



### **Walid Zakhem**

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## **Biography**

I received both my Master of Science, Bachelor of Science degrees in Electrical Engineering and Minor in Mathematics from Southern Illinois University at Carbondale, Illinois, USA; I joined Notre Dame University - Louaize in October 2004 at the Department of Electrical Computer and Communication Engineering in North Lebanon Campus - Barsa. My research interests are signal processing, Neural Networks and Educational Data Mining. I teach the Electrical, Computer and Communication Engineering Laboratory courses at NLC.

## **Peer-reviewed Journals**

- C. E. Moucary, A. Kassem, D. Rizk, R. Rizk, S. Sawan and W. Zakhem, "Commodious Control Apparatus for Impaired People," 2022 International Conference on Microelectronics (ICM), Casablanca, Morocco, 2022, pp. 16-20, doi: 10.1109/ICM56065.2022.10005362.
- Khair, M, Zakhem, W., & El Moucary, C. (2012) Solving Probation and Change-of-Major Issues in Higher Education Using Data Mining Techniques. International Journal of Multidisciplinary Sciences and Engineering, Vol. 3, no. 11, pp. 6–11.
- El Moucary, C., Khair, M., & Zakhem, W. (2011) Improving Student's Performance Using Data Clustering and Neural Networks in Foreign-Language Based Higher Education. The Research Bulletin of Jordan ACM – ISWSA, Vol. 2, no. 3, pp. 27–34.

## **Peer-reviewed Conference Proceedings**

- Khair, M., El Moucary, C. & Zakhem, W (2012) Creating an Educational Roadmap for Engineering Students via an Optimal and Iterative Yearly Regression Tree using Data Mining. Proceedings of the 4<sup>th</sup> International Conference on Knowledge Engineering and Ontology Development, SciTePress DOI: 10.5220/0004130300430052, pp. 43-52, Barcelona, Spain, October 4-7.
- El Moucary, C., Khair, M, & Zakhem, W (2012) Educational Data mining for the Engineering Students at NDU. 18<sup>th</sup> International LAAS Science Meeting: New Discoveries in Science, NDU, 22-24 March.

## **Chapters in Books**

- Chady El Moucary, Abdallah Kassem, Walid Zakhem, Chaybane Ghabach, Roger El Khoury, and Patrick Rizk, "Complete Design of a Hardware and Software Framework for PWM/Discrete PID-Based Speed Control of a Permanent-Magnet DC Motor without Prior Knowledge of the Motor's Parameters", chapter in a book "Recent Trends in Computer Applications for Sustainable Development", pp 153-173, published by Springer-Verlag, 2018.