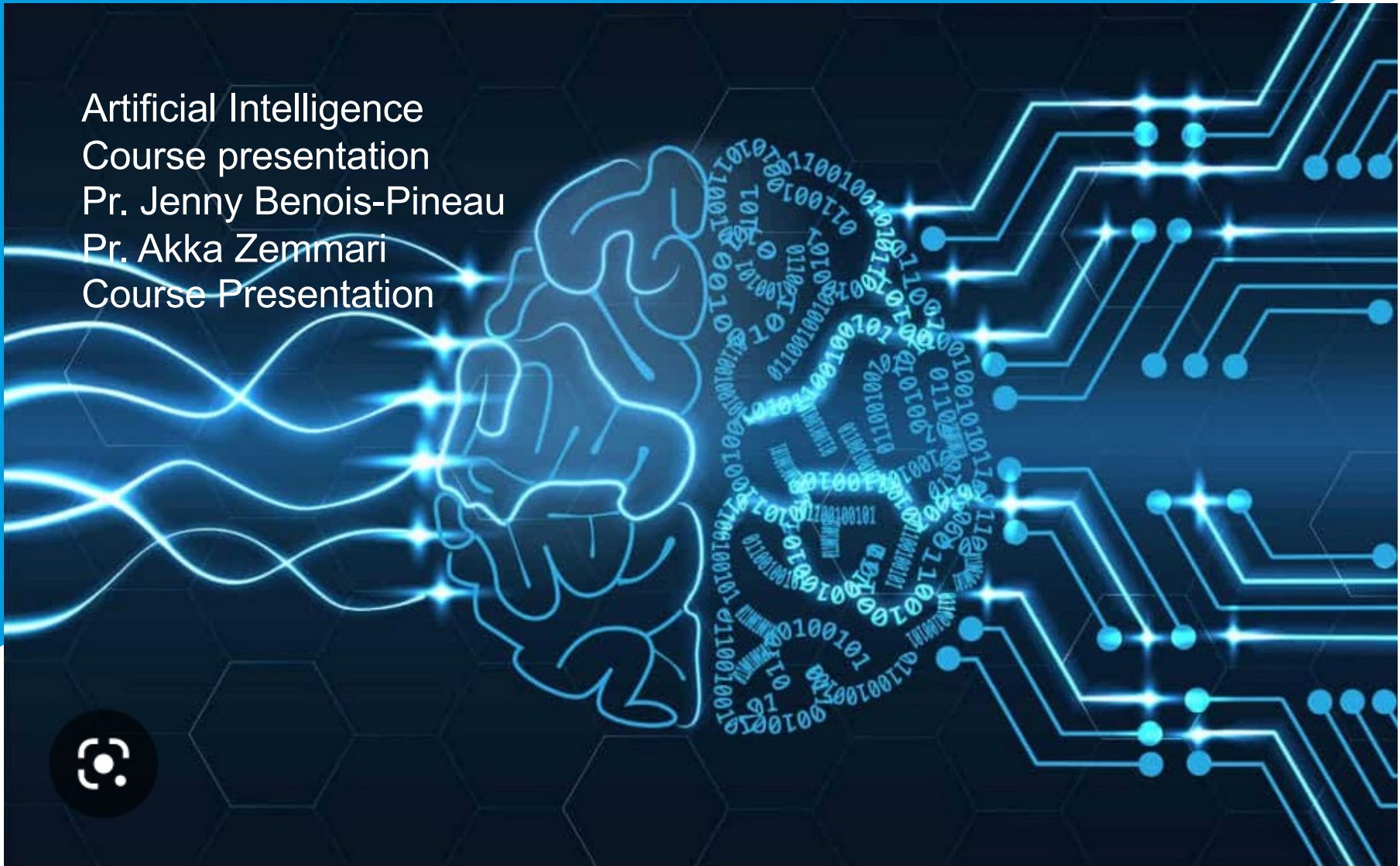
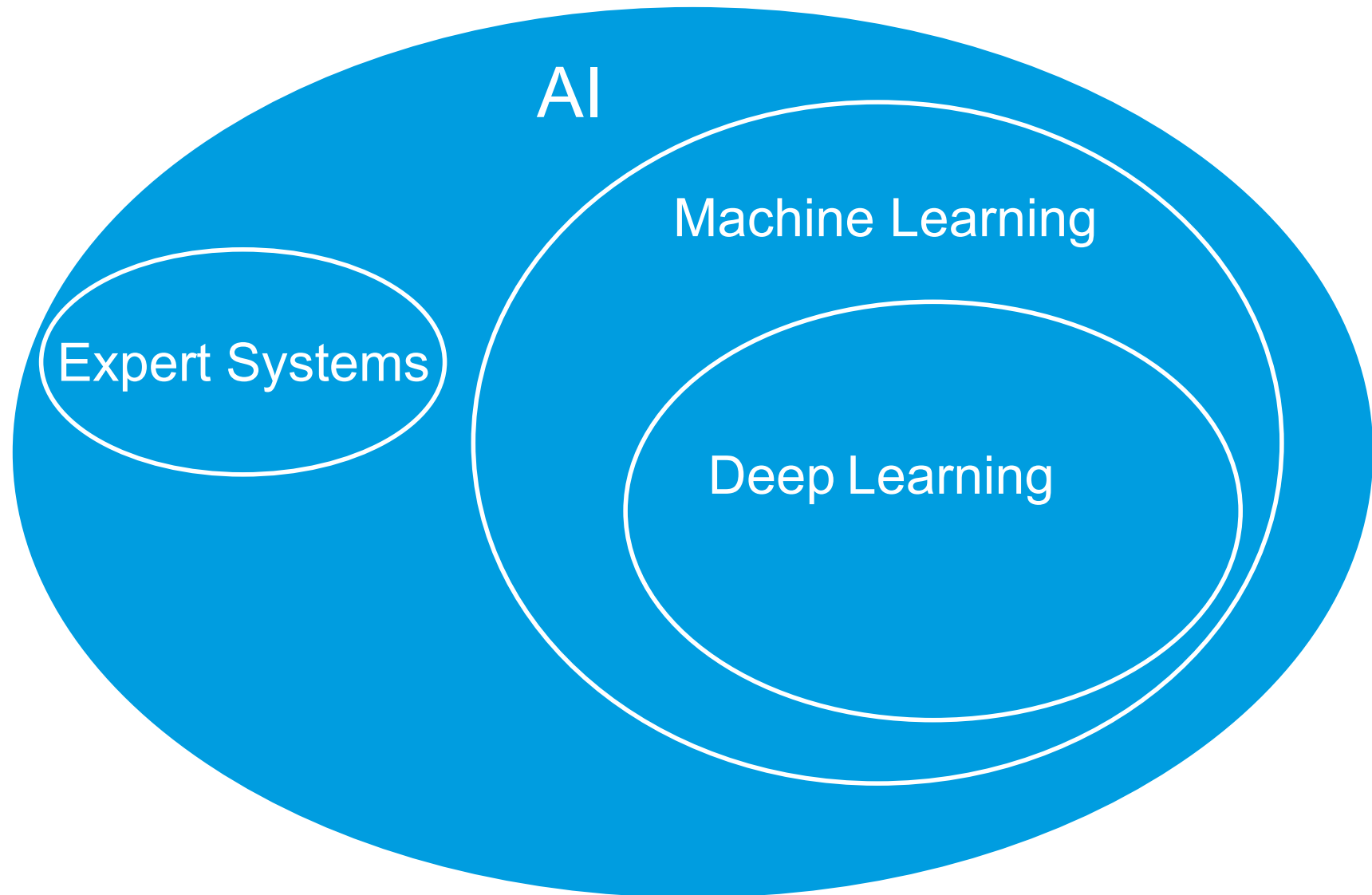


Artificial Intelligence
Course presentation
Pr. Jenny Benois-Pineau
Pr. Akka Zemhari
Course Presentation



AI today : shift of the paradigm



Summary

1. Introduction. Machine learning
2. Clustering : K-means HAG, DB_Scan
3. Supervised Learning, KNN
4. Decision Trees, Bayesian classification
5. Neural Networks
6. Deep Learning. Convolutional Neural Networks

What do you need to know : foundations of mathematics from A-levels and 1st year general course at the university
Vector space, matrix calculus and a bit of probability and statistics!

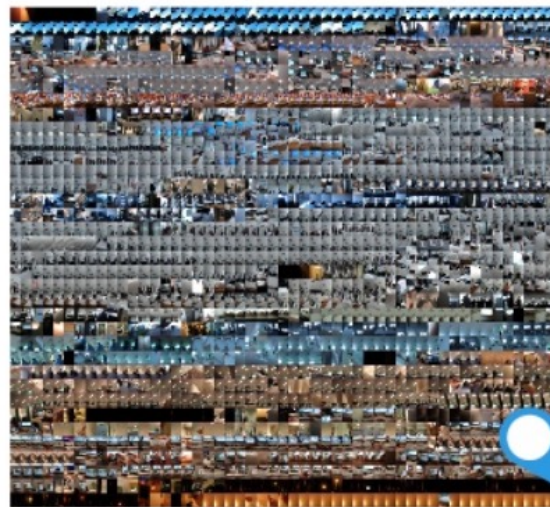
We will show you application examples and you will “look and feel” Artificial Intelligence

Application example(1)

→ Lifelogging (K. Gurin, A. Smeaton DCU)



Segmentation of raw data into units such as events or moments. These can be enriched automatically with metadata, increasing their value.



Events are analogous to our episodic memory

<http://www.slideshare.net/cgurrin/biohackers-summit-2015-lifelogging-a-new-era-of-personal-data>

14/11/2022



Clustering : K-means HAG, DB_Scan

→ <https://youtu.be/-loZHTlrURs>