Invitation

Hi! PARIS Reading Group

Edition 1: Transformers
Session 1/3: "Introduction to transformers"

Tuesday 19 October 2021, 14:00 to 15:30

Via Zoom Webinar [registration](#)

Confirmed Speakers

Charles Ollion, École polytechnique
Sylvain Le Corff, Télécom SudParis

Program
- Introduction to transformers: motivations & current uses (~15min presentation).
- Typical mathematical models for transformers (~20min).
- Diving into details: building blocks, important tricks, example code, & visualisation of typical transformers (~40min).

Papers
- Original Transformers paper: [Attention is all you need](#)
- One of the most used Masked Language Model Transformer: [BERT](#)
- An example of successful Transformer model applied to time-series forecasting: [Neurips2019Paper](#)

Notebook
We will showcase a Jupyter notebook in Python using Pytorch to show the basic building blocks of transformers, and how to use large pretrained architectures easily using the [Transformers open source library](#). The Jupyter Notebook will be made available, both locally or on Google Colab (no installation required).

Next sessions (TBC)
Session 2/3: "Transformers for time series"
Session 3/3: "A stochastic transformer to capture distributions and uncertainty: SMC transformers"

Registration
Please click [here](#) to register for the event using your professional email address to get your personal conference link. Please do not share your personalised link with others, it is unique to you. You will receive an email regarding your registration status.

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We look forward to seeing you connected.
Hi! PARIS team