

September

Newsletter

2025

ISSUE#45



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“Education is for improving the lives of others and for leaving your community and world better than you found it.”

— Marian Wright Edelman

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News

1 September – Strengthening Ties: University of Bath Researchers at NISC

As part of the ongoing water management project, the Nanoelectronics Integrated Systems Center (NISC) at Nile University recently welcomed six researchers from the University of Bath, UK. The visit aimed to strengthen international collaboration through academic exchange and joint activities. During their stay, the researchers met with the NISC team, explored the university's laboratories, and shared insights on advancing innovative solutions for water management. The program also included cultural activities, making the visit both productive and enriching.



2 September – START Fellowship



The START Fellowship, in collaboration with Nile University, hosted an exciting Pitching Competition where 12 innovative projects were shortlisted. From these, three outstanding winners emerged, each receiving a fully funded semester at the University of St. Gallen, along with access to valuable mentorship, workshops, and a robust entrepreneurial network.

News

13 September – Dr. Mohamed Afifi Won Prof. Hazem Ezzat Award

Congratulations to Dr. Mohamed Afifi, Assistant Professor and Group Leader at the Smart Engineering Systems Research Center (SESC), on receiving the prestigious Prof. Hazem Ezzat Award for Outstanding Research Pillar during the graduation ceremony 2025. This award recognizes Dr. Afifi's exceptional contributions to research and his leadership in advancing innovation within the field of engineering. His achievements continue to reflect the strong spirit of excellence and dedication at Nile University.



We are proud to celebrate Dr. Afifi's success and look forward to his future contributions in shaping impactful research and inspiring the next generation of engineers.

24 September – Zayed University in Dubai, SRC2025 Conference

Nile University participated in the SRC2025 Conference hosted by Zayed University in Dubai, presenting impactful research across artificial intelligence, knowledge graphs, language models, and smart systems.

Under the supervision of Dr. Ghada Khoriba and Dr. Noha Gamal Eldin Saad, students and faculty presented the following papers:

- AI-Driven Question Generation System: Benchmarking Large Language Models for Examination Systems
- AI-Powered Conference Recommendation: Fine-Tuning Language Models for Context-Aware Academic Support
- A Transformer-Driven Bilingual Approach to Arabic Text Summarization
- Enhancing Traffic Situational Awareness: Knowledge Graph and Vision-Language Model Integration for Egyptian Roadways
- GraphSelect: Advancing Research Paper Semantic Search with Embedding and Knowledge Graphs
- MindHaven: Retrieval-Augmented Large Language Models for AI-Powered Mental Health Support



These projects, developed through graduation projects, academic research, and internships, highlight the creativity and dedication of Nile University's students and researchers.

Nile University received two Best Workshop Paper Awards and the Zayed University Trophy for Active Participation, recognizing the excellence and impact of its research contributions. This achievement reflects the university's ongoing commitment to innovative, practical, and globally relevant research. Nile University Team Wins Second Place in Assistive Technologies Summer Program 2025.



News

25 September – Bridging Continents Through Science: Dr. Lobna Joined the U.S.-Africa Frontiers Fellowship

We are proud to share that Dr. Lobna Said, Associate Professor and MSD Program Director at Nile University, has successfully completed the prestigious U.S.-Africa Frontiers Fellowship, awarded by the U.S. National Academy of Sciences.

This fellowship brought together leading researchers from across Africa and the United States to foster interdisciplinary dialogue, collaboration, and knowledge exchange. Dr. Lobna participated alongside distinguished colleagues, whose expertise added depth to the fellowship experience.

As part of the program, Dr. Lobna spent two weeks at Michigan State University (MSU), engaging in research discussions and collaborative activities that strengthened international scientific networks.

Congratulations Dr. Lobna on this remarkable achievement!



27 September – Empowering Women Engineers: Dr. Irene Samy Leads IEEE WIE Session in Cairo

Dr. Irene Samy, Associate Professor and Director of the Smart Engineering Systems Research Center (SESC), led the IEEE Women-in-Engineering (WIE) Session during the IEEE Power Africa Conference 2025 in Cairo.

As Chair of IEEE Power Africa, Dr. Samy played a key role in guiding the discussions and engaging participants in a dynamic session dedicated to empowering women in engineering under the theme “Inspire... Empower... Advance.”

The session served as an important platform for sharing insights, fostering collaboration, and highlighting initiatives that support women’s leadership and innovation in STEM fields.

Dr. Samy’s contribution demonstrated her ongoing commitment to advancing women in engineering and to driving forward the mission of the Smart Engineering Systems Research Center (SESC) at Nile University.



EVENTS



Events

3 September - Class of 2025 Photo Day

Nile University celebrated Photo Day for the Class of 2025, a joyful occasion filled with smiles, laughter, and unforgettable memories. Graduates gathered with their families and friends to capture this milestone through memorable shots and group photos. The day was not only about pictures, but also about celebrating their hard work, achievements, and the bonds they've built throughout their journey at NU.

It was a heartwarming event where joy, pride, and excitement filled the campus as our graduates embraced this special moment together. Congratulations to the Class of 2025! May these memories stay with you forever as you step into a bright and successful future. A warm thanks goes to the SEEC Office, Ms. Ahd, and her dedicated team for their support in organizing such a wonderful day.



9 September – Next-Gen Health Intelligence in Egypt Workshop and Nile BioMed Tank 2025



Nile University successfully hosted the 2nd annual workshop on “Biomedical Informatics: Driving the Future of Healthcare Innovation” on 9 and 10 September 2025, bringing together researchers, healthcare professionals, and industry leaders.

The two-day program opened on Tuesday, 9 September, with keynote remarks from leading figures in academia and healthcare, followed by a rich agenda of sessions and panel discussions that explored AI in radiology, precision imaging, smart health in the cloud, IoT, neuroinformatics, and brain–computer interfaces.

Running alongside the workshop was Nile BioMed Tank, an innovation-driven forum inspired by “Shark Tank.” This event brought together students, researchers, healthcare innovators, and industry leaders who pitched transformative ideas in biomedical informatics, AI, digital health, computational biology, drug discovery, smart hospital systems, and wearable healthcare technologies. Top graduation projects from 2024 and 2025 were presented to a panel of experts for mentorship, feedback, and potential collaboration or funding.

Events

13 September – NU's Graduation Ceremony 2024–2025!

We celebrated our graduating class of 2025 in a day filled with joy, pride, and unforgettable memories. Behind the seamless flow of this grand event stood SEEC, ensuring every detail for the graduating students was organized to perfection.



From the march-in and seating arrangements to smooth transitions on stage, our NU teams worked diligently to create a memorable and stress-free experience for the graduates. We are thrilled to have achieved just that.

A special thanks goes to our dedicated ushers, whose tireless support and teamwork were the backbone of this event's success. Their commitment and patience helped maintain flawless organization throughout the day.

We extend our heartfelt gratitude to every team member, colleague, and supporter who contributed to making this day truly remarkable. Together, we celebrated our students' achievements and showcased the power of collaboration and community spirit.

20 September – Parents' Orientation

As a part of Nile University's commitment to building strong connections with both students and their families, SEEC (Skills and Employability Enhancement Center) actively launched the Parents Orientation.

During the day, SEEC introduced parents to the wide array of services and programs we provide to help students develop their employability skills, explore career paths, and connect with industry opportunities. Parents engaged in interactive activities, giving them valuable insights into how SEEC supports their children's journey from university to workplace.

Our goal was to ensure parents feel reassured that their sons and daughters will not only gain strong academic knowledge at Nile University but also receive career readiness support that will enhance their skills, confidence, and employability.



STUDENT LIFE



Student Life

17 September – Orientation Day Class of 2025-2026



Nile University hosted its Freshmen Orientation on September 17th and 18th, welcoming the newest members of our vibrant community. Orientation Day 1, we welcomed our Engineering and Bio-technology students, which was packed with energy and excitement!

From campus tours and engaging sessions to meeting classmates and faculty, the day marked the beginning of an inspiring journey for our new students. Orientation Day 2 continued with the same enthusiasm as we welcomed our Business and Computer Science students — the future innovators, leaders, and changemakers.

The Skills and Employability Enhancement Center (SEEC) also welcomed our newest students with engaging activities designed to introduce them to the Center's services. Through interactive sessions featuring live word clouds and quizzes, SEEC encouraged freshmen to share their expectations and career aspirations, while showcasing a wide array of support services, including resume reviews, mock interviews, internship opportunities, career guidance and more!

It was a day filled with networking opportunities, community building, and the first taste of NU's dynamic student life. A special thanks goes to the Student Recruitment Office, Mrs. Asmaa and Mrs. Nihal, along with their dedicated student ambassadors, for their tremendous efforts in making these two days a success. Here's to an amazing start and a bright future ahead for all our new students at Nile University!

22 September - NU Student Wins First Place in National Tennis Tournament



Nile University is proud to celebrate the outstanding achievement of our student Ali Amr, who secured First Place in the Men's Category at the National Tennis Tournament, held last week at the Arab Contractors Club.

Ali's remarkable dedication, perseverance, and talent on the court reflect the true spirit of excellence that we strive for at NU. His victory not only highlights his personal commitment but also brings pride and inspiration to the entire NU community. Congratulations, Ali, on this well-deserved success! We look forward to seeing many more of your achievements in the future.

Student Life

30 September – NU Student Scores Bronze Medal at the African Triathlon Championship



We are proud of our student Abdullah Mohamed Ramzy on his remarkable achievement, securing 3rd place and the bronze medal at the African Triathlon Championship. The challenging race consisted of 2,500 meters of running, followed by 1,000 meters of swimming, and concluded with another 2,500 meters of running. Abdullah's dedication, strength, and perseverance truly embody the spirit of Nile University athletes.

Congratulations Abdullah, on this outstanding accomplishment.

ACHIEVEMENTS



«أر إي إي جي» Areeg: مجموعة بيانات تدعم تطبيقات واجهات التفاعل الشماخي الحاسوبية العربية

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هذا هو رأي المؤلفين، وليس رأي جامعة القاهرة، ولا وزارة التعليم العالي، ولا المجلس الأعلى للدراسات والبحوث.

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Figure 1 consists of two parts. The left part shows a 3D model of a head with an EEG cap and a top-down view of the cap with electrode locations. The right part shows a circular diagram of electrode locations with a color-coded legend for different electrode types.



The program was organized by the National Academy of Information Technology for Persons with Disabilities, led by Dr. Abdel Moneim El Sharkawy, and held under the patronage of Dr. Amr Talaat, Minister of Communications and Information Technology.

Students competed across four specialized tracks: Mechanical Design, Biomedical Engineering, Extended Reality, and Computer Vision, developing innovative assistive technology solutions. This national recognition highlighted the creativity, innovation, and dedication of Nile University's students and their commitment to advancing assistive technologies that empowered persons with disabilities across Egypt.

Congratulations to the NU team!



Alumni

3 September – IOM / Y-Med, Nile University Graduate Joins Y-MED Program Abroad!

At SEEC, we are always proud to celebrate the success of our students and graduates who turn opportunities into achievements. We are thrilled to spotlight Mohamed Emad, a Nile University graduate who successfully began his international internship in July 2025 through our partnership with the International Organization for Migration (IOM) under the Y-MED project.

Mohamed's journey is a testament to the value of international collaboration and the mission we share with Y-MED: empowering Egyptian youth through sustainable employment opportunities abroad. His dedication and resilience exemplify the kind of global impact Nile University graduates are capable of achieving.

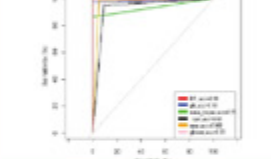
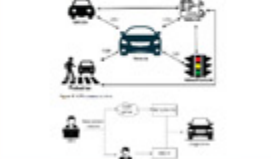
We extend our gratitude to IOM and the Y-MED project team for making this opportunity possible and for their continued commitment to supporting NU students and graduates. This partnership opens doors, broadens horizons, and reaffirms our role in bridging the gap between academic excellence and global employability.



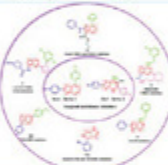
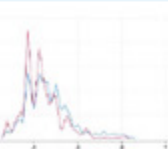
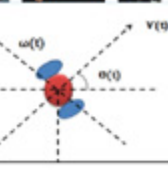
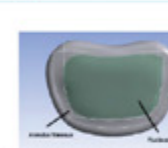
PUBLICATIONS



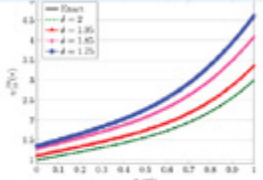
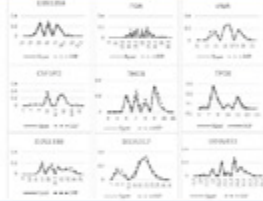
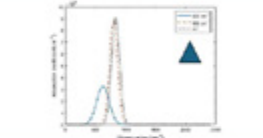
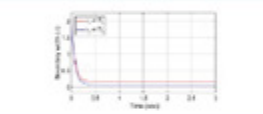
NU Publications on Scopus during Sep. 2025

	A comprehensive landscape of AI applications in broad-spectrum drug interaction prediction: a systematic review NU Author: Nour H. Marzouk, Sahar Selim, Mustafa A. Elattar, Mai S. Mabrouk, Mohamed Mysara Source: Journal of Cheminformatics
	A deep generative approach to cancer prognosis: MMD-VAE for multi-omics data fusion NU Author: Mai S. Mabrouk Source: Network Modeling Analysis in Health Informatics and Bioinformatics
	A Hybrid Human-AI Model for Enhanced Automated Vulnerability Scoring in Modern Vehicle Sensor Systems NU Author: Mohamed Sayed Farghaly, Heba Kamal Aslan, Islam Tharwat AbdelHalim Source: Future Internet
	A Purely Meshless Penalty 2D Formulation for Navier-Stokes Equations NU Author: Ahmed M. M.Hasan Source: International Journal for Numerical Methods in Fluids
	ArEEG: an Open-Access Arabic Inner Speech EEG Dataset NU Author: Yousef A. Radwan Source: Scientific Data
	Benchmarking vision-language models for brain cancer diagnosis using multisequence MRI NU Author: Ghada Khoriba Source: Informatics in Medicine Unlocked
	Boosting Arabic Emotion Detection: Transformer Ensembles with Soft Voting NU Author: Ensaf Hussein Mohamed, Walaa Mohamed Medhat Source: 2025 International Conference on Machine Intelligence and Smart Innovation, ICMISI 2025 - Proceedings
	Building a Smart Academic Advising Chatbot with LLMs and Knowledge Graphs: A Case Study at Nile University NU Author: 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
	Construction of an electrochemical sensor based on the electrodeposition of Pt nanoparticles on GPE for voltammetric determination of molnupiravir NU Author: Samar H. Tawakey Source: Microchemical Journal

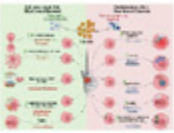
NU Publications on Scopus during Sep. 2025

	CuO nanoparticle-enhanced electrochemical sensing of bromfenac in rabbit aqueous humor: a green analytical approach NU Author: Loubna M. Elsharkawy, Mariam Gamaeldin Source: Analytical Methods
	Design, synthesis and biological evaluation of triazolo[1,5-a]pyrimidine derivatives as new antiproliferative agents with multikinase inhibitory activity NU Author: Tamer M. Ibrahim Source: Bioorganic Chemistry
	Dual-function TE modulator and TM-pass polarizer using VO2 phase changing material NU Author: B. M. Younis Source: Physica Scripta
	Effects of electricity outages on enterprise productivity in Egypt: Lessons learned NU Author: Hassan Youssef Aly Source: PLOS ONE
	Egyptian Artifacts' Materials Classifier Based On Lightweight Deep Learning Architectures NU Author: Kareem Moussa, Retaj Yousri, M. Saeed Darweesh Source: Egyptian Journal of Archaeological and Restoration Studies
	Enhanced robotic path planners utilizing fractional-order chaotic systems NU Author: Menna M. Elnaggar, Mohamed Walid, Marwan A. Fetteha, Lobna A. Said, Ahmed Radwan Source: International Journal of Intelligent Robotics and Applications
	Enhancing Financial Inclusion Through Mobile Payment Technologies in Iraq: A Case Study of Iraqi Banks NU Author: Hebatalla Kaoud Source: ICONDBTM 2024 - Proceedings: International Conference on Digital Business and Technology Management
	Ferrite-based nanomaterials for photocatalytic CO2reduction: Synthesis, properties, and mechanistic insights NU Author: M. Abd Elkodous Source: Journal of CO2 Utilization
	Finite element study of posterior lumbar interbody fusion and pedicle screw fixation NU Author: Mai S. Mabrouk Source: Journal of Engineering and Applied Science

NU Publications on Scopus during Sep. 2025

	Fractional-order forcing nonlinear Duffing equations under integral boundary conditions: QLM-Lerch matrix collocation methodology NU Author: Waleed Adel Source: International Journal of Dynamics and Control
	Genetic convergence and diversity: A comparative analysis of Egyptian autosomal STR profiles within global populations NU Author: Sahar Fawzi Source: Human Gene
	Higher Order Sliding Mode Control for Blood Glucose Regulation of Type 1 Diabetic Patients NU Author: Ahmad Taher Azar Source: Biotechnology: Concepts, Methodologies, Tools, and Applications
	ML-Aided Traffic-Aware Base Station Sleep Threshold Design with User Throughput Guarantees NU Author: Ayman Gaber, Mohamed Zaki Source: Proceedings of the 11th IEEE International Conference on Network Softwarization, NetSoft 2025
	Modular post-hoc enhancements for zero-shot histopathology classification using vision-language models NU Author: Shahd Noman, Mayar Henedak, Mustafa A. Elattar Source: Machine Learning: Science and Technology
	Non-Invasive Anemia Detection and Hemoglobin Level Prediction Using Machine Learning NU Author: Seifeldin Ibrahim, Abdulmoniem Mohamed, Omar Abdulmonem, Omar Tawfik, Ahmed Abdelmonem, Monier Lawande, Ensaf H. Mohamed Source: Proceedings of the 11th IEEE International Conference on Network Softwarization, NetSoft 2025
	Optimization of absorption coefficient of quantum dot structures for infrared spectroscopy NU Author: Mohamed I. Wafa, Yasser M. El-Batawy Source: Scientific Reports
	Reinforcement learning-enhanced adaptive sliding mode control for nonlinear systems NU Author: Omnia Youssef, Mohamed I. Wafa, Raafat Elsayed Shalaby Source: Complex and Intelligent Systems
	Teacher association leadership in low resource and crisis contexts in africa: adapting, innovating and repositioning as leaders NU Author: Amira Salama Source: Professional Learning and Development in Global Language Education
	Unraveling Early Molecular Signatures of Type 2 Diabetes: A Multi-Omics Integration Using MOFA+ NU Author: Mahmoud M. Omran, Mustafa A. Elattar, Mohamed S. El-Hadidi Source: 2025 International Conference on Machine Intelligence and Smart Innovation, ICMISI 2025 - Proceedings

NU Publications on **Scopus** during Sep. 2025

	Unravelling novel microbial players in the breast tissue of TNBC patients: a meta-analytic perspective NU Author: Hannah Hisham Rashwan, Nour H. Marzouk, Mohamed S. El-Hadidi, Mohamed Mysara Source: npj Biofilms and Microbiomes
	Unveiling Asymptomatic Transmission: Analytical and Stability Insights of a Fractional-Order COVID-19 Model NU Author: Waleed Adel Source: Scientific African
Urban Kiosks A Manifesto for the Just City, Volume 4 • Book Chapter • 2025 Khaled, Shaimaa Emad, Nardine Khaled, Mirame Elsayed New University, Cairo, Egypt Show all information	Urban Kiosks NU Author: Shaimaa Emad, Nardine Khaled, Mirame Elsayed Source: A Manifesto for the Just City: Volume 4