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## Mostafa S. Ibrahim

**Research Interests** Interested in **Computer Vision** field, in several problems such as

- Activity Recognition, Object Tracking
- Object Recognition, Image Segmentation / Image Retrieval

### Education

**2015-Present** **PhD** - School of Computing Science – Simon Fraser University

- Under Supervision of A.Prof [Greg Mori](#).
- Working in **Computer Vision** field in **Human Activity Recognition** area (e.g. sports analysis)

**2010-2012** **M.Sc.** in Computer Science - Cairo University.

**2004-2008** **B.Sc.** in Computer Science - Cairo University - **GPA** 3.83 / 4 (3rd on class)

### Research Experience

#### **Senior Computer Vision Engineer, Aug 2014 - July 2015 - Heruolabs**

- Worked in Object Proposals, Object Tracking, and development in Heruolabs platform

#### **M.Sc. studies, Jan 2010 - Dec 2012, Cairo University– Egypt**

- **Computer Vision Field / Object Proposals problem** in natural scenes..
  - In this problem, instead of evaluating every location in an image to find an object (e.g. human / car), we identify small subset of locations where objects probably exist.
- Contribution: Using superpixels to determine the probable locations for objects of interest.
- Supervisor Prof [Amr Badr](#). Programming Languages: C++.

#### **Research Assistant, Jun 2010 – March 2011, Cairo Microsoft Innovation Center – Egypt**

- **Computer Vision Field / Semantic Image Segmentation problem.**
  - In this problem, we identify for every pixel its corresponding category (e.g. sky / car)
- Contribution: unary and pairwise potentials in a discrete energy function based on superpixels
- Supervisor: Dr [Motaz El Saban](#). Programming Languages: C++ / Matlab

### Research Publications

- Mostafa S. Ibrahim, Amr A. Badr, Mostafa R. Abdallah and Ibrahim F. Eissa. *Bounding Box Object Localization Based On Image Superpixelization*, in **Procedia CS 13**.
- Mostafa S. Ibrahim and Motaz A. El Saban. *Higher order potentials with superpixel neighbourhood (hsn) for semantic image segmentation*, in **ICIP 2011**.

## Software Development Experience

### **C++ Software Engineer**, July 2011– July 2014, NTP– Egypt

- Working in a data storage software named NTP QFS
- Control the explosion of file data and the accompanying costs.
- Manage file data use across the enterprise, even across multiple platforms and storage types.

### **Java Software Engineer**, Nov 2008 – May 2010, FAWRY – Egypt

- Working in a banking software named Fawry EBPP
- It is a bill presentment and payment network to handle your bills through the various electronic channels available at banks; including ATMs, the internet, mobile phones and point of sales.

## Teaching

### **Teaching Assistant**, Sep 2008 – Dec 2014, Faculty of Computers and Information

- Taught courses such as: Programming, Software Engineering, Data Structures and Algorithms, Neural Network, Genetic Programming

## Others

### **Programming Contests**

- **Chief Judge & Problem Setter** in both Egyptian, Jordanian National ACM ICPC in 2012.
- **Judge & Problem Setter** in Arabian Regional ACM ICPC 2013
- **Coaching** in 2014 for an Egyptian team
- 2011 ACM ICPC **World Finalist** in Orlando, Florida - USA.
- 2<sup>nd</sup> rank 2009 and 2<sup>nd</sup> rank 2010 in Arab Collegiate Programming Contest.
- 2<sup>nd</sup> rank 2006, 5<sup>th</sup> rank 2008 and 1<sup>st</sup> rank 2009 in Egyptian National ACM ICPC.
- 8<sup>th</sup> rank in 2005 Egypt Olympiad in Informatics (EOI), *Silver Medal*.

### **Activities**

- Attending Computer Vision Conferences
- Organizing Arabic Computer Vision [Webinar Series](#).
- Conducted Computer Vision Study Group in Cairo University in 2012-2013
- Co-organized Machine Learning Day in Cairo University in 2011.
- Have a [YouTube Channel](#) for describing **Algorithms** for competitions.
  - 120+ videos - 5k subscribers - 170k views.

### **Personal Details**

- **Nationality**: Egyptian
- **Birth Date**: 16th of August, 1987
- **Language**: Arabic (Native), English (Very Good).