**Keynote Speaker Abstract**

**Towards the New Era of**

**Artificial Cognitive Systems**

* The first era of computing was essentially tabulating machines; the next one was the programmable computers. Many Organizations, research centers, academia, and hardware /software companies have just begun to scratch the surface of cognitive computing capabilities, as the third era of computing.
* Cognitive computing is the creation of self-learning systems that use data mining, pattern recognition and natural language processing (NLP) to mirror the way the human brain works.
* The progresses of building pioneer products for cognitive systems that can understand language and answering questions will be presented. Cognitive approach will modify and replace many concepts in computer science and information technology.
* The purpose of cognitive computing is to create computing systems that can solve complicated problems without constant human oversight. More details for all those subjects and others will be highlighted.