

Dr. Nahed H. Solouma

Professor and Department head

Personal Data:

Nationality | Egyptian
Date of Hire | April, 20, 2017
Date Rank Obtained | March, 28, 2013
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Biomedical Engineering	Biophotonics and imaging	Cairo university	Cairo, Egypt	Oct. 2001
Masters (M.Sc.)	Biomedical Engineering	Ai in medicine	Cairo university	Cairo, Egypt	June. 1996
Bachelor (B.Sc.)	Biomedical Engineering	BME	Cairo university	Cairo, Egypt	July 1990

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Development of an automated system for retinal tracking and photocoagulation
Master	Expert system in orthopedial sonography

Experiences:

Title of Job	Address of Work	Country	Date	
Professor	College of engineering, King Faisal University	Saudi Arabia	From	20/4/2017
			To	current
Professor	College of engineering, King Abdulaziz University	Saudi Arabia	From	1/2/2014
			To	1/7/2016
Professor	NILE, Cairo University	Cairo, Egypt	From	1/3/2013
			To	31/1/2014
Research associate	Imperial college	London, UK	From	1/7/2007
			To	31/8/2008
Associate professor	NILES, Cairo University	Cairo, Egypt	From	28/5/2007
			To	28/2/2013
Assistant professor	NILES, Cairo University	Cairo, Egypt	From	1/11/2001
			To	27/2/2013

Research Interests:

1. Biophotonics
2. Medical imaging
3. Medical data processing

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Omnia Hamdy and Nahed H. Solouma	Distant-detector versus integrating sphere measurements for estimating tissue optical parameters: A comparative experimental study	OPTIK, MDPI September 2021	Article
2	Omnia Hamdy, Sadeq S. Alsharafi, Mahmoud F. Hassan, Amr Eldib and Nahed H. Solouma	A Multi-Spot Laser System for Retinal Disorders Treatment: Experimental Study	OPTIK, MDPI September 2019	Article
3	Omnia Hamdy, Mahmoud Fathy, Tareq Alsaeed, Jala Alazab and Nahed Solouma	A Method for Medical Diagnosis Based on Optical Fluence Rate Distribution at Tissue Surface	Materials, MDPI September 2017	Article
4	Omnia Hamdy, Mahmoud Fathy, Tareq Alsaeed, Jala Alazab and Nahed Solouma	Estimation of optical parameters and fluence rate distribution in biological tissues via a single integrating sphere optical setup	OPTIK, MDPI September 2017	Article
5	Noura Negm, Mahmoud Fathy, Abou Bakr Youssef and Nahed Solouma	Aberration Correction of Microscopic Images Through the Use of Adaptive Optics	Journal of medical imaging and health informatics, 2017	Article
6	Nagwan M Abdel Samee, Nahed H Solouma, Yasser M Kadah	Detection of Biomarkers for Hepatocellular Carcinoma using a hybrid univariate Gene Selection Methods	Theoretical Biology and Medical Modeling, 2012	Article
7	Doaa Youssef and Nahed H. Solouma	Accurate Detection of Blood Vessels Improves the Detection of Exudates in Color Fundus Images	International Journal of Computer Methods and Programs in Biomedicine, 2012	Article
8	Fadhli M Alakwaa1, Nahed H Solouma and Yasser M Kadah	Construction of Gene Regulatory Networks using biclustering and Bayesian networks	Theoretical Biology and Medical Modeling, 2011	Article
9	Ahmed A. Hameed Sayed, Nahed H. Solouma, Amal A. El-Berry, and Yasser M. Kadah	Finite element models for computer simulation of intrastromal photorefractive keratectomy	Journal of Mechanics in Medicine and Biology, 2011	Article
10	Khaled S Ahmed, Nahed H Saloma, Yasser M Kadah	Improving the prediction of yeast protein function using weighted protein-protein interactions	Theoretical Biology and Medical Modeling, 2011	Article
11	Nahed H. Solouma, A. B. Youssef, Y. A. Badr, Y. M. Kadah	A new real-Time Retinal Tracking System for Image-Guided Laser Treatment	IEEE Transaction on Biomedical Engineering, 2002	Article

Language Proficiency:

1. Arabic, native
2. English, Advanced