

# A Glimpse of Computing Research at AUC

Sherif G. Aly

Associate Professor / Associate Chairman AUC
Senior Visiting Scientist / Technology Innovation Center























#### THE MOBILE AND PERVASIVE COMPUTING **RESEARCH GROUP**

#### The Mobile and Pervasive Computing Research Group

#### Researchers











Truly Innovating ...

#### Have a new trailblazing idea? CONTACT



THE MOST PROFOUND TECHNOLOGIES ARE THOSE THAT DISAPPEAR



Maged Elaasar, Ph.D. ABD IBM Canada





Mohamed Fotouh M.Sc. Candidate





Ahmed Sabry M.Sc. Candidate



M.Sc. Candidate



Amr Al Jarhi MComp



M.Sc. Candidate



Hend Arafa MComp



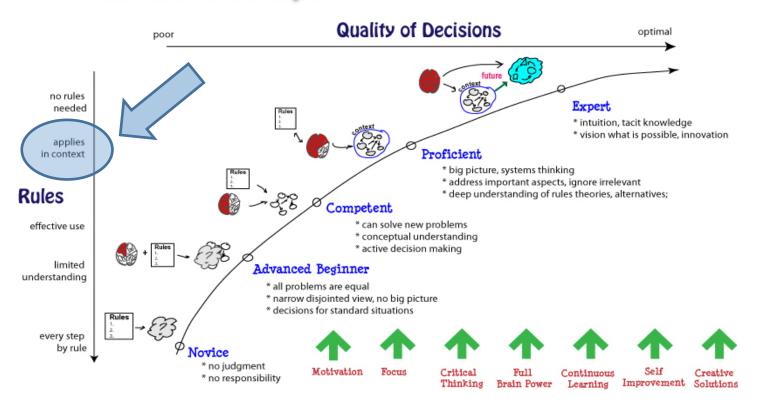
# THE MOST PROFOUND TECHNOLOGIES ARE THOSE THAT DISAPPEAR

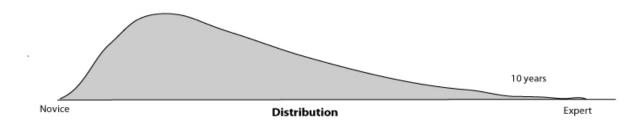
Mark Weiser

- They weave themselves into the fabric of everyday life until they are indistinguishable from it.
- The state of the art is perhaps analogous to the period when scribes had to know as much about making ink or baking clay as they did about writing.



### **Genesis of The Expert**





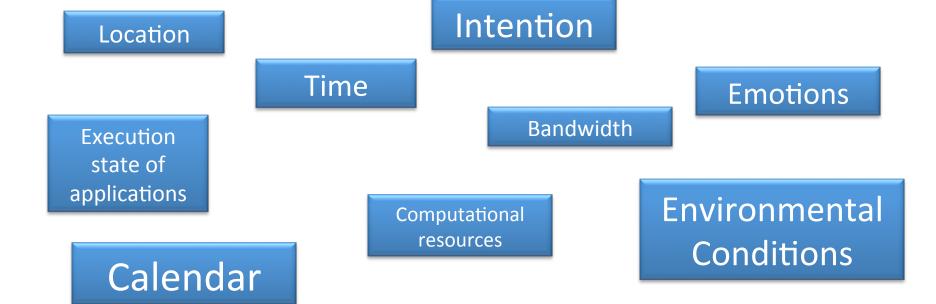
# awareness circumstances environment event idea Information locationmeaning particular passage process science setting situation something term USET words

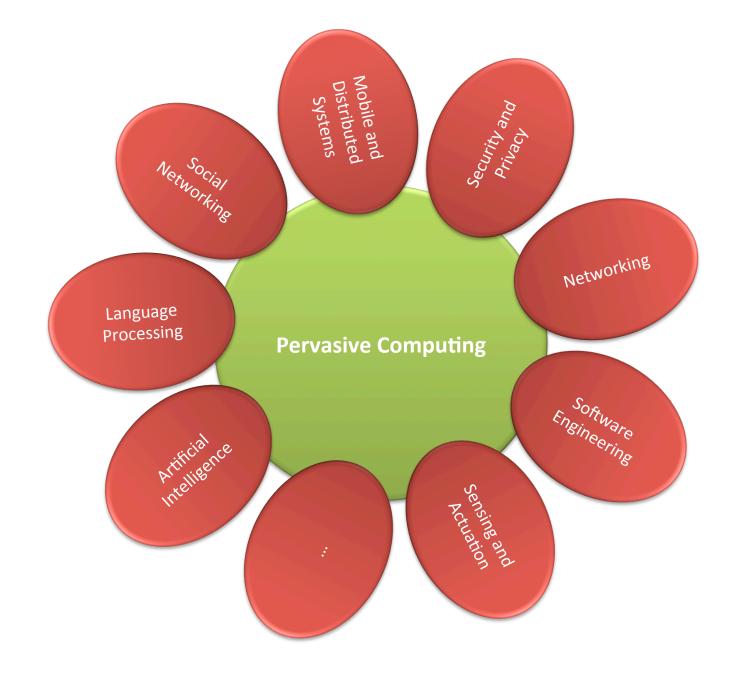
Tag cloud of top ten search results from Google relevant to the word "Context" with occurrence over five times

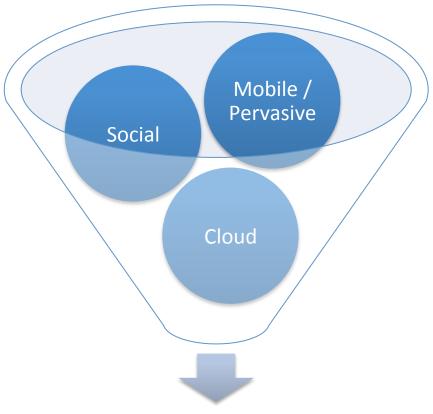
## CONTEXT ...

"That which surrounds, and gives meaning to, something else"

"Any information that can be used to characterize the situation of an entity (person place or object), and can be relevant to an application"







New Hybrid and Innovative Systems?



# Our Research

- Mobile Contextual Searching (Partially funded by Google's Research Awards Program).
  - Understanding mobile context that influences searching.
  - Gathering mobile user context.
  - Influencing mobile based web searching.
- Social Pervasive Systems (In Collaboration with Harras from CMU-Qatar).
- Context elicitation from social networking.
  - Mood extraction (happy, sad, anxious, angry).
  - Could be subsequently used to influence mobile applications.

# Our Research

- Context Inference for Situational Identification.
- Automated Design Generation for Pervasive Systems (Collaborator from IBM Canada).
- Context Aware Business Processes.
- Context Aware Video Streaming.
- Summarization of social networking content for delivery to mobile devices (previous work funded by Cairo Microsoft Innovation Center).

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Collaborations with





**DISCUSSION QUESTIONS ...** 

SGAMAL@AUCEGYPT.EDU