Université de Nantes
2020/2021

M2 ATAL
SSLM

Using X5-GON to find things

- X5-GON is a European project of which Université de Nantes is partner.
- We have developed a series of AI powered tools allowing to access Open Educational Resources.
- We have built the following activity to be performed between September and November 2020.

1 Todo

- Find a video, an article, a pdf, related to one of the following questions and write a 2 page summary of the paper.
- You are allowed to use any search technique you want to find the material. But it should also be able to be findable through X5-Discovery.

Questions

- How do transducers work?
- In what sense does a recurrent neural network allow to do language modelling?
- An interesting and quite different from those given in class application of learning finite state automata is...
- What alternatives to finite state machines can we think of to do language modelling?
- Has state splitting been explored before?
- How does the Hankel matrix relate to learning automata?

2 Where do we find interesting repositories for grammatical inference?

- What the students are to give as a result :
- A 3 page pdf (latex preferred) in which

Work

1. They comment upon the question they have chosen
2. They explain how they found the item they are analysing
3. They analyse the item with regards to the material

3 Dates and grading

- The activity is launched on September 7.
- The students have to send in (via Moodle if possible) their reports by November 30th.
- Grades will take into account the originality of the question and of the chosen item. So there is a bonus if the student is on his own to have found a resource.

4 X5-GON OER ref

https://wp3.x5gon.org/moodle/mod/xfgon/discovery.php?id=21