Conferencia "Linguistic intelligence: computers vs. humans (the long and winding road)"

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Linguistic intelligence: computers vs. humans (the long and winding road)

Ruslan Mitkov

University of Wolverhampton

Abstract

Computers are ubiquitous – there are and used everywhere. But how good are computers at understanding and producing natural languages? In other words, what is the level of their linguistic intelligence? This presentation will examine the linguistic intelligence of the computers and will look at the challenges ahead….

I shall begin by a brief historical flashback. I shall plot the timeline of the linguistic intelligence of computers against that of humans. Natural Language Processing (NLP) advances in the last 20 years have made it possible for the linguistic intelligence of computers to increase significantly but they are still behind humans…

The presentation will explain why it is so difficult for computers to understand and in general, to process natural languages – it is a steep road, it is long and winding road for both computers and researchers. The talk will also briefly present well-established NLP techniques computers follow when 'learning' to speak our languages, including rule-based and knowledge-based methods initially and machine learning and even deep learning methods more recently, which are regarded as highly promising. A selection of Natural Language Processing applications will be outlined next.

I am not a clairvoyant, but at some of my plenary talks I have been asked to predict how far will computers go... At the end of my presentation in Jaén I shall share with you what I predict for the future and in general, what my vision is.

Ruslan Mitkov: short bio

Prof Dr Ruslan Mitkov has been working in Natural Language Processing (NLP), Computational Linguistics, Corpus Linguistics, Machine Translation, Translation Technology and related areas since the early 1980s. Whereas Prof Mitkov is best known for his seminal contributions to the areas of anaphora resolution and automatic generation of multiple-choice tests, his extensively cited research (more than 250 publications including 15 books, 35 journal articles and 36 book chapters) also covers topics such as machine translation, translation memory and translation technology in general, bilingual term extraction, automatic identification of cognates and false friends, natural language generation, automatic summarisation, computer-aided language processing, centering, evaluation, corpus annotation, NLP-driven corpus-based study of translation universals, text simplification, NLP for people with language disabilities and computational phraseology. Mitkov is author of the monograph Anaphora resolution (Longman) and Editor of the most successful Oxford University Press Handbook - The Oxford Handbook of Computational Linguistics. Current prestigious projects include his role as Executive Editor of the Journal of Natural Language Engineering published by Cambridge University Press and Editor-in-Chief of the Natural Language Processing book series of John Benjamins publishers. Dr Mitkov is also working on the forthcoming Oxford Dictionary of Computational Linguistics (Oxford University Press, co-authored with Patrick Hanks) and the forthcoming second, substantially revised edition of the Oxford Handbook of Computational Linguistics. Prof Mitkov is the coordinator of the first international (Erasmus Mundus) Master programme on Technology for Translation and Interpreting. He has been invited as a keynote speaker at a number of international conferences including conferences on translation and translation technology; he has acted as Programme Chair of various international conferences on Natural Language Processing (NLP), Machine Translation, Translation Technology (including the annual London conference ‘Translation and the Computer’), Translation Studies, Corpus Linguistics and Anaphora Resolution. Dr Mitkov is asked on a regular basis to review for leading international funding bodies and organisations and to act as a referee for applications for Professorships both in North America and Europe. Ruslan Mitkov is regularly asked to review for leading journals, publishers and conferences and serve as a member of Programme Committees or Editorial Boards. Prof Mitkov has been an external examiner of many doctoral theses and curricula in the UK and abroad, including Master’s programmes related to NLP, Translation and Translation Technology. Dr Mitkov has considerable external funding to his credit (more than ? 25,000,000) and is currently acting as Principal Investigator of several large projects, some of which are funded by UK research councils, by the EC as well as by companies and users from the UK and USA. Ruslan Mitkov received his MSc from the Humboldt University in Berlin, his PhD from the Technical University in Dresden and worked as a Research Professor at the Institute of Mathematics, Bulgarian Academy of Sciences, Sofia. Mitkov is Professor of Computational Linguistics and Language Engineering at the University of Wolverhampton which he joined in 1995 and where he set up the Research Group in Computational Linguistics. His Research Group has emerged as an internationally leading unit in applied Natural Language Processing and members of the group have won awards in different NLP/shared-task competitions. In addition to being Head of the Research Group in Computational Linguistics, Prof Mitkov is also Director of the Research Institute in Information and Language Processing. The Research Institute consists of the Research Group in Computational Linguistics and the Research Group in Statistical Cybermetrics, which is another top performer internationally. Ruslan Mitkov is Vice President of ASLING, an international Association for promoting Language Technology. Dr Mitkov is a Fellow of the Alexander von Humboldt Foundation, Germany and was invited as Distinguished Visiting Professor at the University of Franche-Comté in Besançon, France; he also serves as Vice-Chair for the prestigious EC funding programme ‘Future and Emerging Technologies’. In recognition of his outstanding professional/research achievements, Prof Mitkov was awarded the title of Doctor Honoris Causa at Plovdiv University in November 2011. At the end of October 2014 Dr Mitkov was also conferred Professor Honoris Causa at Veliko Tarnovo University.

Documentos relacionados

- Jaen October 2019_0.pdf
- R Mitkov short bio_0.pdf