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Mohammed Abu Shquier, Omer Abu Shqeer
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Abstract . Recently Machine Translation (MT) has become a testing ground for many ideas in artificial intelligence (AI) as well as linguistics. Word ordering plays an important role in the translation process between languages. This research is attempting to examine the implications of using verb subject object (VSO) and subject verb object (SVO) words order on the agreement requirements in MT. Approach: The main objective of this research is to develop a hybrid-based MT (EA-HBMT) to improve the quality of MT from English to Arabic. Transfer-based MT is used to obtain an intermediate representation that captures the "meaning" of the original sentence in order to generate the correct translation. Example based-technique is used as well to handle the irregular cases. Semantic analysis process is mainly conducted to detect the statements that require the use of SVO construction rather than VSO. Results: we have constructed an agreement and ordering tests suite; that has been used in testing different agreement and ordering features in four Arabic MT systems, they are, ALKAFI, GOOGLE and TARJIM SAKHR versus EA-HBMT. These examples have been used in exploring and evaluating the agreement and ordering problems throughout three experiments. In the first experiment we have classified the problems that cause that agreement and ordering into twelve and we compare between the four systems outputs with the original translation of the input text based on these twelve problems. In the second experiment we tested each statement separately, by comparing the particular on-line translation with the original human translation based on the number of the correct translated words in the target language. Conclusion: Based on the achieved results, we have managed to perform the Symantec analysis within Arabic source texts by using hybrid-based machine translation and also achieved reasonable improvements in translation quality over related approaches.
Keyword : MT, EA-HBMT, Agreement, ordering

Leila Pashaie Bonab, Mehdi Bahrami, Jaber Karimpour, Mohamdali Jamali
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Abstract . Cryptography is important part of a security plan system. So, if we have a secure cryptography in a system, we have an opportunely to have a secure system and make a system by stability of 99.9% on the network. In this paper we will review the Quantum Cryptography as base model in our idea and after that we'll extend it for use on the network for distributed machine. Therefore we will show that cluster of machine which use distributed quantum machine, how it works base on our idea and how we can have a secure machine.
Keyword : Quantum Cryptography ; Security Systems ; Distributed Systems


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