UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II

PHD PROGRAM IN
INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

PHD PROGRAM IN INFORMATION AND TECHNOLOGY FOR HEALTH

Seminar announcement

Monday 10 June 2024, Time: 10:00 - 12:00
Room CL-T-1, Ground Floor, Building 2, DIETI - Via Claudio, 21 - NAPOLI

Prof. Tanmoy Chakraborty

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Introduction to Large Language Models: Evolution and the current state

Abstract: (up to 1000 char.) Large Language Models (LLMs) have transformed NLP with their remarkable In-context Learning (ICL) capabilities. Automated assistants based on LLMs are gaining popularity; however, adapting them to novel tasks is still challenging. While colossal models excel in zero-shot performance, their computational demands limit widespread use, and smaller language models struggle without context. However, the computational requirements of deploying such large-scale models counteract the practicality of their usage en masse. Relatively smaller LMs, on the other hand, suffer drastically in the absence of in-context examples. Hence, the evolution of Large Language Models will be discussed, also investigating open issues and challenges on their future development and application in real-world domain.

Seminar will be further delivered online (Team Code yznd8k1)

Lecturer short bio: *He completed his Ph.D as a Google India Ph.D. fellow in the Dept. of CSE, IIT Kharagpur, India in Sept, 2015. Afterwards, he spent around 1,5 years at University of Maryland as a postdoctoral researcher. His Ph.D. thesis has been recognized as the best Ph.D. thesis by Xerox Research India and IBM Research India. He has also received INAE doctoral level innovation student project award. He has been awarded prestigious Ramanujan Faculty Fellowship and DAAD Faculty Award. His primary research interests include Network Science, Data Mining, Natural Language Processing and Data-driven cybersecurity.*

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