



# Elhusain Saad

## Curriculum Vitae

### Personal Information

Name: Elhusain Salem Saad.  
Data of birth: December 29/1978.  
Data of birth: Misurata, Libya.  
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### Education

2014 **PhD**, *Univesity of Dayton, Dayton,OH USA, GPA – 3.94.*  
2007 **Masters of Science**, *Almergeb University, Khoms, Libya., GPA – 3.59.*  
2001 **Bachelor of Science**, *Higher Institute of Industry, Misurata, Libya, GPA – 3.63.*

### Doctoral Dissertation

Title *Defocus Blur-Invariant Scale-Space Feature Extractions.*  
Supervisors Professor Keigo Hirakawa.  
Description Proposed image feature-based correspondence technique that is invariant to defocus blur, zoom, rotation, and lighting. Applications include blur-invariant tracking, recognition, stitching, etc.

### Masters Thesis

Title *Enhancing TCP Performance over Heterogeneous Networks.*  
Supervisors Professor Jamal Elberglli & Associate Professor Majdi A. Shibani.  
Description Proposed modified TCP (internet protocol) that can be used with integrated networks (wire and wireless).

### Bachelor Project

Title *Gray Image Compression using Differential Pulse Code Modulation (DPCM).*  
Supervisors Professor Salah Ameer.  
Description Proposed gray scale image compression using DPCM with linear prediction.

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## Employment

### Teching

2008–2011 **Misurata University**, Undergraduate: *Engineering Mathematics, Mathematics-4, Maintenance of Communication Devices, Communication Theory-I, Communication Theory-II, Information Theory and Coding, Antenna and Wave Propagation, Computer Programming, Electrical Circuit Theory, Communications Lab, Radio and TV Lab, Electrical and Electronic Lab. Postgraduate Courses: Advanced Digital Communication.*

### Extra Graduate Courses

- 2007 *Next Generation Network.*
- 2009 *Optical Communications.*
- 2010 *Radio Resource Management.*

### Leadership

- 2009–2010 Member of Quality Assurance Committee, Faculty of Engineering, Misurata University, Libya.
- 2009–2010 Member of the Commission who put the syllabus of courses in my Department and Higher Institute of Industry, Libya.
- 2009–2010 Member of preparation of The Fifth Engineering day (workshop day), Misurata- Libya.
- 2018–now I am supervisor for group of student at Misurata University, Misurata- Libya. the group works with medical doctors at Misurata Cancer Center to develop computer system helps doctor to early detect cancers and follow up the success of treatment. The program provides the free servious to patients

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## Publications

- [1]- Elhusain S. Saad, Fituri H.Belgasem, *Compression Of Gray Scale Image In Spatial and Frequency Domain* , *Libyan Arab International Conference on Electrical and Electronic Engineering, March 2006, Tripoli, Libya.*
- [2]- Elhusain Saad, Jamal Elbergali, and Majdi Ashibani, *Libyan Arab International Conference on Electrical and Electronic Engineering, March 2006, Tripoli, Libya.*
- [3]- E. Saad, J. Elbergali, and M. Ashibani, *Enhancing TCP Performance over Heterogeneous Networks, South African Telecommunications Network & Applications SATNAC2006, Stellenbouch, South Africa, September 2006.*
- [4]- Abdulla A. Abouda , Kadija ambes, Elhusain S. Saad, *Estimation of The Entropy of Written Arabic Text Based on Statistics from The Holly Qouran* , *Libyan Arab International Conference on Electrical and Electronic Engineering, October 2010, Tripoli, Libya .*
- [5]- Elhusain Saad, Keigo Hirakawa, *Defocus Blur Invariant Image Feature Detection* , *IEEE Transactions on Image Processing on 2016.*
- [6]-Saad, Elhusain and Hirakawa, Keigo, *Improving SURF Interest Point Detection For Defocus Blur Robustness* , *Image Processing, IEEE International Conference on 2014 .*
- [7]-Saad, Elhusain and Hirakawa, Keigo, *INTERNET AS DICTIONARY FOR IMAGE COMPRESSION* , *Image Processing, AJCITA on 2016 .*
- [8]-Saad, Elhusain, *Improving Matching of Feature Descriptors Using Statistics of Detected Features* , *Image Processing, LICEET 2018 .*
- [9]-Saad, Elhusain, *SPEED UP DEFOCUSE BLUR INVARIANT-SIFT DESCRIPTOR FOR BLURRY IMAGES* , *Image Processing, AJCITA on 2018.*
- [10]-Saad, Elhusain and Hirakawa, Keigo, *Improved photometric acceptance testing in image feature extraction tasks* , *Image Processing, Journal of Electronic Imaging on 2020.*
- [11]-Saad, Elhusain, *ENHANCING COLONOSCOPY IMAGES FOR BETTER COLON POLYP DETECTION AND SEGMENTATION* , *Image Processing, LICEET on 2020.*

## Awards

- 2001 The second top rank in the Electrical Department.
- 2007 The first top rank in the Electrical Department.
- 2015 IEEE- conference Travel Grant.
- 2016 Certificate from IEEE Transactions on Image Processing, the only paper published which submitted from Libya for decades
- 2017 Ahead of Electrical Department-Misurata University

## Reviewer for following Journals

- *IEEE-Transactions on Image Processing, IET Image Processing, Journal of Electronic Imaging-SPIE, Neurocomputing, AJCITA.*

## Personal Skills

- Computer C, C++, PYTHON, Fortran, Visual Basic, Assembly, OOP, NETWORK SIMULATOR (NS-2), HTML, L<sup>A</sup>T<sub>E</sub>X, OpenOffice, Linux, Microsoft Windows, Matlab.
- Language Fluent in Arabic. Proficient in English.