NSF United-States/Middle-East Workshop Trustworthiness in Emerging Distributed Systems and Networks

Koc University, Istanbul, Turkey June 4-6, 2012

Cairo University – Computer Engineering Samir I. Shaheen

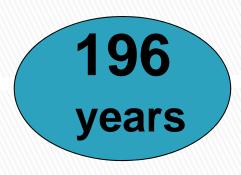
Cairo University
Faculty of Engineering
Computer Engineering Dept.

Samir I. Shaheen June 2012

Faculty of Engineering, Cairo University (CUFE)

Founded in 1816 At Cairo Citadel





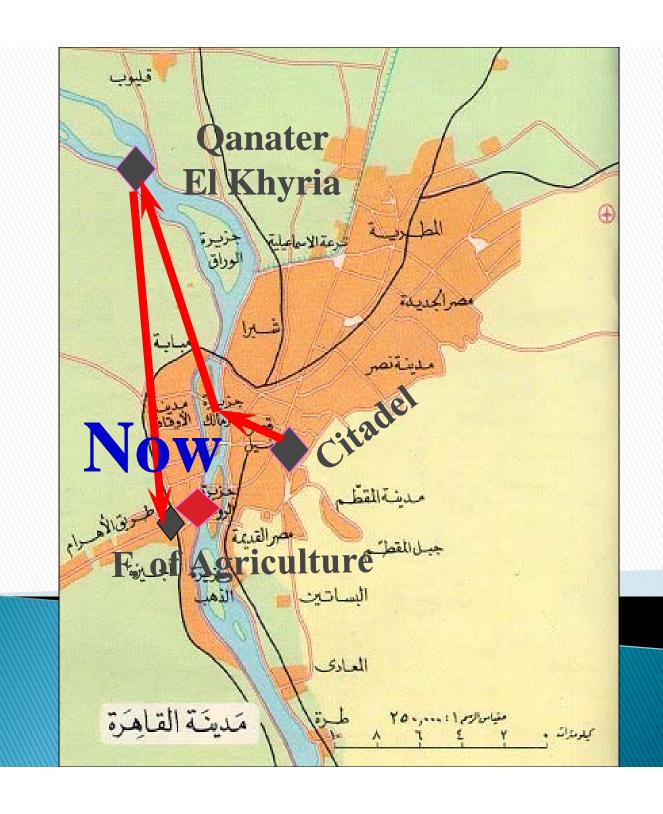
First # Students 5
Present # Students 15000
Undergraduate 12000
MSC - Ph.D 2500







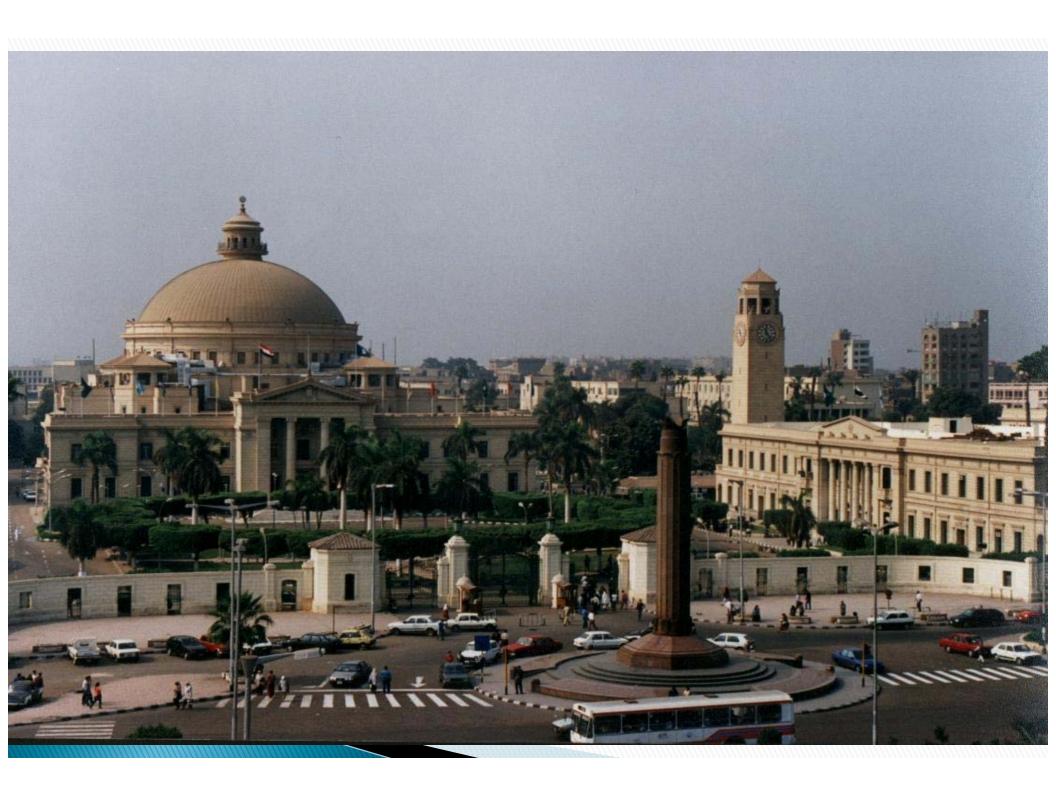




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Faculty of Engineering, Cairo University Main Campus 1905





Started with 4 Departments

- Civil
- Architecture
- Mechanical
- Electrical

Addition since then

- 1940 Chemical Engineering
- 1943 Mining and Petroleum
- 1954 Aeronautical Engineering
- 1960 Metallurgical Engineering
- 1982 Biomedical Engineering
- 1992 Computer Engineering
- 2006 Introduced new inter-disciplinary
 Programs based on Credit Hour System.

Report on two activities in Egypt:

- Academy of Science and Technology committee on Security and Social Networks.(Road Maps for Research Projects).
- 2. Examples of research activities in Computer Engineering Department, Cairo University.

Academy of Science and Technology Committee on Communication and Computer, Information Systems:

- 1. Social Media Privacy and Security.
- 2. Social Aspects of Social Media.
- 3. Sentiment and Text Mining and Analysis.
- 4. Mobile and Wireless networks.
- 5. Cloud Computing

Social Media Privacy and Security

- Analysis of different privacy and security issues
- Secure architectures and trusted networks
- Other privacy-related areas (reliability, software tools, ...etc)

Social Aspects of Social Media

- Social influence (Analysis, games effect, behavior evolution, ...etc)
- Community detection (Formation, classification, link prediction, ...etc)
- Social tagging (Recommendation systems, Profile building, ...etc)

Sentiment and Text Mining Analysis:

- Text and blogs mining and analysis
- Sentiment analysis
- Other mining-related areas (Mining tools, multimedia reviewers mining, ...etc)

Mobile and Wireless networks:

- Collaborative and distributed business systems (e.g. Online team formation).
- Social media services in (Educational, Medicine and Society).

Cloud Computing:

- Computational Power: Provisioning, virtualization, elasticity/scalability, and accounting.
- Storage: Cloud Storage delivers virtualized storage over a network on demand with a requested quality of service (QoS).
- Security: Security models (targeting confidentiality, integrity, and availability), privacy, access control, identity protection, authentication.
- Cloud Engineering: Architectures, modeling, Interoperability/standardization, APIs, Programming models, verification and validation.

Computer Engineering, Cairo University -1:

- Using Computational Intelligence for Discovering Dominant Scenarios in Web Log files (via User Profiles).
- Data Mining Techniques for Fraud Detection in Telecommunication .
- Real-Time Decision Tree for Intrusion Detection.

Computer Engineering, Cairo University -2:

- Trust-Based Cross-Layer Model for Wireless Sensor Networks.
- Sentiment Analysis in Opinion Mining Tasks.
- Arbitrary Identity Blinding for Enhancing Transferable Electronic Cash Characteristics (Electronic Money/Privacy).
- Mobile Agents and Network Protection against DDoS Attacks.

Computer Engineering, Cairo University -3:

Projects with the EU:

- Cairo University Giza- Egypt.
- RWTH Aachen Germany.
- □ Telcom Every Every France.
- How students in high school select their studies in the University level, and,
- Use Social / Academic Data Mining to discover how the social/Economical factors affects their performance in higher education.

For more information Pls Visit:

www.Cufe.edu.eg

Contact: sshaheen@cufe.edu.eg

Thank You