



Marcello Federico

Human Language Translation - Machine Translation research

The Past, the Present, the Future of Spoken Language Translation Evaluation

Evaluation campaigns are the most successful modality for promoting the assessment of the state of the art of a field on a specific task. Within the field of machine translation, the *International Workshop on Spoken Language Translation (IWSLT)* is a yearly scientific workshop, associated with an open evaluation campaign on spoken language translation. The *IWSLT* campaign, which is the only one addressing speech translation, started in 2004 and will feature its 13th installment in 2016. Since its beginning, the campaign attracted around 70 different participating teams from all over the world. In my talk I will present the main characteristics of the tasks offered within *IWSLT*, as well as the evaluation framework adopted and the data made available to the research community. We also analyze and discuss the progress made by the systems along the years for the most addressed and long-standing tasks and will share ideas about new challenging data and interesting application scenarios to test the utility of spoken language translation systems in real tasks.

Marcello Federico heads the *Human Language Translation - Machine Translation research unit* at Fondazione Bruno Kessler, Trento (Italy). In addition, he is also Adjunct Professor at the *ICT Doctorate School of the University of Trento*. As director of the *HLT-MT unit*, he oversees the work of about 15 researchers and Ph.D. students. His research expertise is in statistical machine translation, spoken language translation, statistical language modeling, information retrieval, and speech recognition. In these areas, he has co-authored over 180 scientific papers, contributed in 20 international and national projects, and co-developed widely used software packages for machine translation and language modeling. He has served in the program committees of all major international conferences in the field of human language technology. Since 2004, he has been co-organizing the *International Workshop on Spoken Language Translation workshop series*. He has also been editor-in-chief and associate editor for refereed journals (*ACM Transactions on Audio, Speech, and Language Processing; Foundations and Trends in Information Retrieval*), and is currently senior editor for the journal *IEEE/ACM Transactions on Audio, Speech, and Language Processing*. He is a senior member of the *IEEE* and a member of the *ACM*.