

Moataz Kilany

Teaching Assistant at Computers and Information Dept., Minya University, Egypt.

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Recent Master's degree graduate in Computer Science with 4+ years of experience in teaching undergraduate students and software development.

Experience

2012 - present

Teaching Assistant

Computers and Information Dept.

- Object Oriented Programming in C++.
- Computer architecture and organization.
- C#.NET / windows forms / ADO.NET.
- Distributed systems applications using MPI / C++, C#.NET threading
- Scheduling responsibility for all departments and levels of faculty.
- Developed a reliable scheduling application that builds faculty time tables in all views and reports.

2011 - 2012

Management information system

IT Department, Egyptian Army

- Managing the system for in/out messaging in the Organization and Administration Authority unit for the Armed Forces
- Tools used: C#.NET 3.5 / Windows Forms / SQL server 2008.

2008 - 2010

Software/Web Developer

Internships during undergraduate study

Petrobel for petroleum services in Cairo. (summer 2008)

Tools: Oracle 10g / fundamentals of networks.

CITPoint Microsoft golden partner, Cairo, sponsored by ITAC-ITIDA. (summer 2009, 2010)

Tools:

- Application logic) :PHP, ASP.Net 3.5
- Database): - MySQL, SQL Server 2005.
- Code source control) MS Visual Source Safe.
- task management) MS Groove 2007.

2012 - 2012

Research : Iron Detection Using GPR and Satellite scan systems

Established research on accurate identification of Iron sources using different sensory techniques.

2013 - 2016

Research : Signal Classification / Analysis using hybrid swarm intelligence algorithms

Realized hybrid swarm optimization and classification algorithms to accurately identify human behavioral patterns using bio-signals, and other data sources.

Education

2017

Computers and Information, Cairo University, Egypt, MS

Masters degree in computer science.

2011 **Computers and Information, Minya University, Egypt, B.S.**

Bachelor degree

GPA: A (90.31% - Excellent with Honor, and ranked First of the class)

Skills

Expert in teaching undergraduate students.

Excellent in research, it is always my way of solving almost any problem.

Good communication skills, bilingual (Native Arabic and very good in English , TOEFL IBT-2018 score of 97)

Hard work and patience lead me through any road to achieve my goals.

Very productive both in a team and independent.

Publications

- 2017 Moataz Kilany, Mohamed Mostafa Fouad, Ahmed Monem Hemdan, and Aboul Ella Hassanien. *Fish Growth Performance Classification Based on Ammonia Concentrations*, pages 330– 339. Springer International Publishing, Cham, 2016. ISBN 978-3-319-60834-1. doi: 10.1007/978-3-319-60834-1 33.
- 2017 Moataz Kilany, Essam H. Houssein, Aboul Ella Hassanien, and Amr Badr. *Hybrid water wave optimization and support vector machine to improve EMG signal classification for neurogenic disorders*. In The 12th IEEE International Conference on Computer Engineering and Systems (ICCES 2017). IEEE, 2017.
- 2017 Aboul Ella Hassanien, Moataz Kilany, and Essam H. Houssein. *Combining support vector machine and elephant herding optimization for cardiac arrhythmias*. Journal of Biomedical Signal Processing and Control, 2017.
- 2017 Aboul Ella Hassanien, Moataz Kilany, Essam H. Houssein, and Hameed AlQaheri. *Intelligent human emotion recognition based on elephant herding optimization tuned support vector regression*. Biomedical Signal Processing and Control, 2017.
- 2017 Moataz Kilany, Essam H. Houssein, Aboul Ella Hassanien, and Amr Badr. *Human actions identification based on a hybrid EHO-SVM algorithm for EMG signals*. Journal of Electromyography and Kinesiology, 2017.
- 2017 Essam H. Houssein, Moataz Kilany, and Aboul. *ECG signals classification: a review*. International Journal of Intelligent Engineering Informatics, 2017. doi: 10.1504/IJIEI.2017.10008807.
- 2016 Moataz Kilany, Aboul Ella Hassanien, Amr Badr, Pei-Wei Tsai, and JengShyang Pan. *A Behavioral Action Sequences Process Design*, pages 502–512. Springer International Publishing, Cham, 2016. ISBN 978-3-319-48308-5. doi: 10.1007/978-3-319-48308-5 48.
- 2016 Essam H. Houssein, Moataz Kilany, Aboul Ella Hassanien, and Va- clav Snasel. *A Two-Stage Feature Extraction Approach for ECG Signals*, pages 299–310. Springer International Publishing, Cham, 2016. ISBN 978-3-319-60834-1. doi: 10.1007/978-3-319-60834-1 30.
- 2015 M. Kilany, A. E. Hassanien, and A. Badr. *Accelerometer-based human activity classification using water wave optimization approach*. In 2015 11th International Computer Engineering Conference (ICENCO), pages 175–180, Dec 2015. doi: 10.1109/ICENCO.2015.7416344.
- 2015 M. Kilany, A. Adl, A. E. Hassanien, and T. H. Kim. *Towards a computational human behavioral model*. In 2015 3rd International Conference on Computer, Information and Application, pages 42–45, May 2015. doi: 10.1109/CIA.2015.18.

Research Interests

Employing swarm intelligence for accuracy improvement of machine learning algorithms.

signal processing - features selection - extraction (Bio-Signals / GIS data).

Human Behavior Modeling.

Tuning the performance of Swarm Optimization Algorithms

Participated in a research on minerals estimation in deserts using remote sensing techniques.