Ahmed Nady

Curriculum Vitae

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Research Interests

Computer Vision (Recognition, Detection and Classification Problems)
Machine Learning/Pattern Recognition

Education

2014–2018 **MSc in Computer Science (Computer Vision)**, *Helwan University*, Cairo, Egypt.
Thesis Topic: Real–Time Abnormal Behavior Detection in Ubiquitous Environment
Advisors: Dr.Amal Elsayed, Dr. Ayman Ezzat
Ranked first among all Masters students of Computer Science Department in 2014

2008–2012 **BSc in Computer Science**, *Helwan University*, Cairo, Egypt.
Ranked first among all of the university computer science students in year 2012

Awards and Honors

2012 **Shield of excellence** , Syndicate of Scientific Professions 1st *Rank, Achieving the highest GPA in the class*

Employment

2014 – **Helwan University**, *Cairo*, Egypt.
Octobar 2018 Teaching Assistant, Department of computer science

Experience

Vocational

September **Computer vision researcher**, *Sawa Sports Analytics company*, Cairo.
2018 – Work aimed to develop a solution to extract the statistics that used for evaluating the player
present performance.
Responsibilities:
- players detection and tracking;
- ball detection and tracking
- event recognition .

September **C++, Image Processing Software Engineer**, *Farminal company*, Cairo.
2014 – April Work aimed to develop a solution to detect Mastitis (Udder Inflammation) in dairy cows.
2015 Responsibilities:
- Working on Thermal Images;
- Segmentation of Udder Region;
- Early detection of mastitis using time series analysis.

June 2014 --– September 2014	**Research Assistant**, *Development of interactive 3D imaging system for hepatic angiography Project* . Work focused on developing Interaction System that enables doctor to perform gestures using fingertips (fingertips detection, Tracking and gesture recognition based on fingertips trajectory) and control 3D Model in ImageJ using Sphinx (speech recognition library)

Miscellaneous

Jan 2016–Aug 2016	**Software Engineer**, *Open Minds CIT*, Cairo. Work aimed to :

- Maintain and improve the performance of Vehicle Access Control System.
- Design and Develop Traffic Monitoring System
- Develop Network Monitoring App that uses SNMP Protocol to query devices status and then send an alarm to SCADA Operator if it is down
- Preparation of user manuals

Teaching Experiences

Spring 2018	**Teaching Assistant**, Algorithm Course. Pattern Recognition Course.
Fall 2018	**Teaching Assistant**, Artificial Intelligence Course. Programming Language Course
Spring 2017	**Teaching Assistant**, Algorithm Course.
Fall 2017	**Teaching Assistant**, Artificial Intelligence Course.
Spring 2016	**Teaching Assistant**, Algorithm Course.
Spring 2015	**Teaching Assistant**, Algorithm Course, Image Processing Course
Fall 2015	**Teaching Assistant**, Software Engineering Course. Multimedia Course.
Spring 2014	**Teaching Assistant**, Human Computer Interaction Course Computer Graphics Course.

Publications

2018	**A. Nady**, et.al, "Real-time Motion Detection Based on the Temporal Mean Filter Using GPU for Video Surveillance", SUBMITTED TO International Journal of Computational Vision and Robotics..
2018	**A. Nady**, A. Atia, A. E. Aboutabl, "Real-Time Abnormal Event Detection in Crowded Scenes", Journal of Theoretical and Applied Information Technology. 96(18):6064-6075, September2018.

Invited Talks

December 2016	Frontiers in imaging science and related technologies : talks on **Motion Detection Based on the Temporal Mean Filter Using GPU**.
December 2014	Development of interactive 3D imaging system for hepatic angiography : talks on **Interaction over the nearby surface from the patient bed using fingertips**.

Languages

Arabic	Mother Tongue
English	very good

Computer skills

Programming Langauages	C/C++, Java, Matlab, Python, CUDA C, OpenGL, OpenCV	Type Setting	Latex, Microsoft Office
Familiar With	C#, Prolog, OpenCL	Operating System	Linux (Ubuntu), Microsoft Windows
Web Programming	HTML, J2EE, JavaScript	IDE	Microsoft Visual Studio, Netbeans, Spyder

References

Dr. Ayman Ezzat (Master Advisor)
Assistant Professor at Faculty of computers and Information, Helwan University
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Assoc.Prof. Amal Elsayed (Master Advisor)
Associate Professor of Computer Science at Faculty of computers and Information, Helwan University
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