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College of Business Administration
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EDUCATION

University of New Orleans, New Orleans, USA *PhD.,
Financial Economics*
MSc., Financial Economics

May. 2018

May. 2016

Mansoura University, Mansoura, Egypt

MSc., Finance

BSc., Business Administration

October. 2012

June. 2009

RESEARCH INTERESTS

Corporate Finance, Financial Institutions and Banking, FinTech, Intelligent systems and applications in Finance.

PUBLICATIONS

-
- Metawa, N., Akour, I., Tarek, Z. and Elhoseny, M., 2023. Improved optimization model for forecasting stock directions (FSD). *Economic Research-Ekonomska Istraživanja*, 36(3), p.2223263.
 - Metawa, N., Itani, R., Metawa, S. and Elgayar, A., 2023. The impact of digitalization on credit risk: the mediating role of financial inclusion (National Bank of Egypt (NBE) case study). *Economic Research-Ekonomska Istraživanja*, 36(2), p.2178018.

- Mirza, N., Elhoseny, M., Umar, M. and Metawa, N., 2023. Safeguarding FinTech innovations with Machine Learning: Comparative Assessment of Various Approaches. *Research in International Business and Finance*, p.102009.
- Metawa, N., Boujlil, R. and Metawea, M., 2023. Multi-Valued Neutrosophic Sets for Forecasting Cryptocurrency Volatility. *International Journal of Neutrosophic Science*, 20(3), pp.65-5.
- Metawa, N., Dogan, E. and Taskin, D., 2022. Analyzing the nexus of green economy, clean and financial technology. *Economic Analysis and Policy*, 76, pp.385-396.
- Metawa, N. and Mourad, N., 2022. Neutrosophic-Based Multi-Objectives Model for Financial Risk Management. *International Journal of Neutrosophic Science (IJNS)*, 19(1).
- Elhoseny, M., Metawa, N. and El-hasnony, I.M., 2022. A new metaheuristic optimization model for financial crisis prediction: Towards sustainable development. *Sustainable Computing: Informatics and Systems*, 35, p.100778.
- Metawa, N., Hassan, M.K. and Metawa, S. eds., 2022. *Artificial intelligence and big data for financial risk management: intelligent applications*. Taylor & Francis.
- Metawea, M., Metawa, S. and Metawa, N., 2022. 214 An Overview of Neural Network in Financial Risk Management. *Artificial Intelligence and Big Data for Financial Risk Management: Intelligent Applications*, p.214.
- Metawea, M., Metawa, S. and Metawa, N., 2022. 5 Predicting Stock Return Risk and Volatility Using Neural Network. *Artificial Intelligence and Big Data for Financial Risk Management: Intelligent Applications*, p.67.
- Metawa, N., Elhoseny, M. and Mutawea, M., 2022. The role of information systems for digital transformation in the private sector: a review of Egyptian SMEs. *African Journal of Economic and Management Studies*, 13(3), pp.468-479.
- Gaou, E.M., Gaou, S., Krit, S.E. and Metawa, N., 2022. Supply Chain Risk Management: Experimentation of the Ishikawa Diagram in Upstream Logistics. In *Distributed Sensing and Intelligent Systems: Proceedings of ICDSIS 2020* (pp. 351-361). Cham: Springer International Publishing.
- Elhoseny, M., Metawa, N., Sztano, G. et al. Deep Learning-Based Model for Financial Distress Prediction. *Ann Oper Res* (2022). <https://doi.org/10.1007/s10479-022-04766-5>
- N. Metawa, Elhoseny, M, I. Elhasnouny., A New Metaheuristic Optimization Model for Financial Crisis Prediction: Towards Sustainable Development, *Sustainable Computing: Informatics and Systems*, 1007-78, 2022. <https://doi.org/10.1016/j.suscom.2022.100778>
- Metawa, N., Elhoseny, M. and Mutawea, M. (2021), "The role of information systems for digital transformation in the private sector: a review of Egyptian SMEs", *African Journal of Economic and Management Studies*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/AJEMS-01-2021-0037>

- Lei Zhu, Menghao Li, N Metawa, “Financial Risk Evaluation Z-Score Model for Intelligent IoT-based Enterprises”, *Information Processing & Management*, Volume 58, Issue 6, 2021. <https://doi.org/10.1016/j.ipm.2021.102692>.
- Noura Metawa, et al., “Internet of Things Enabled Financial Crisis Prediction in Enterprises Using Optimal Feature Subset Selection-Based Classification Model”, *Big Data*, 2021, <https://doi.org/10.1089/big.2020.0192>
- Geng, Chengxuan, Xu, Yunkai, and Metawa, Noura. ‘Intelligent Financial Decision Support System Based on Data Mining’. 1 Jan. 2021 : 1 – 10. [DOI: 10.3233/JIFS-189838](https://doi.org/10.3233/JIFS-189838).
- Noura Metawa, Irina V. Pustokhina, Denis A. Pustokhin, K. Shankar, and Mohamed Elhoseny., “Computational Intelligence-Based Financial Crisis Prediction Model Using Feature Subset Selection with Optimal Deep Belief Network”, *Big Data*, 100-115, 2021. <https://doi.org/10.1089/big.2020.0158>
- Chen, Xuanjun and Metawa, N. ‘Enterprise Financial Management Information System Based on Cloud Computing in Big Data Environment’. 1 Jan. 2020 : 5223 – 5232. [DOI: 10.3233/JIFS-189007](https://doi.org/10.3233/JIFS-189007)
- Metawa, Noura, Mohamemd I. Alghamdi, Ibrahim M. El-Hasnony, and Mohamed Elhoseny. "Return Rate Prediction in Blockchain Financial Products Using Deep Learning." *Sustainability* 13, no. 21 (2021): 11901.
- Uthayakumar, J., Metawa, N., Shankar, K. et al. Intelligent hybrid model for financial crisis prediction using machine learning techniques. *Inf Syst E-Bus Manage* 18, 617–645 (2020). <https://doi.org/10.1007/s10257-018-0388-9>
- Abdel-Basset, M., Ding, W., Mohamed, R., Metawa, N., “An integrated plithogenic MCDM approach for financial performance evaluation of manufacturing industries”. *Risk Management*, 22, 192–218 (2020). <https://doi.org/10.1057/s41283-020-00061-4>
- Chen, Xuanjun and Metawa, N. ‘Enterprise Financial Management Information System Based on Cloud Computing in Big Data Environment’. *Journal of Intelligent and Fuzzy Systems*, 1 Jan. 2020 : 1 – 10. [DOI: 10.3233/JIFS-189007](https://doi.org/10.3233/JIFS-189007)
- Luo T, Noura Metawa, “Intelligent algorithm of optimal investment model under stochastic interest rate and stochastic volatility”, *Journal of Intelligent & Fuzzy Systems*, vol. 37, no. 1, pp. 283-292, 2019. <https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs179085>
- Ling Z, Zengrui T, and N Metawa, “Data mining-based competency model of innovation and entrepreneurship”, *Journal of Intelligent & Fuzzy Systems*, vol. 37, no. 1, pp. 35-43, 2019 <https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs179061>
- “Expert Systems in Finance: Smart Financial Applications in Big Data Environments”, M Kabir Hassan, Aboul Ella Hassanien, Mohamed Elhoseny, Noura Metawa, ISBN 9780367109523, 2019, Routledge. <https://www.routledge.com/Expert-Systems-in-Finance-Smart-Financial-Applications-in-Big-Data-Environments/Metawa-Elhoseny-Hassanien-Hassan/p/book/9780367109523>

- J Uthayakumar, Noura Metawa, K Shankar, SK Lakshmanaprabu, “Intelligent hybrid model for financial crisis prediction using machine learning techniques”, *Information Systems and e-Business Management*, Springer, 2018, (doi.org/10.1007/s10257-018-0388-9).
- Umair Khan, Farhan Aadil, Mustansar Ghazanfar, Salabat Khan, Noura Metawa, Khan Muhammad, Irfan Mehmood, Yunyoung Nam, “A Robust Regression-Based Stock Exchange Forecasting and Determination of Correlation between Stock Markets”, *Sustainability*, MDPI, 2018, 10(10), 3702, (doi.org/10.3390/su10103702)
- Metawa, Noura, Hassan, Kabir M., Elhoseny, Mohamed. (2017). “Genetic Algorithm Based *Model for Optimizing Bank Lending Decisions*”, *Expert Systems with Applications* 80, 75-82. Elsevier. ([doi:10.1016/j.eswa.2017.03.021](https://doi.org/10.1016/j.eswa.2017.03.021))
- N. Metawa, M. Elhoseny, M. K. Hassan and A. Hassanien, "Loan portfolio optimization using Genetic Algorithm: A case of credit constraints," *2016 12th International Computer Engineering Conference (ICENCO)*, IEEE, 2016, pp. 59-64. ([doi: 10.1109/ICENCO.2016.7856446](https://doi.org/10.1109/ICENCO.2016.7856446))
- M. Elhoseny, N. Metawa and A. Hassanien, "An automated information system to ensure quality in higher education institutions," *2016 12th International Computer Engineering Conference (ICENCO)*, IEEE, 2016, pp. 196-201. ([doi: 10.1109/ICENCO.2016.7856468](https://doi.org/10.1109/ICENCO.2016.7856468))
- M. Elhoseny, N. Metawa, A. Darwish, and A. Hassanien, Intelligent Information System to Ensure Quality in Higher Education Institutions, Towards an Automated E-University, *International Journal of Computational Intelligence Studies*, Inderscience, 2018, <https://doi.org/10.1504/IJCISTUDIES.2017.089049>.
- Noura Metawa, M Kabir Hassan, Saad Metawa, M Faisal Safa, “Impact of behavioral factors on investors’ financial decisions: case of the Egyptian stock market”, *International Journal of Islamic and Middle Eastern Finance and Management*, Emerald, 2018, (doi.org/10.1108/IMEFM-12-2017-0333).

CONFERENCE PAPERS

- Zhizhou Liu, Noura Metawa, “Application of big data as a service in financial management of Accounting Specialty”, 2021 International Conference on Smart Technologies and Systems for Internet of Things. Springer, Scoups, Virtual, Dec 2021. <http://sts-iot2021.com.cn/Program>
- Noura Metawa, Jennifer Broadmann, Tarun Mukherjee, Corporate governance determinants in start-up firms, *AFS 2017 Annual Conference, Nashville TN, 2017*.
- Noura Metawa, M. Kabir Hassan, Mohamed Elhoseny, Saad Metawa, The Relationship between Behavioral Factors and Investors Financial Decisions: An Empirical Study on the Egyptian Stock Market, *AFS 2016 Annual Conference, 2016*.
- Noura Metawa, M. Kabir Hassan, Investor protection, financial constraints and investment efficiency in US multinationals. *Southwest Society of Economics, Little Rock, AR 2017*.

- Alfiya Salikhova, Noura Metawa, M. Kabir Hassan, Tax Reforms and corporate financial structure: Evidence from listed companies in Kazakhstan, *AEF 54th annual conference, Charleston, SC 2017*.
- Alfiya Salikhova, Noura Metawa, M. Kabir Hassan, Tax Reforms and corporate financial structure: Evidence from listed companies in Kazakhstan, *Southwest Society of Economics, Little Rock, AR 2017*.

Books and other publications

- Book” Advanced Machine Learning Algorithms for Complex Financial Applications”, Mohammad Irfan, Mohamed Elhoseny, and Noura Metawa, IGI Global, In press 2022.
- Book: “AI and Big Data in Financial Risk Management”, Noura Metawa, M.Kabir Hassan, and Saad Metawa, Taylor and Francis , August 2022.
<https://www.routledge.com/Artificial-Intelligence-and-Big-Data-for-Financial-Risk-Management-Intelligent/Metawa-Hassan-Metawa/p/book/9780367700560>
- “Expert Systems in Finance: Smart Financial Applications in Big Data Environments”, M Kabir Hassan, Aboul Ella Hassanien, Mohamed Elhoseny, Noura Metawa, ISBN 9780367109523, 2019, Routledge.
<https://www.routledge.com/Expert-Systems-in-Finance-Smart-Financial-Applications-in-Big-DataEnvironments/Metawa-Elhoseny-Hassanien-Hassan/p/book/9780367109523>

TEACHING EXPERIENCE

- **University of Sharjah**

Fall 2022	Global Financial Management MBA Real Estate Finance	Rating 4.7/5 Rating 4.6/5
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Spring 2023	Global Financial Management MBA International Financial Management Real Estate Finance	Rating 4.8/5 Rating 4.7/5 Rating 4.6/5
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- **University of Sharjah**

Fall 2021	Financial Management 51M Financial Management 11M Quantitative methods for Finance Real Estate Finance	Rating 4.7/5 Rating 4.6/5 Rating 4.9/5 Rating 4.5/5
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Spring 2022	Financial Management 52M Global Financial Management MBA International Financial Management	Rating 4.8/5 Rating 4.8/5 Rating 4.5/5
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Real Estate Finance

Rating 4.7/5

• **American University in the Emirates-Dubai-UAE**

Fall 2020	Microeconomics ECO100-1	Rating 91%
	Microeconomics ECO100-4	Rating 95%
	International Financial Management FIN404	Rating 97%
	Managerial Economics (GRADUATE-MBA)	Rating 91%
Spring 2020	Microeconomics ECO100-1	Rating 93%
	Financial Management FIN200-1	Rating 100%
	International Financial Management FIN404	Rating 99%

• **Mansoura University-Mansoua-Egypt**

Fall 2019	Management Information Systems	Rating 4.7/5
	Financial Negotiation Management/MBA	Rating 4.9/5
	Financial Management/Masters	Rating 4.7/5
Spring 2020	Financial Management/MBA	Rating 4.8/5
	Financial Institutions and Banking	Rating 4.8/5
	Advanced topics in Finance/MBA	Rating 5/5

•# **Regis University- Colorado-USA**

Spring 2019	Security Analysis and Portfolio Management/MBA	Rating 4.8/5
Fall 2018	Business Finance (BA 4100) -01	Rating 4.3/5
	Business Finance (BA 4100) -02	Rating 4.5/5
	Personal Finance (BA 4115)	Rating 4.7/5

•# **University of New Orleans-Louisiana-USA**

Summer 2016	Statistics for Managers (QMBE 4400)	Rating 5/5
Fall 2016	Fundamentals of Financial Management (FIN 3300)	Rating 4.67/5
Spring 2017	Principles of Microeconomics (Econ 1203)	Rating 4.8/5
Summer 2017	Money and Banking (Econ 2221)	Rating 4.9/5
Fall 2017	Fundamentals of Financial Management (FIN 3300)	Rating 4.5/5

• **Mansoura University-Mansoua-Egypt**

Spring 2011	Financial Management
Fall 2011	Financial Markets and Institutions
Spring 2012	Strategic management, Marketing Research

Fall 2012	Management of Information systems, Public Administration
Spring 2013	Small Business Finance, Human Resources Management
Fall 2013	Financial Management, Financial Markets and Institutions

WORK EXPERIENCE

- Chair of Teaching and Learning committee, College of Business Administration, University of Sharjah, Emirates, 2022-2023
- Chair of Finance Club, College of Business Administration, University of Sharjah, Emirates, 2022-2023
- Chair of Seminars and workshop committee, College of Business Administration, AUE, Emirates, 2020-2021
- Member of AACSB committee, College of Business Administration, AUE, Emirates, 2020 - 2021
- Editorial Board member, The Egyptian Journal for business research, Faculty of Commerce, Mansoura University, Egypt.
- Program designer for Master of Financial Economics at Anderson College of Business, Regis University, USA, 2018 – 2019.
- Course designer (Finance for Managers, Securities Markets Fundamentals, Derivatives), Anderson College of Business, Regis University, USA, 2018 – 2019.
- Chair of Regis University Research and Scholarship committee (RURS), 2019-current.
- Member at the Regis University AACSB committee, 2019-2019.
- Graduate Assistant for “AACSB: Assurance of Learning Standards” at College of Business Administration, University of New Orleans, USA, April 2015 – May 2018
- Team Manager for “Quality Assurance and Accreditation Project”, Urology and Nephrology Center, Mansoura, Egypt, April 2012 – May 2013
- Website content organizer for “Electronic documentation project”, Mansoura University, Egypt, January 2011 – May 2013

WORKSHOPS AND TRAINING

Workshops at AUE-Dubai-UAE

- “Academic Integrity and Turnitin Usage” at AUE in November 2020.
- “Midterm Exam Preparation using Respondus and Moodle” at AUE in October 2020.
- “How to publish in SCOPUS journal” at AUE in October 2020.
- “Midterm Exam Preparation” at AUE in October 2020.
- “Factor analysis a requisite imperative technique for testing relationship and hypotheses” at AUE in October 2020.
- “Training for Master thesis supervisor” at AUE in October 2020.
- “Research and Publication in SCOPUS” at AUE in September 2020
- “Academic Administrators Roles & Responsibilities” at AUE in September 2020.
- “Facilitating Rich Dialogue and Managing Assessment in Remote Learning Environments” at AUE in September 2020.
- “Designing Course Assessment and Delivery Using Online Platform” at AUE in August 2020.
- “Teaching and Learning Effectiveness Workshop” at AUE in August 2020.

Workshops at Mansoura University-Egypt

- International Publication and ethics, Mansoura University, June 2019
- Employee Harassment training, Regis University, August 2018
- Employee Ethics training, University of New Orleans, September 2017
- Academic career ethics, Mansoura University, October 2012
- Communication styles in the education processes, Mansoura University, October 2012
- Quality standards in the teaching process, Mansoura University, October 2012
- Ethics of the scientific research, Mansoura University, November 2012
- Effective presentation, Mansoura University, December, 2012
- Time Management, Mansoura University, January 2013.

Workshops at University of Sharjah- UAE

AWARDS AND HONORS

- Mansoura University Distinguished Research Encouragement Award, Mansoura University, Egypt, 2020.
- Mansoura University publications Incentives Award, Mansoura University, Egypt, 2019.
- Anderson College of Business Scholarly Achievement Award, Regis University, USA, 2019
- Chartered Financial Analyst (In Progress, passed Level One)
- Publons review award. “Top 1% reviewer in Finance”, 2018
- The Egyptian government general mission PhD scholarship, 2015
- Privateer Doctoral award, University of New Orleans 2014 – 2018

SOFTWARE and DATABASES EXPERIENCE

- Stata, SAS, SPSS
- # Compustat, CRISP, Bloomberg
- Connect by McGrawhill, MidTap by Cengage, Wiley Plus by Wiley

REFERENCES

Dr. M. Kabir Hassan
Hibernia Professor of Economics and Finance Bank One Professor in Business
University of New Orleans
Phone: (504)-280-6163
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Dr. Tim Keane
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