

# November

## Newsletter

**2025**

**ISSUE#46**



“

“Real education should educate us out of self  
into something far finer; into a selflessness  
which links us with all humanity.”

— Nancy Astor

”





# News

## OWSD, A Global Honor for Nile University's Dr. Lobna Said

Nile University is delighted to announce that Dr. Lobna Said, MSD Program Director, Nile University, has been elected as the Regional Member for the Arab Region on the Executive Board of the Organization for Women in Science for the Developing World (OWSD).

This distinguished recognition highlights her exceptional commitment to advancing scientific research and championing the role of women scientists across developing nations. Dr. Lobna is one of Nile University's most prolific researchers, with over 190 publications, an h-index of 35, and nearly 4,000 citations—a testament to the global impact of her scholarly contributions. Nile University proudly congratulates Dr. Lobna on this remarkable accomplishment and well-deserved recognition.



## Dr. Lobna Said Represents Nile University in Roundtable with Germany's First Lady



Nile University proudly celebrates Dr. Lobna Said, Associate Professor and Director of the Microelectronic System Design Program, for her participation in a distinguished roundtable discussion led by Germany's First Lady, Elke BÜdenbender, at the enpact hub in Zamalek.

The event, organized in collaboration with the Embassy of the Federal Republic of Germany in Cairo, brought together a remarkable group of Egyptian women leaders and innovators from academia, science, and entrepreneurship.

The discussion offered a meaningful exchange on women's empowerment, science, and social innovation, showcasing the shared German Egyptian commitment to advancing leadership and inclusivity across all fields.

# News

## Nile University Partners with Leibniz Universität Hannover on Immersive Technology Research



Nile University is pleased to announce this international research collaboration with Leibniz Universität Hannover in Germany, focusing on advancing technologies that support virtual reality and telepresence applications. As immersive technologies continue to grow, the need for faster and smarter data handling has become increasingly important. As part of this collaboration, a joint team is developing a hardware accelerator for 3D point cloud compression to enable more efficient processing of large-scale spatial data. The research was carried out by Eng. Hisham Elrefae, a master's student at Nile University, as part of his thesis work in the laboratory of AGYA alumnus Dr. Amr Rizk in Hannover.

This partnership reflects Nile University's commitment to fostering impactful international research collaborations and supporting students engaged in cutting-edge technological innovation.,

# EVENTS





# Events

## Nile University Music Club - NUMC Saqya Concert



Nile University Music Club (NUMC) lit up the iconic El Sawy Culturewheel in El Zamalek with a performance that celebrated talent, creativity, and community. Students, alumni, and guests gathered for an unforgettable evening filled with live music, passionate vocals, and vibrant instrumentals that showcased the club's growing artistic identity.

The event featured a dynamic setlist blending classics with modern hits, highlighting NUMC's dedication to musical diversity and artistic excellence. From soulful acoustic pieces to high-energy band performances, the atmosphere was electric from start to finish.

More than just a concert, the night served as a testament to NUMC's commitment to nurturing student musicians and bringing the university community together through the power of music. It was a proud and inspiring moment for everyone who took part.

## Enactus Leadership Event



Nile University was honored to participate in the leadership event hosted at The British University in Egypt by Enactus Egypt. The experience was highly valuable and enriching.

The sessions offered deep insights into developing a strong business model, along with comprehensive guidance on essential human resources practices. We also learned effective strategies for managing our projects throughout the season, which will greatly support our team's growth and performance.

Overall, the event was inspiring, informative, and an excellent opportunity to enhance our leadership and organizational skills.

# Events

## NU E-Club Hosts Medhat Yassin with AiroBusiness Summit



NU E-Club partnered in organizing the Cairo Business Summit, hosting the Medhat Yassin AiroBusiness Summit. The event featured 10+ expert speakers and 9 interactive workshops, offering students and young professionals' insights into entrepreneurship, innovation, and business growth.

Through engaging talks and hands-on sessions, NU E-Club provided a platform for networking, learning, and inspiration, reinforcing its commitment to empowering the next generation of business leaders.

## Nile University Team Attends Elavate lab by Enactus



We are thrilled to have participated in this exceptional event that offered invaluable experiences and insights. The program kicked off with thought-provoking keynotes, transitioned into engaging panel discussions, and culminated with impressive startup pitches that highlighted remarkable innovation.

Witnessing the recognition of the top three startups was particularly inspiring, providing us with valuable lessons and motivation. The event deepened our understanding of effective pitching techniques and outlined the essential steps needed to develop our own startup ideas. Overall, it was a truly impactful experience that broadened our knowledge and strengthened our entrepreneurial mindset.

# ACHIEVEMENTS





# Achievements

## Congratulations, Prof. Irene Samy Fahim!

Nile University proudly celebrates the promotion of Dr. Irene Samy Fahim to Professor of Industrial and Service Engineering and Management and recognizes her outstanding leadership as Director of the Smart Engineering Systems Research Center (SESC).

From pioneering sustainable materials and biodegradable packaging solutions to driving international collaborations on climate action, circular economy, and gender equality, Prof. Irene continues to set a remarkable example of innovation with real-world impact. With over 100 publications, 1100+ citations, and an h-index of 16, her research contributions are shaping global discussions in engineering, sustainability, and smart systems.



We congratulate Prof. Irene on this well-deserved promotion and honor her continued achievements and inspiring journey.

## Nile University's Azzaz Advances in University Boxing Championship

As part of the Universities League Boxing competitions, Nile University's Mohamed Ahmed Azzaz, from the Faculty of Biotechnology, has advanced to the Round of 16 in the 75 kg category.

Azzaz secured a strong win against Benha University in a highly competitive bracket that included over 18 universities. This achievement highlights his skill and determination, and Nile University proudly supports him as he continues in the championship.



## Nile University Project Featured in National Newspaper "Al-Akhbar"

Nile University is proud to announce that one of its innovative research projects has been featured in the national newspaper Al-Akhbar, recognizing the growing impact of NU's contributions to the fields of artificial intelligence and financial technology.

Dr. Lobna Said provided an insightful introduction to the project, explaining its relevance and the value it brings to understanding and predicting financial market behavior through advanced AI techniques. The research introduces a digital model designed to analyze financial market patterns with human-like insight, demonstrating the potential of artificial intelligence to support data-driven decision-making in complex financial environments.

This national feature underscores the significance of NU's research contributions and reinforces the university's mission to drive impactful innovation that serves society and supports national development.



# STUDENT LIFE





# Student Life

## Ambassadors Training & Assessment Session

This month, our ambassadors participated in a comprehensive training and assessment session to prepare for the upcoming major fairs. The session refreshed key information about Nile University's programs and student life while the assessment allowed ambassadors to demonstrate their understanding and readiness. This preparation ensures that our team is fully equipped to represent NU confidently at all school visits and fairs.

## School Visits

In November, the SRO team visited 22 schools across Cairo, Giza, and surrounding areas, engaging with high school students and introducing them to Nile University's programs and opportunities. These visits also helped explore potential collaborations with key partner schools.

Schools visited included:

- ELS Kattamya
- Manhattan International School
- BCCIS West
- British School of Egypt – American School of Egypt
- Nefertari IG-BAC
- Narmer Language Dokki
- Own Heliopolis Schools
- Narmer Language Maadi
- Majesty International School
- Winchester British International School
- Wise International School
- Roots International School
- Imperial College Egypt
- Salahaldin International School
- Al Bashaer School
- Smart Vision International School
- St. Fatima International School – A. Hegaz
- Sakkara Language School Maadi
- Marvel International School
- Misr Language Schools University Fair
- Cairo British School
- Victory College Maadi





# Student Life

## Major Fairs:

Nile University participated in the Hurghada ZoneED Fair, meeting interested high school students and sharing insights about NU's programs and campus life. This fair was an excellent opportunity to reach students outside Cairo and highlight NU's academic offerings.



## On-Campus School Visits:



This month, we welcome students from STEM Gharbeya and Stem October for an interactive on-campus visit. Students explored hands-on activities and workshops, experiencing the dynamic academic environment at Nile University and gaining insight into potential future paths.

## Tarek Khalil Garden - NU Club Festival: A Celebration of Opportunities



Nile University hosted the NU Club Festival on 25 and 26 November, bringing together student clubs to introduce the diverse opportunities available on campus. This vibrant event aimed to enrich student life by helping NU students explore extracurricular activities, discover new interests, and engage with the university community.

As part of this lively two-day festival, the Skills and Employability Enhancement Center (SEEC) showcased the services and programs designed to support students' personal and professional growth. SEEC's participation allowed students to learn more about employability services, resume support, coaching sessions, internship opportunities, and upcoming on-campus initiatives.

# Student Life

## Bena Art Club Festival Activities



During the Clubs Festival, our team spent the day engaging with students, doing different activities together, and creating a fun and energetic atmosphere. We organized several surprises throughout the event, including face painting and small gifts for the winners of our games.

The festival was also a great opportunity to discover new talents. Many students showed interest in joining the club, and we welcomed many talented members who can help us expand our art and drawing activities across the university.

## NU Black Theatre Themed Club Festival

The NU Black Theatre cast had two successful days recruiting students for the workshop that they are preparing for the second day being themed. At this year's club festival The Mafia led by Al Capone and his henchmen with his cigar in his hand and his smile wide they stole the day's spotlight.



## AIESEC in NU Clubs Festival

AIESEC in NU proudly took part in the NU Club Festival, showcasing our mission of developing youth leadership and global engagement. Our booth attracted students eager to explore cultural exchange opportunities, practical leadership experiences, and impactful community projects. Throughout the event, our members connected with students, answered questions, and shared how AIESEC helps young people grow personally and professionally. The festival was a great chance to introduce more NU students to our programs and inspire them to take their first steps toward becoming proactive, globally minded leaders. We look forward to welcoming new members and building on the excitement created during this event.

The NU Club Festival was a great success, showcasing the enthusiasm of NU students and the vibrant spirit of campus life. We look forward to welcoming new members and building on the excitement created during this event!



# PUBLICATIONS







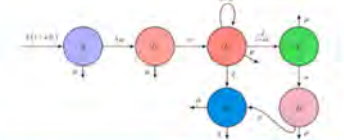


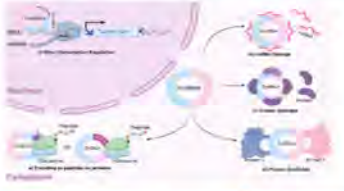
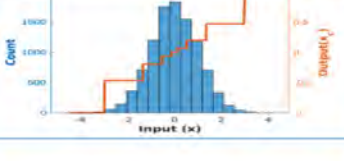


# NU Publications on **Scopus** during October & November 2025

	<p><b>100x longevity improvement of optoelectronic implants through balancing integral electric fields</b>  <b>NU Authors:</b> <a href="#">Ahmed Soltan</a>  Source: IEEE Transactions on Biomedical Engineering</p>
	<p><b>A comprehensive landscape of AI applications in broad-spectrum drug interaction prediction: a systematic review</b>  <b>NU Authors:</b> <a href="#">Mai S. Mabrouk</a>, <a href="#">Mohamed Mysara</a>, <a href="#">Mustafa A. Elattar</a>, <a href="#">Nour H. Marzouk</a>, <a href="#">Sahar Selim</a>  Source: Journal of Cheminformatics</p>
	<p><b>A deep generative approach to cancer prognosis: MMD-VAE for multi-omics data fusion</b>  <b>NU Authors:</b> <a href="#">Mai S. Mabrouk</a>  Source: Network Modeling Analysis in Health Informatics and Bioinformatics</p>
	<p><b>A Hybrid Human-AI Model for Enhanced Automated Vulnerability Scoring in Modern Vehicle Sensor Systems</b>  <b>NU Authors:</b> <a href="#">Mohamed Sayed Farghaly</a>, <a href="#">Heba Aslan</a>, <a href="#">Islam Tharwat Abdel Halim</a>  Source: Future Internet</p>
	<p><b>A Multimodal AI Pipeline for Automated UX Optimization</b>  <b>NU Authors:</b> <a href="#">Arwa I. Ahmed</a>, <a href="#">Ghada Khoriba</a>, <a href="#">Tamer Arafa</a>  Source: 5th International Mobile, Intelligent, and Ubiquitous Computing Conference, MIUCC 2025</p>
	<p><b>A Review on Environmental Impacts and Advanced Removal Strategies of Non-steroidal Anti-inflammatory Drugs</b>  <b>NU Authors:</b> <a href="#">Nabila A. Sallam</a>, <a href="#">Khlood A. Alrefaeay</a>, <a href="#">Irene Samy</a>  Source: International Journal of Environmental Research</p>
	<p><b>A Transformer-Driven Bilingual Approach to Arabic Text Summarization</b>  <b>NU Authors:</b> <a href="#">Mohamed AbuBakr</a>, <a href="#">Noha Gamal</a>  Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>
	<p><b>A Unified Security Operations Center and Zero Trust Architecture Framework for Adaptive IoT Threat Mitigation</b>  <b>NU Authors:</b> <a href="#">Omnia Moustafa Abdelaziz</a>, <a href="#">Heba Kamal Aslan</a>  Source: 5th International Mobile, Intelligent, and Ubiquitous Computing Conference, MIUCC 2025</p>
	<p><b>Advances in medical image segmentation: A comprehensive survey with a focus on lumbar spine applications</b>  <b>NU Authors:</b> <a href="#">Ahmad Mohamad Kabil</a>, <a href="#">Ghada Khoriba</a>, <a href="#">Mina Atef Yousef</a>  Source: Computers in Biology and Medicine</p>
	<p><b>AI-Based Examination Content Creation: Evaluating Large Language Models for Question Generation</b>  <b>NU Authors:</b> <a href="#">Shahd Hassan Abdelhamied</a>, <a href="#">Kenzy Khaled Antr</a>, <a href="#">Cecilia Mohamed Abdellah</a>, <a href="#">Mohamed Khaled Antr</a>, <a href="#">Zeyad Mohamed Mahrous Noha Gamal Eldin</a>  Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>


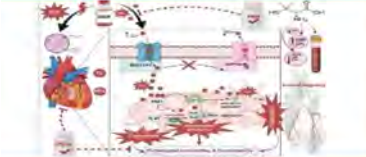
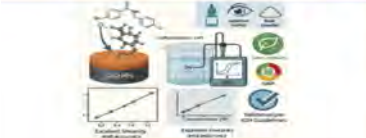

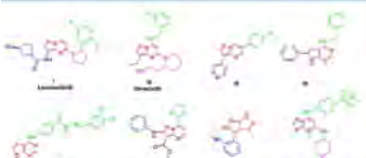







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	<p><b>ArEEG: an Open-Access Arabic Inner Speech EEG Dataset</b>  <b>NU Authors:</b> Donia Metwalli, Antony E. Kiroles, Yousef A. Radwan, Eslam Ahmed Mohamed, Mariam Barakat, Anas Ahmed, Amr M. Omar, Sahar Selim  Source: Scientific Data</p>
	<p><b>Assessing the Impact of Extreme Weather on Infrastructure Resilience</b>  <b>NU Authors:</b> Saif Eldeen Abdelmohsen, Islam Atwan, Eyad Elsanory, Muhammad Megahed, Noha Gamal Eldin Saad  Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>
	<p><b>Benchmarking vision-language models for brain cancer diagnosis using multisequence MRI</b>  <b>NU Authors:</b> Ghada Khoriba  Source: Informatics in Medicine Unlocked</p>
	<p><b>Beyond Blockchain: The Role of IOTA in IoT Applications</b>  <b>NU Authors:</b> Azza Hamdy Abady, Heba Kamal Aslan, Alaa Eldin Ayman Ali, Ahmed Sabry Mohamed  Source: 5th International Mobile, Intelligent, and Ubiquitous Computing Conference, MIUCC 2025</p>
	<p><b>Bifurcation and optimal control analysis for a fractional-order model of drug-resistant HBV infection</b>  <b>NU Authors:</b> Waleed Adel  Source: Computers in Biology and Medicine</p>
	<p><b>Boosting Arabic Emotion Detection: Transformer Ensembles with Soft Voting</b>  <b>NU Authors:</b> Yousra Ahmed Samir, Ensaf Hussein Mohamed, Walaa Medhat  Source: 2025 International Conference on Machine Intelligence and Smart Innovation, ICMISI 2025 - Proceedings</p>
	<p><b>Building a Smart Academic Advising Chatbot with LLMs and Knowledge Graphs: A Case Study at Nile University</b>  <b>NU Authors:</b> Ganna Ayman, Hana Ehab, Mariam Alaa, Mariam Mohamed, Samaa Ahmed, Mohamed Ibrahim, Ensaf Hussein Mohamed  Source: 2025 International Conference on Machine Intelligence and Smart Innovation, ICMISI 2025 - Proceedings</p>
	<p><b>Circular RNAs orchestrating breast cancer hallmarks: bridging tumor biology and therapy resistance</b>  <b>NU Authors:</b> Abdelhamid M. Abdelhamid, Mai Ahmed Shafei, Mariam Gamaleldin, Alaa Bassam Heikal, Wesam H. Khidr, Nabil Al-Saadi, Ganna Magdy Kandil, Mahmoud M Omarn, M. Alhelf  Source: Functional and Integrative Genomics</p>
	<p><b>Companding quantization for deep neural networks</b>  <b>NU Authors:</b> Alaa Osama, Ahmed H. Madian  Source: Applied Soft Computing</p>










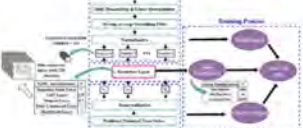


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	<p><b>Construction of an electrochemical sensor based on the electrodeposition of Pt nanoparticles on GPE for voltammetric determination of molnupiravir</b>  <b>NU Authors:</b> <a href="#">Alyaa I. Salim</a>, <a href="#">Samar H. Tawakey</a>  Source: Microchemical Journal</p>
	<p><b>Copper Chelation by Penicillamine Protects Against Doxorubicin-Induced Cardiomyopathy by Suppressing FDX1-Mediated Cuproptosis</b> <b>NU Authors:</b> <a href="#">M. Alhelf</a>  Source: Biomolecules</p>
	<p><b>CuO nanoparticle-enhanced electrochemical sensing of bromfenac in rabbit aqueous humor: a green analytical approach</b>  <b>NU Authors:</b> <a href="#">Loubna M. ElSharkawy</a>, <a href="#">Mariam Gamaleldin</a>  Source: Analytical Methods</p>
	<p><b>Deep Learning Approaches in EEG Signal Classification for P300 Brain Speller Development: A Comprehensive Analysis</b>  <b>NU Authors:</b> <a href="#">M. Esmat</a>, <a href="#">Mohamed Elgemeie</a>, <a href="#">Mohamed Sokar</a>, <a href="#">Heba Ali</a>, <a href="#">Sahar Selim</a>  Source: Lecture Notes in Networks and Systems</p>
	<p><b>Design, synthesis and biological evaluation of triazolo[1,5-a]pyrimidine derivatives as new antiproliferative agents with multikinase inhibitory activity</b>  <b>NU Authors:</b> <a href="#">Tamer M. Ibrahim</a>  Source: Bioorganic Chemistry</p>
	<p><b>Digital building logbook framework for energy efficiency and decarbonization using deep learning</b>  <b>NU Authors:</b> <a href="#">Emad. S. Bakhoun</a>  Source: Results in Engineering</p>
	<p><b>Dual-function TE modulator and TM-pass polarizer using VO2 phase changing material</b>  <b>NU Authors:</b> <a href="#">B. M.Younis</a>  Source: Physica Scripta</p>
	<p><b>Effects of electricity outages on enterprise productivity in Egypt: Lessons learned</b>  <b>NU Authors:</b> <a href="#">Hassan Youssef Aly</a>  Source: PLOS ONE</p>
	<p><b>EGYPTIAN ARTIFACTS' MATERIALS CLASSIFIER BASED ON LIGHTWEIGHT DEEP LEARNING ARCHITECTURES</b>  <b>NU Authors:</b> <a href="#">M. Esmat</a>, <a href="#">Kareem Moussa</a>, <a href="#">Retaj Yousri</a>, <a href="#">Salma Alwardany</a>, <a href="#">Mahmoud Wessam</a>, <a href="#">M. Saeed Darweesh</a>  Source: Egyptian Journal of Archaeological and Restoration Studies</p>
	<p><b>Electromagnetic Energy Generation Using Novel Generators for Bladeless Wind Turbines</b>  <b>NU Authors:</b> <a href="#">Karim Ahmed Kamal EL-Din</a>, <a href="#">Bahaa Aldeen Abo-Alnaga</a>, <a href="#">Mohamed Mahran Kasem</a>  Source: Journal of Aerospace Engineering</p>



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 <p>Empathetic AI for Mental Health: A Comparative Study of Retrieval-Augmented Language Models in CBT Applications</p> <p>Authors: Ahmed Yahia, Mohamed Bakry, Nada Radwan, Nourhan Yossef, Ahmed Amin, Ahmed Ibrahim, Noha Gamal Eldin Saad</p> <p>Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>	<p><b>Empathetic AI for Mental Health: A Comparative Study of Retrieval-Augmented Language Models in CBT Applications</b></p> <p><b>NU Authors:</b> Ahmed Yahia, Mohamed Bakry, Nada Radwan, Nourhan Yossef, Ahmed Amin, Ahmed Ibrahim, Noha Gamal Eldin Saad</p> <p>Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>
 <p>Enhanced robotic path planners utilizing fractional-order chaotic systems</p> <p>Authors: Wafaa Sayed, Menna M. Elnaggar, Mohamed Walid, Marwan A. Fetteha, Ahmed Radwan, Lobna A. Said</p> <p>Source: International Journal of Intelligent Robotics and Applications</p>	<p><b>Enhanced robotic path planners utilizing fractional-order chaotic systems</b></p> <p><b>NU Authors:</b> Wafaa Sayed, Menna M. Elnaggar, Mohamed Walid, Marwan A. Fetteha, Ahmed Radwan, Lobna A. Said</p> <p>Source: International Journal of Intelligent Robotics and Applications</p>
 <p>Enhancing Financial Inclusion Through Mobile Payment Technologies in Iraq: A Case Study of Iraqi Banks</p> <p>Author: Hebatalla Kaoud</p> <p>Source: ICONDBTM 2024 - Proceedings: International Conference on Digital Business and Technology Management</p>	<p><b>Enhancing Financial Inclusion Through Mobile Payment Technologies in Iraq: A Case Study of Iraqi Banks</b></p> <p><b>NU Authors:</b> Hebatalla Kaoud</p> <p>Source: ICONDBTM 2024 - Proceedings: International Conference on Digital Business and Technology Management</p>
 <p>Enhancing PFAS removal: feasibility of an integrated electrocoagulation and adsorptive membrane approach</p> <p>Authors: Rawan K. Hassan, Nabila A. Sallam, Khlood A. Alrefaey, Moamen A. Shekib, Nahla M. Salatein, Irene Samy</p> <p>Source: Discover Chemical Engineering</p>	<p><b>Enhancing PFAS removal: feasibility of an integrated electrocoagulation and adsorptive membrane approach</b></p> <p><b>NU Authors:</b> Rawan K. Hassan, Nabila A. Sallam, Khlood A. Alrefaey, Moamen A. Shekib, Nahla M. Salatein, Irene Samy</p> <p>Source: Discover Chemical Engineering</p>
 <p>Enhancing Photovoltaic Cell Quality Evaluation and Anomaly Detection Through Deep Learning</p> <p>Author: Mohamed M. M. Eisa</p> <p>Source: Lecture Notes in Networks and Systems</p>	<p><b>Enhancing Photovoltaic Cell Quality Evaluation and Anomaly Detection Through Deep Learning</b></p> <p><b>NU Authors:</b> Mohamed M. M. Eisa</p> <p>Source: Lecture Notes in Networks and Systems</p>
 <p>Ferrite-based nanomaterials for photocatalytic CO2 reduction: Synthesis, properties, and mechanistic insights</p> <p>Author: M. Abd Elkodous</p> <p>Source: Journal of CO2 Utilization</p>	<p><b>Ferrite-based nanomaterials for photocatalytic CO2 reduction: Synthesis, properties, and mechanistic insights</b></p> <p><b>NU Authors:</b> M. Abd Elkodous</p> <p>Source: Journal of CO2 Utilization</p>
 <p>Finite element study of posterior lumbar interbody fusion and pedicle screw fixation</p> <p>Author: Mai S. Mabrouk</p> <p>Source: Journal of Engineering and Applied Science</p>	<p><b>Finite element study of posterior lumbar interbody fusion and pedicle screw fixation</b></p> <p><b>NU Authors:</b> Mai S. Mabrouk</p> <p>Source: Journal of Engineering and Applied Science</p>
 <p>Forecasting Egyptian Stock Market Trends: A Comparative Framework Using Machine Learning, Time Series Analysis, and Deep Learning</p> <p>Authors: Omnia Elrashidy, Ensaf Hussein Mohamed</p> <p>Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>	<p><b>Forecasting Egyptian Stock Market Trends: A Comparative Framework Using Machine Learning, Time Series Analysis, and Deep Learning</b></p> <p><b>NU Authors:</b> Omnia Elrashidy, Ensaf Hussein Mohamed</p> <p>Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>
 <p>Fractional-order forcing nonlinear Duffing equations under integral boundary conditions: QLM-Lerch matrix collocation methodology</p> <p>Author: Waleed Adel</p> <p>Source: International Journal of Dynamics and Control</p>	<p><b>Fractional-order forcing nonlinear Duffing equations under integral boundary conditions: QLM-Lerch matrix collocation methodology</b></p> <p><b>NU Authors:</b> Waleed Adel</p> <p>Source: International Journal of Dynamics and Control</p>
 <p>Gated recurrent unit accelerators for financial time series prediction on field-programmable gate array</p> <p>Authors: Zeinab A. Hassaan, Mohammed H. Yacoub, Lobna A. Said</p> <p>Source: Engineering Applications of Artificial Intelligence</p>	<p><b>Gated recurrent unit accelerators for financial time series prediction on field-programmable gate array</b></p> <p><b>NU Authors:</b> Zeinab A. Hassaan, Mohammed H. Yacoub, Lobna A. Said</p> <p>Source: Engineering Applications of Artificial Intelligence</p>



# NU Publications on **Scopus** during October & November 2025

	<p><b>Genetic convergence and diversity: A comparative analysis of Egyptian autosomal STR profiles within global populations</b>  <b>NU Authors:</b> <a href="#">Sahar Ali Fawzi</a>  Source: Human Gene</p>
	<p><b>High-Entropy Alloys: Fundamental and Frontiers</b>  <b>NU Authors:</b> <a href="#">Mohamed A Afifi</a>  Source: High-Entropy Alloy Coatings: Fundamentals and Applications</p>
	<p><b>Imitation Learning for Obstacle Avoidance Using End-To-End CNN-Based Sensor Fusion</b>  <b>NU Authors:</b> <a href="#">Lamiaa H.Zain</a>, <a href="#">R. Shalaby</a>  Source: 2025 International Telecommunications Conference, ITC-Egypt 2025</p>
	<p><b>Machine Learning for Used Car Price Prediction in the Egyptian Market</b>  <b>NU Authors:</b> <a href="#">Mohamed Fawzy Elkholy</a>, <a href="#">Mohamed Adel Motea</a>, <a href="#">Mahmoud Amal</a>  Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>
	<p><b>Macrophage migration inhibitory factor (MIF) and the tumor ecosystem: a tale of inflammation, immune escape, and tumor growth</b>  <b>NU Authors:</b> <a href="#">Abdelhamid M. Abdelhamid</a>  Source: Frontiers in Immunology</p>
	<p><b>ML-Aided Traffic-Aware Base Station Sleep Threshold Design with User Throughput Guarantees</b>  <b>NU Authors:</b> <a href="#">Ayman Gaber</a>, <a href="#">Mohamed Mahmoud Zaki</a>  Source: Proceedings of the 11th IEEE International Conference on Network Softwarization, NetSoft 2025</p>
	<p><b>Modular post-hoc enhancements for zero-shot histopathology classification using vision-language models</b>  <b>NU Authors:</b> <a href="#">Shahd M. Noman</a>, <a href="#">Mayar Tarek Henedak Mustafa A. Elattar</a>  Source: Machine Learning: Science and Technology</p>
	<p><b>Non-Invasive Anemia Detection and Hemoglobin Level Prediction Using Machine Learning</b>  <b>NU Authors:</b> <a href="#">Seifeldin Ibrahim</a>, <a href="#">Abdulmoniem Mohamed</a>, <a href="#">Omar Abdulmonem</a>, <a href="#">Omar Tawfik</a>, <a href="#">Ahmed Abdelmonem</a>, <a href="#">Monier Lawande</a>, <a href="#">Ensaf Hussein Mohamed</a>  Source: 2025 International Conference on Machine Intelligence and Smart Innovation, ICMISI 2025 - Proceeding</p>
	<p><b>Numerical characterization of brain tumor density using a hybrid B-spline collocation approach</b>  <b>NU Authors:</b> <a href="#">Waleed Adel</a>  Source: International Journal of Dynamics and Control</p>
	<p><b>Numerical study of thermal performance for novel micro pin fin heat sink with opposing crescent-shaped configuration</b>  <b>NU Authors:</b> <a href="#">Mohamed Elshabrawy</a>  Source: International Journal of Thermal Sciences</p>


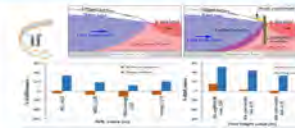

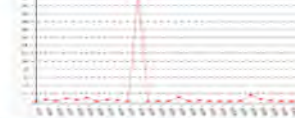
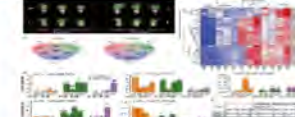
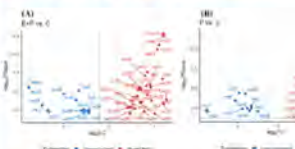



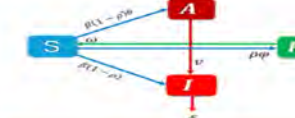


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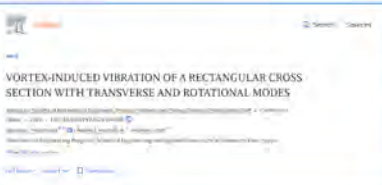
	<p><b>On the behavior of cascaded Gaussian impulse response filters</b>  <b>NU Authors:</b> <a href="#">Ahmed S. Elwakil</a>  Source: AEU - International Journal of Electronics and Communications</p>
	<p><b>On the behavior of distributed networks of fractional-order capacitors</b>  <b>NU Authors:</b> <a href="#">Ahmed S. Elwakil</a>  Source: Journal of Physics D: Applied Physics</p>
	<p><b>Optimization of absorption coefficient of quantum dot structures for infrared spectroscopy</b>  <b>NU Authors:</b> <a href="#">Mohamed I. Wafa</a>, <a href="#">Yasser M. El-Batawy</a>  Source: Scientific Reports</p>
	<p><b>Realization of multi-image encryption algorithm based on DNA and chaotic system on FPGA</b>  <b>NU Authors:</b> <a href="#">Nermeen H. Abdelzaher</a>, <a href="#">Mohammed H. Yacoub</a>, <a href="#">Lobna A. Said</a>  Source: Journal of Information Security and Applications</p>
	<p><b>Real-Time Violence Detection Across Domains: Evaluating Model Robustness in Varied Surveillance Contexts</b>  <b>NU Authors:</b> <a href="#">Mariam Ahmed Khorshid</a>, <a href="#">Ganna Essam Aly</a>, <a href="#">Maryam Ahmed Elabd</a>, <a href="#">Mennat Allah Khaled Kotb</a>, <a href="#">Ahmed F. El-Nokrashy</a>, <a href="#">Noha Gamal El-Din Saad</a>  Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>
	<p><b>Recovery of Bloodstain Deoxyribonucleic Acid on Different Fabrics after Washing in Cold and Hot Water and by Different Detergents</b>  <b>NU Authors:</b> <a href="#">M. Alhelf</a>  Source: Journal of Forensic Science and Medicine</p>
	<p><b>Refactoring TEZip: Integrating Python-Based Predictive Compression into an HPC C++/LibTorch Environment</b>  <b>NU Authors:</b> <a href="#">Mina Atef Yousef</a>  Source: HPDC 2025 - Proceedings of the 34th International Symposium on High-Performance Parallel and Distributed Computing</p>
	<p><b>Reinforcement learning-enhanced adaptive sliding mode control for nonlinear systems</b>  <b>NU Authors:</b> <a href="#">Omnia Youssef</a>, <a href="#">Mohamed I. Wafa</a>, <a href="#">R. Shalaby</a>  Source: Complex and Intelligent Systems</p>
	<p><b>Review of Antibody Structure Prediction-Based on Artificial Intelligence</b>  <b>NU Authors:</b> <a href="#">Mai S. Mabrouk</a>  Source: Archives of Computational Methods in Engineering</p>
	<p><b>Scaling Byzantine Consensus: A Sharded and Pipelined Approach for Permissioned Blockchains</b>  <b>NU Authors:</b> <a href="#">Mohamed Labib</a>, <a href="#">Heba Aslan</a>, <a href="#">Tamer Arafa</a>  Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>



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	<p><b>Smart Agriculture Clinic (SAC): A Transformative Technology-Based Solution to Agriculture Extension Problems in Egypt</b>  <b>NU Authors:</b> <a href="#">Mustafa A. Elattar</a>, <a href="#">Mohamed Elhelw</a>  Source: 3rd International Conference on Intelligent Methods, Systems and Applications, IMSA 2025</p>
	<p><b>Subsurface seawalls for sustainable coastal aquifers and inundation prevention under climate change and tidal waves impact</b>  <b>NU Authors:</b> <a href="#">Marmar Mabrouk</a>  Source: Journal of Ecohydraulics</p>
	<p><b>TEACHER ASSOCIATION LEADERSHIP IN LOW RESOURCE AND CRISIS CONTEXTS IN AFRICA: Adapting, Innovating and Repositioning as Leaders</b>  <b>NU Authors:</b> <a href="#">Amira Salama</a>  Source: Professional Learning and Development in Global Language Education</p>
	<p><b>Text mining Nahdawi discourses: topic modeling Taha Hussein's reformist legacy</b>  <b>NU Authors:</b> <a href="#">Eslam Hamzawy</a>  Source: Digital Scholarship in the Humanities</p>
	<p><b>Transcriptomic Regulation Analysis Reveals Salt-Induced Response at Early Seedling Stages among Three Rice Genotypes</b>  <b>NU Authors:</b> <a href="#">Mohamed Hazman</a>  Source: Rice Science</p>
	<p><b>Uncovering differential expressed long non-coding RNAs of wheat in response to the endophyte <i>Epicoccum italicum</i> HE20 and yellow rust infection</b>  <b>NU Authors:</b> <a href="#">Sameh E.Hassanein</a>  Source: Physiological and Molecular Plant Pathology</p>
	<p><b>Unlocking the African bioeconomy and strengthening biodiversity conservation through genomics and bioinformatics</b>  <b>NU Authors:</b> <a href="#">Asmaa M. Abushady</a>, <a href="#">Assem K. Elsherif</a>, <a href="#">Shaimaa Roshdy Abdullah Reda</a>  Source: NPJ Biodiversity</p>
	<p><b>Unraveling Early Molecular Signatures of Type 2 Diabetes: A Multi-Omics Integration Using MOFA+</b>  <b>NU Authors:</b> <a href="#">Mahmoud M. Omran</a>, <a href="#">Mohamed El-Hadidi</a>, <a href="#">Mustafa A. Elattar</a>  Source: 2025 International Conference on Machine Intelligence and Smart Innovation, ICMISI 2025 - Proceedings</p>
	<p><b>Unravelling novel microbial players in the breast tissue of TNBC patients: a meta-analytic perspective</b>  <b>NU Authors:</b> <a href="#">Hannah H. Rashwan</a>, <a href="#">Nour H.Marzouk</a>, <a href="#">Mohamed El-Hadidi</a>, <a href="#">Raghda Ramadan</a>, <a href="#">Mohamed Mysara</a>  Source:</p>
	<p><b>Unveiling Asymptomatic Transmission: Analytical and Stability Insights of a Fractional-Order COVID-19 Model</b>  <b>NU Authors:</b> <a href="#">Waleed Adel</a>  Source: Scientific African</p>

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	<p><b>Unveiling extended reality: a systematic review of use cases across industries</b></p> <p><b>NU Authors:</b> Kholoud Mahrous, ElHassan ElSabry,</p> <p>Source: Technology Analysis and Strategic Management</p>
	<p><b>Urban Kiosks</b></p> <p><b>NU Authors:</b> Shaimaa Emad, Nardine Khaled, Mirame Elsayed</p> <p>Source: A Manifesto for the Just City: Volume 4</p>
	<p><b>VORTEX-INDUCED VIBRATION OF A RECTANGULAR CROSS SECTION WITH TRANSVERSE AND ROTATIONAL MODES</b></p> <p><b>NU Authors:</b> Mahmoud Shaaban</p> <p>Source: American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP</p>