TOWARDS AUGMENTED COGNITION

Alice Marascu

Nokia Bell Labs, Ireland

Technological advances are contributing like never before to the human innate desire for cognitive expansion. Understanding how we interact and communicate with our surroundings is crucial for pushing the boundaries of content assimilation. Neuroscience latest results open the door to understanding the human communication at more complex levels and more medical results are coming today to support a body holistic communication system. By modelling and monitoring hidden communication indictors, we aim to understand the cognitive best achievable performances. The large collections of big data and information available today at just 1-click away could become thus more cognitively "digestible".

Human cognition can be mainly expanded at three levels: flow of data to which the human body is exposed, internal cognitive model that is processing the data and retaining the gems, and, finally, the visible behaviors that are materializing the internal decisions. In this work, we will primarily focus on the first two levels and explore new achievable cognition insights by mixing neuroscience knowledge with computational models from the computer science domain.

BIOGRAPHY

Alice Marascu is a senior research scientist at Nokia Bell Labs, Ireland. Previously, she was a research scientist at IBM Research-Ireland, and held post-doctoral research roles at University of Trento-Italy, and INRIA Rennes Bretagne Atlantique-France. Her research spans natural language processing, large scale streaming data processing, large scale complex pattern recognition and mining, time series analysis. She has given multiple talks to industrial and academic audiences and published results in main conferences in the areas of big data, data mining, machine learning, query answering (VLDB, PVLDB, SIGMOD, Big Data Conference, etc.).

alice.marascu@nokia-bell-labs.com

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