

# Sherif Nagib Abbas Seha

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## Education

- May 2015                    **M. Sc. in Electrical Engineering (Electronics and Communications)**, Assiut University, Assiut, Egypt.
- July 2011                    **B. Sc. in Electrical Engineering (Electronics and Communications)**, Assiut University, Assiut, Egypt.

## Research Interests

- Digital Signal Processing, Biomedical Signal Processing, Pattern Recognition, Biometrics.

## Professional Experience

- June 2015 – Present            **Assistant Lecturer**, Electronics and Communications Engineering, Electrical Department, Assiut University, Assiut, Egypt.
- Oct. 2011 – June 2015        **Demonstrator**, Electronics and Communications Engineering, Electrical Department, Assiut University, Assiut, Egypt.

## Publications

### A. Journal Publications

1. M. Abo-Zahhad, Sabah M. Ahmed, and **Sherif N. Abbas**, "Biometric Authentication Based on PCG and ECG Signals: Present Status and Future Directions," *Signal, Image, and Video Processing*, vol. 8, no. 4, pp 739-751, 2014. (IF=1.43)
2. M. Abo-Zahhad, Sabah M. Ahmed, and **Sherif N. Abbas**, "A Novel Biometric Approach for Human Identification and Verification Using Eye Blinking Signal," *IEEE Signal Processing Letters*, vol. 22, no. 7, pp 876-880, 2015. (IF=1.75)
3. M. Abo-Zahhad, Sabah M. Ahmed, and **Sherif N. Abbas**, "State of the Art Methods and Future Perspectives for Personal Recognition Based on Electroencephalogram Signals," *IET Biometrics*, DOI: 10.1049/iet-bmt.2014.0040. (IF=0.857)
4. M. Abo-Zahhad, Sabah M. Ahmed, and **Sherif N. Abbas**, "A New EEG Acquisition Protocol for Biometric Identification Using Eye Blinking Signals," *International Journal of Intelligent Systems and Applications (IJISA)*, vol. 7, no. 6, pp. 48-54, 2015.

5. M. Abo-Zahhad, Sabah M. Ahmed, and **Sherif N. Abbas**, "A New Multi-level Approach to EEG Based Human Authentication Using Eye Blinking," *Pattern Recognition Letters*. (IF=1.55, Under Review)
6. M. Abo-Zahhad, Sabah M. Ahmed, and **Sherif N. Abbas**, "A Comparative Approach between Cepstral Features for Human Authentication Using Heart Sounds," *Signal, image, and Video Processing*. (IF=1.43, Under Review)

## **B. Conference Publications**

1. M. Abo-Zahhad, Sabah M. Ahmed, and **Sherif N. Abbas**, "PCG Biometric Identification System Based on Feature Level Fusion Using Canonical Correlation Analysis," in Proc. IEEE 27th Canadian Conf. Electrical and Computer Engineering (CCECE), Toronto, Canada, pp 1-6, 2014.
2. M. Abo-Zahhad, Sabah M. Ahmed, and **Sherif N. Abbas**, "A New Biometric Modality for Human Authentication Using Eye Blinking," in Proc. IEEE 7th Cairo Int. Biomedical Engineering Conf. (CIBEC), Giza, Egypt, pp. 174-177, 2014.

## **Courses**

- EE 324: Guided Waves and Antennas
- E224: Electric Testing
- E126: Electric Testing (1)
- EE 431: Digital Telephony
- EE 323: Electrical Testing
- EE 425: Electrical Testing
- Designing with Microcontrollers
- EC 0917: Embedded Systems (Mechatronics Department)

## **Awards**

- MFK foundation scholarship for the top students in the secondary education stage.
- Excellence undergraduate student award, Faculty of Engineering, Assiut University, 2007 - 2011.

## **Funded Projects**

- Project (2013-2014): **Vehicle to Vehicle (V2V) Communication System**  
Funding Agency: NTRA  
Supervision: Prof. Mohammed Abo-Zahhad, Prof. Sabah Mohammed Ahmed,  
Dr. Mohammed Farrag, Eng. Sherif Nagib Abbas  
Budget: 6,000 EGP

Duration: 1 year

- Project (2012-2013): **Wireless Vehicle System for Traffic Control**

Funding Agency: NTRA

Supervision: Dr. Osama Mohammed Hussein, Dr. Mohammed Farrag, Eng. Sherif Nagib  
Abbas

Budget: 5,000 EGP

Duration: 1 year

## **References**

- Mohammed Abo-Zahhad, Ph.D.  
Professor and Head of Electrical Engineering Department  
Assiut University, Egypt  
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- Hany Selim Girgis, Ph.D., Professor  
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- Sabah Mohamed Ahmed, Ph.D., Professor  
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