

Arabic Language Technologies



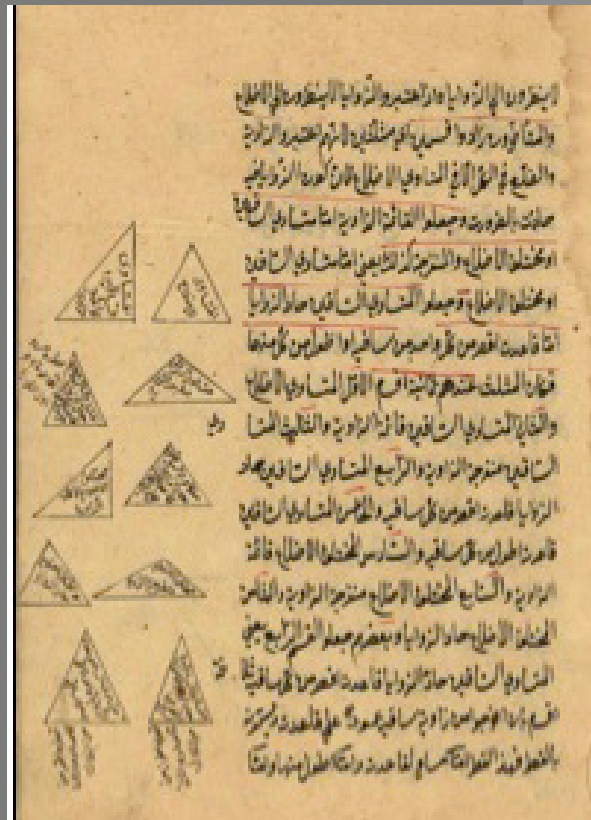
Qatar Computing Research Institute



Our Research

At Qatar Computing Research Institute we tackle large-scale computing challenges by conducting world-class applied research that will bring transformative change to citizens and society.

Ensuring that the Arabic language flourishes in the digital world is a primary focal area of our research. We are dedicated to promoting the Arabic language in the information age by conducting innovative research in Arabic language technologies. Some of our current research projects address the challenges related to lack of content and equally important, extracting that content, analyzing and transforming it.



Our Arabic language technologies research team is a recognized leader in the areas of search, information retrieval and analysis, multilingual language processing, and advanced machine translation. We collaborate closely with our global industry partners including Al Jazeera, Microsoft, Boeing and the Wikimedia Foundation, with local stakeholders including the Supreme Council of Education and the Qatar National Library, and with academic institutions

Current Projects

Our most current projects include: Broadcast News Transcription and Translation, Lecture and Meeting Translation, Optical Character Recognition, Doha City Browser, Tweet Mogaz, Arabic e-Book Reader, Assistive Language Learning Tutor, and Ethraa.



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- Multilingual Speech Processing
- Information Retrieval
- Question Answering
- Optical Character Recognition
- IT for Education
- ETHRAA: Enriching Arabic Content

The Arabic e-Book Reader, which provides Arabic support for the native Arabic language, as well as the Assistive Language Learning Tutor are examples of tools that will have an immediate impact on society and learning. Our team behind the Speech Recognition and Translation projects works on offline and online transcription, which in combination with a machine translation system, allows broadcast news, but also lectures distributed over the web to reach larger audiences. The Optical Character Recognition project aims to improve results for digitizing historic handwritten Arabic documents. In the Tweet Mogaz project several million Arabic tweets are collected per day, analyzed and summarized, to provide a platform for displaying the voice of the people.





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