

# R&D Engineer

## Ahmed GAMAL ELDIN

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## Field of experience

Computer vision, machine learning, stochastic models, image processing, optimization

## Education

2011: PhD in Automatic control, Image and Signal processing, INRIA Sophia Antipolis Méditerranée, France (Ariana team), and University of Nice Sophia-Antipolis, France. Thesis title: "Point Process and Graph cut applied to 2D and 3D object extraction".

2008: Master in Images, Sciences and Information Technology, ENSPS, University of Strasbourg, France.

2007: Master in Communications & Electronics, AAST, Egypt. Thesis title: "Image segmentation using Wavelet domain Hidden Markov Tree". Grade excellent

2002: BSc in Communications & Electronics, Faculty of Engineering, Benha University, Egypt. Graduation project "Speech enhancement using adaptive digital filter".

## Professional experience

2012–2013: Postdoc at LEAR team, INRIA Rhone Alpes, France.

2005–2007: Teaching assistant, French University in Egypt, faculty of Engineering.

2004–2005: Teaching assistant, French University in Egypt, faculty of Management and Information Systems.

Teaching: C, C++, computer architectures, algorithms and data structures, computer networks, operating systems, signal processing, logic circuits, electronic measurements. Around 550 hours of teaching, the total for the three years (2004–2007).

## Courses

2012: Summer school, "Visual Recognition and Machine Learning", INRIA Rhone Alpes, France.

2011: Summer school, "Towards petaflop numerical simulation on hybrid parallel architectures", INRIA Sophia Antipolis, France.

2010: Summer school, ICVSS, "Registration and Video Analysis", Sicily, Italy.

**2009:** Summer school, "Stochastic geometry, spatial statistics and random field", University of Ulm, Austria.

**2004:** **Certificate** of Unix system administrator.

#### Internships:

**2008:** Auscultation signal processing using Fuzzy Markov models. (supervisors: C. Collet, F. Salzenstein & S. LeCam), University of Strasbourg, France.

**2007:** Fuzzy Markov chain with three hard classes for polarimetric skin image classification. (supervisors: C. Collet, F. Salzenstein & J. Zallat), University of Strasbourg, France.

**1999–2003:** Alcatel, National Institute of de Telecommunication, NCR & Maadi Satellite Station, for a duration varying from 2 to 8 weeks, Egypt.

## Awards

2010: Best Paper, International Conference on Signal-Image Technology and Internet-Based Systems (SITIS), Kuala Lumpur, Malaysia.

## Skills

Proficient In: C, C++, Matlab; Unix, Linux, Windows.

Acquainted: Java, Python; Hadoop, SQL, XML, HTML; R; Mac; OpenGL, Intel tbb, Cuda.

Language: English (fluent), French (fluent), German (just started) and Arabic (fluent).

## Other information

Sports : Running, hiking, swimming, karate (blue belt). In 2002, 5<sup>th</sup> in 4x100m athletic, at the National championship, Egypt.

## References

Provided upon request