

July

Newsletter

2025

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“The measure of greatness in a scientific idea is the extent to which it stimulates thought and opens up new lines of research.”

— Paul Dirac

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ACHIEVEMENTS



Achievements

Academy of Scientific Research and Technology: Congratulations Dr Mysara!

We are proud to celebrate the outstanding achievement of Dr. Mohamed Mysara, Associate Professor at the School of information technology and Computer Science and Director of Biomedical Informatics Programs at Nile University, on receiving the State encouragement Award in Advanced Technological Sciences Serving Medical Fields, presented by the Academy of Scientific Research and Technology.

Dr. Mysara's remarkable journey—from earning his B.Sc. in Pharmaceutical Sciences at Cairo University, to winning Best Dissertation during his M.Sc. at the University of Nottingham and earning his Ph.D. in Belgium—reflects a commitment to research excellence. His contributions to biomedical informatics and metagenomics have earned him recognition both locally and internationally.

A truly well-deserved honor, and an inspiration to the NU community. Congratulations to Dr. Mohamed Mysara!



Congratulations to Our Science Diplomacy Ambassadors



We are proud to celebrate Dr. Loban Said, Associate Professor and Program Director of the Microelectronics System Design (MSD) Program at Nile University, for her outstanding achievement in being selected to participate in the 12th AAAS-TWAS Course on Science Diplomacy, held in Trieste, Italy. Chosen as one of only 10 pairs out of over 400 global applicants.

This prestigious program, organized by the American Association for the Advancement of Science (AAAS) and The World Academy of Sciences (TWAS), brought together emerging leaders from around the world to explore the powerful intersection of science and diplomacy. Through keynote lectures, negotiation simulations, and in-depth discussions, participants tackled pressing global challenges such as climate change, food security, and biodiversity loss, all framed within the UN Sustainable Development Goals (SDGs).

Achievements

Project Advances to the Finals of the 2024 Startup Olympiad (Researchers Track)

We are proud to announce that the research project titled “Ecofriendly Painting Production Line for Steel Structures”, under the supervision of Dr. Irene Samy, Director of the Smart Engineering Systems Research Center at Nile University, has successfully qualified for the final round of the 2024 Startup Olympiad – Researchers Track, organized by the Innovators Support Fund (ISF).

The project’s outstanding performance in the regional qualifiers showcased a high level of innovation, research excellence, and potential impact, reflecting the strength of applied research and mentorship at Nile University. As the team moves on to the final stage, they will participate in a virtual preparatory training camp designed to refine their project and align it with the final evaluation standards.



We extend our sincere congratulations to Dr. Irene Samy for this outstanding achievement. We look forward to seeing the project’s continued success and contribution to sustainable innovation in Egypt.

Nile University shortlisted as a finalist in two prestigious categories at the Triple-e awards organized by (ACEEU).

We are thrilled to share that Nile University has been shortlisted as a finalist in two prestigious categories at the Triple-e awards organized by the Accreditation Council for Entrepreneurial and Engaged Universities (ACEEU).

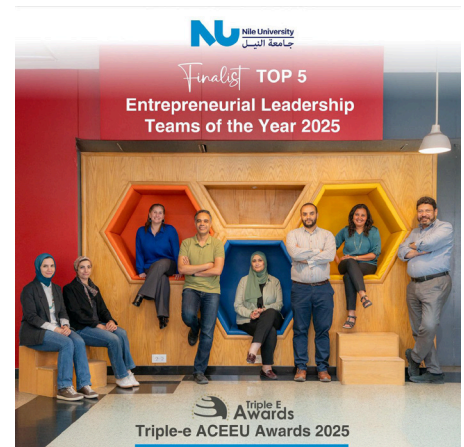
• Entrepreneurial University of the Year 2025

Recognizing Nile University’s commitment to pioneering innovation across education, research, and societal engagement, shaping a dynamic ecosystem that drives real-world solutions and fosters future-ready graduates.

• Entrepreneurial Leadership Team of the Year 2025

Honoring the strategic foresight, entrepreneurial mindset, and cross-sector collaboration of Nile University’s leadership team in advancing institutional transformation and sustainable innovation.

These nominations reflect our ongoing commitment to innovation, excellence, and ecosystem development. Final winners will be announced in the Triple-e awards ceremony in Prague in September!



EVENTS



Events

Fifth Batch of the NUSCE English Enhancement Program

The school of continuing Education started batch #5 of the NUSCE English Enhancement Program. The program is designed to improve students' English language skills, particularly for academic purposes, before they begin their university studies or for personal growth. It provides a fun and immersive environment for our course participants to develop their communication skills. It utilizes a unique blend of experiential learning, edutainment, and gamified activities. This approach allows children to practice English in a real-world context, making the learning process engaging and effective. Learners actively participate in collaborative activities like projects, presentations, and group discussions, fostering critical thinking and communication skills.



The Nile Ritz-Carlton Cairo Hotel: SCE Participates in The 7th Green Economy Forum



The 7th Green Economy Forum, entitled “The Transition C-Panel” is under the patronage of the Ministry of Environment, Ministry of Finance, Ministry of Trade & Industry, Ministry of Housing, Utilities and Urban Communities, and Ministry of Social Solidarity.

This year's forum brings together a dynamic and influential network of green economy stakeholders, including business leaders, government representatives, policy makers, investors, ESG and sustainability experts, regional and international organizations, SMEs, innovators, and entrepreneurs. Our goal is to foster meaningful dialogue and bridge the gaps across sectors to accelerate the green transition.

Events

Nile University: NU Summer Camp!



At School of continuing Education - Nile University's Summer Camp, it's not just about fun, it's about building the future! From curious coders to future astronauts, young entrepreneurs, Programming and AI pioneers We're helping kids dream big, learn smart, and grow confident. What's still coming up? AI Bootcamp for Young Inventors, Future Astronauts Program, Programming & Character-Building Young Entrepreneurs! Give your child a summer filled with new friends, real-life skills, and unforgettable memories.

Nile University Grand Open House



Nile University hosted its highly anticipated Open House event; opening the door for 600 interested students and parents. From inspiring talks, hands-on activities, and academic deep dives to student-led campus tours and a vibrant NU bazaar, the energy was unmatched!

A key highlight of the day was the vibrant participation of over 10 student clubs, each showcasing their unique identity, achievements, and activities. From academic and cultural clubs to performing arts and community service groups, NU clubs played an essential role in representing student life and engaging with prospective students. Through interactive booths, performances, and live demonstrations, the clubs offered visitors a glimpse into the dynamic extracurricular life at Nile University.

Adding to the lively atmosphere was a special Mini Bazar, where students with their own small businesses displayed and sold their products—ranging from handmade crafts to delicious treats—celebrating youth entrepreneurship.

The event reflected the spirit, talent, and diversity of the NU student community.

Events

Nile University: The 3rd annual ARUD Exhibition is now open

We're thrilled to announce that the 3rd annual ARUD Exhibition is now open, showcasing the incredible creativity and talent of our Architecture and Urban Design students. With esteemed guests like former President Prof. Tarek Khalil and Governor Dr. Khaled Abdelhalim in attendance, the event emphasizes the vital link between academia and local government in building sustainable urban futures.



Explore cutting-edge projects that reflect innovative teaching and multi-disciplinary education, enhancing our graduates' employability in architecture and urban design. This exhibition is a celebration of our students' pursuit of excellence and innovation.

Join us at the Tarek Khalil Building here at Nile University until August 15th for an immersive experience that celebrates excellence and innovation!

BYF Fair at Gernata Palace!

The SR Team met incredible students and parents, shared insights on our programs and scholarships, and answered all their questions face-to-face.



Discovery Tours

We continue to offer discovery tours on Mondays and Wednesday. Students had the chance to talk with faculty members and have a guided tour led by NU Ambassadors!



Major Tryout Week- Summer Edition

After the previous success, major tryout was once again offered for high schoolers to spend a day in their dream major. This time, students had the chance to attend 9 different majors. It was a real hit!



NU AT IG Club Fair

We had a fantastic time meeting brilliant students, answering their questions, and sharing what makes Nile University the right place for future changemakers. It was a long, but fruitful day at the Crowne Plaza Hotel.



NU ALUMNI



NU Alumni

Introducing: NU Alumni Chapters – Stay Connected, Wherever You Are!

We're excited to launch a new initiative: NU Alumni Chapters – designed to bring our alumni community closer together, no matter where life takes you!

The NU Alumni Chapters aim to build localized networks of Nile University graduates across different cities, countries, and professional sectors. Whether you're abroad, across the country, or in a specific field of expertise, these chapters will help you stay connected, collaborate, support one another, and represent NU with pride.

BECOME A
**CHAPTER
LEADER**
FOR NU ALUMNI

Each chapter will organize networking meetups, career support sessions, knowledge-sharing opportunities, and more – all led by passionate alumni volunteers.

Be part of shaping this new journey.

If you're interested in starting or joining a chapter in your area or industry, reach out to the Alumni Office today!

Let's grow stronger together – one chapter at a time.

Alumni Give Back: Sharing Their NU Journey at the July Open House.

On July 16th, Nile University proudly hosted its highly anticipated Open House, welcoming high school students and their families to explore our vibrant campus and community. The day was filled with inspiration, discovery, and student-led energy—and among the highlights was the participation of several NU alumni who generously returned to campus to share their personal experiences as former students.

Their stories gave prospective students a genuine glimpse into life at Nile University—from academic growth and campus life to career paths after graduation. Their words resonated deeply with attendees, offering encouragement and real-world perspective to those considering their next educational step.

We extend our heartfelt thanks to our alumni for their time, insights, and continued support. Your presence made the event even more special, and we're proud to see you leading by example in giving back to the NU community.

Note: Kindly note that we have not yet received any photos from the Open House event held on July 16th. It would be greatly appreciated if you could reach out to your photography team and ask them to share the event photos with you

NU Alumni

Alumnus Spotlight: Osama Abdelaal

We're proud to announce that Osama Abdelaal, who earned his Executive MBA in 2015, has launched Ofx Trading Systems as its Founder and lead Algorithmic Forex & Crypto Trader.

With 26 years of leadership in sales operations, digital transformation, and customer-service delivery across the Middle East, Osama has:

- Built and led high-performing teams
- Scaled digital ecosystems
- Driven a 400% increase in eCommerce revenue
- Achieved a 90% reduction in operational costs



After a distinguished corporate career—serving most recently as VP of Sales Operations & Consumer Service Delivery at Etisalat and previously as VP of Channel Management & Operations at du—Osama has turned his executive expertise toward entrepreneurship in the financial markets. Through Ofx Trading Systems, he designs and delivers intelligent trading-automation tools for retail and prop-firm traders, combining strategic vision with algorithmic precision.

Today, Osama leads product strategy, community engagement, and long-term growth at Ofx, collaborating with top-tier developers to bring proven trading systems to life in both Forex and cryptocurrency markets.

Join us in congratulating Osama on this exciting new chapter!

NU Alumni

Alumni Spotlight: Dr. Mohammed Abd Elaziz

We're proud to highlight the achievements of our distinguished alumnus, Dr. Mohammed Abd Elaziz, who earned his Ph.D. in Management of Technology in 2023. Dr. Abd Elaziz is currently serving as Solutions Director and GIS Consultant at Quality Standards for Information Technology (QSIT), bringing in over 23 years of experience in the field.



With a career that began in 2001, Dr. Abd Elaziz has contributed to numerous landmark projects in Egypt, working closely with SMEs, large enterprises, governmental entities, and NGOs. For the past 12 years, he has held leadership roles focused on developing and promoting GIS and BIM-based solutions across various sectors. His mission remains centered on delivering customer value through strategic consultation and solution-driven guidance.

In addition to his professional contributions, Dr. Abd Elaziz is passionate about knowledge sharing and capacity building. He recently launched two free courses in collaboration with MaharaTech – ITIMooCa, a platform under the Information Technology Institute (ITI):

- GIS Principles and Techniques

A beginner-friendly course that simplifies the fundamentals of Geographic Information Systems, tailored for those looking to specialize in this essential technology.

- Knowledge Management for Work Teams

Designed for teams in organizations of all sizes, this course introduces practical knowledge management practices to improve performance and collaboration.

Both courses are freely available and demonstrate his ongoing commitment to empowering others through education and technology.

We celebrate Dr. Mohammed Abd Elaziz not only for his professional excellence but also for his efforts to give back and support the growth of future innovators.

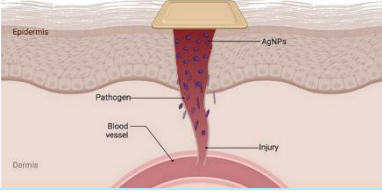
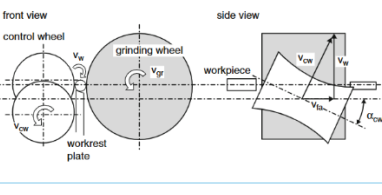
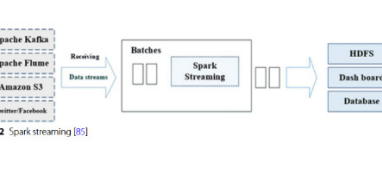
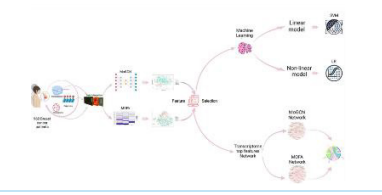

PUBLICATIONS



NU Publications on Scopus during July 2025

<p> Journal of Molecular Structure Volume 1346, 5 December 2025, 142267</p> <p>A green spectrophotometric method for daclatasvir analysis: Ion-associate formation and theoretical validation</p> <p>ibrahim H. Mohamed ^{a, b}, Aida L. El-Anany ^a, Ahmad I. Mahmoud ^a, Samir A. Abdel-Latif ^a, Alyaa I. Salim ^{a, b}</p> <p>Show more</p>	<p>A green spectrophotometric method for daclatasvir analysis: Ion-associate formation and theoretical validation</p> <p>NU Authors: Alyaa I. Salim</p> <p>Source: Journal of Molecular Structure</p>
<p>FIGURE 1. Summary of the summarization methods</p>  <p>Traditional Methods Transformers</p>	<p>A Review of Arabic Text Summarization: Methods, Datasets, and Evaluation Metrics, With a Proposed Solution</p> <p>NU Authors: Zeyad Ezzat, Ghada Khoriba</p> <p>Source: IEEE Access</p>
<p>A Two-Phase Deep Learning Approach for Architectural Distortion Detection in Mammograms</p> <p>Published: 25 July 2025 (2025) Cite this article</p> <p>Samah E. Ibrahim , Mai S. Mabrouk, Wael A. Mohamed & Ahmed F. Elnokrashy </p>	<p>A Two-Phase Deep Learning Approach for Architectural Distortion Detection in Mammograms</p> <p>NU Authors: Mai S. Mabrouk, Ahmed F. Elnokrashy</p> <p>Source: Journal of Imaging Informatics in Medicine</p>
	<p>Advancements in Radiology Report Generation: A Comprehensive Analysis</p> <p>NU Authors: Dima Mamdouh, Mariam Attia, Mohamed Osama, Nesma Mohamed, Abdelrahman Lotfy, Tamer Arafa, Ghada Khoriba</p> <p>Source: Bioengineering</p>
	<p>Advancements in real-time road damage detection: a comprehensive survey of methodologies and datasets</p> <p>NU Authors: Salma H. Abdelwahed, Bishoy K. Sharobim, Bishoy Wasfey, Lobna A. Said</p> <p>Source: Journal of Real-Time Image Processing</p>
 <p>(a) Structural Formula of Caffeine (b) Graph Representation of</p>	<p>Advancing ADMET prediction for major CYP450 isoforms: graph-based models, limitations, and future directions</p> <p>NU Authors: Asmaa A. Abdelwahab, Mustafa A. Elattar, Sahar Ali Fawzi</p> <p>Source: BioMedical Engineering Online</p>
	<p>Advancing Seismic Performance: Experimental Behavior of Hybridized Steel-FRP Composite Bars</p> <p>NU Authors: Ahmed M. Ahmed</p> <p>Source: Civil Engineering Journal (Iran)</p>
<p>An Efficient Hybrid Infrastructure for AI Healthcare System: Skin Cancer Classification</p> <p>Proceedings of the 12th International Japan-Africa Conference on Electronics, Communications, and Computations, JAC-ECC 2024 • Conference Paper • 2024 • DOI: 10.1109/JAC-ECC54419.2024.11581041 </p> <p>Elmeligy, Mohamed [*], Ezzat, Abdelrahman [*], Mabrouk, Wael [*], Moustafa, Salim [*], Darweesh, M. Saeed [*]</p> <p>[*]Nile University, School of Engineering and Applied Sciences, Giza, 12671, Egypt</p> <p>Show all information</p>	<p>An Efficient Hybrid Infrastructure for AI Healthcare System: Skin Cancer Classification</p> <p>NU Authors: Mohamed Elmeligy, Abdelrahman Ezzat, Mazen Mobtasem, Salma Moustafa, M. Saeed Darweesh</p> <p>Source: Proceedings of the 12th International Japan-Africa Conference on Electronics, Communications, and Computations, JAC-ECC 2024</p>

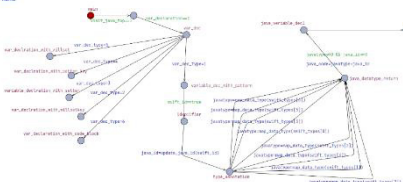

NU Publications on Scopus during July 2025

<p>Home > Artificial Intelligence Applications and Innovations > Conference paper</p> <p>Assessing Deep Learning Challenges in Lightweight AES Cryptanalysis</p> <p>Conference paper · First Online: 25 June 2025 pp 60–74 Cite this conference paper</p>	<p>Assessing Deep Learning Challenges in Lightweight AES Cryptanalysis</p> <p>NU Authors: Omar Said, Nada Ismail, Sama Yousef, Noha Gamal</p> <p>Source: IFIP Advances in Information and Communication Technology</p>
	<p>Biodegradable chitosan/PVA-based hydrogel incorporating green synthesized silver nanoparticles for wound healing applications</p> <p>NU Authors: Abdelrhman Ragab, Nourhan El-Badry, Nouran Tamer, Ahmed Naas, Ahmed Hamdy, Samar H. Tawakey, Alyaa I. Salim</p> <p>Source: BMC Chemistry</p>
	<p>Capacity Planning</p> <p>NU Authors: Ahmed M. Deif</p> <p>Source: CIRP Encyclopedia of Production Engineering</p>
 <p>Fig. 2 Spark streaming [8]</p>	<p>Cloud based real-time multivariate multi-step prediction of systolic blood pressure and heart rate using temporal convolutional network and Apache Spark</p> <p>NU Authors: Zainab H. Ali</p> <p>Source: Journal of Big Data</p>
	<p>Comparative analysis of statistical and deep learning-based multi-omics integration for breast cancer subtype classification</p> <p>NU Authors: Mahmoud M. Omran, Mohamed Emam, Mariam Gamaleldin, Asmaa M. Abushady, Mustafa A. Elattar, Mohamed El-Hadidi</p> <p>Source: Journal of Translational Medicine</p>
<p>Comprehensive Compliance Framework for RISC-V Architectures using the RISCOF Test Platform</p> <p>Proceedings - IEEE International Symposium on Circuits and Systems · Conference Paper · 2024 · DOI: 10.1109/ISCAS56972.2024.10742811</p> <p>Elshieny, Mohamed A. · Salim, Ahmed</p> <p>Nile University, Information Systems Center (ISC), School of Engineering and Applied Science (SEAS), 20th of July Corridor, Sheikh Zayed City, Giza, 12586, Egypt</p> <p>Show all information</p>	<p>Comprehensive Compliance Framework for RISC-V Architectures using the RISCOF Test Platform</p> <p>NU Authors: Mohamed A. Elshieny, Ahmed Soltan</p> <p>Source: Proceedings - IEEE International Symposium on Circuits and Systems</p>
	<p>Developing an explainable machine learning and fog computing-based visual rating scale for the prediction of dementia progression</p> <p>NU Authors: Zainab H. Ali</p> <p>Source: Scientific Reports</p>
<p>Evaluation of GPT 4o for Mobile Applications Code Conversion</p> <p>Proceedings of the 12th International Japan-Africa Conference on Electronics, Communications, and Computations, JAC-ECC 2024 · Conference Paper · 2024 · DOI: 10.1109/JAC-ECC64489.2024.10642191</p> <p>Mahmoud, Abdelrahman · Salim, Zainab · Elshieny, Mohamed A. · Elattar, Mustafa A. · El-Hadidi, Mohamed</p> <p>Nile University, Center for Informatics Science (CIS), School of Information Technology and Computer Science, Giza, Egypt</p> <p>Show all information</p>	<p>Evaluation of GPT 4o for Mobile Applications Code Conversion</p> <p>NU Authors: Abdelrahman Mashaal, Omar Helmy, Omar Ashor, Amira T. Mahmoud, Walaa Medhat</p> <p>Source: Proceedings of the 12th International Japan-Africa Conference on Electronics, Communications, and Computations, JAC-ECC 2024</p>

NU Publications on Scopus during July 2025

	<p>Fabrication of magnetic manganese ferrite-loaded sugar cane bagasse/peanut peel biochar adsorbents for the adsorptive removal of phosphorus from aqueous solution NU Authors: Alyaa I. Salim Source: Scientific Reports</p>
	<p>Hardware realization of predictor–corrector numerical method for solving fractional order chaotic systems on FPGA NU Authors: Mohammed H. Yacoub, Ahmed G. Radwan, Lobna A. Said Source: AEU - International Journal of Electronics and Communications</p>
<p>Lightweight Plant Leaf Classification Based on Transfer Learning: A Comparative Study</p> <p><small>Proceedings of the 12th International Japan-Africa Conference on Electronics, Communications, and Computations, JAC-ECC 2024 • Conference Paper • 2024 • DOI: 10.1109/JAC-ECC64439.2024.11612121 View Full Text</small></p> <p><small>Amer, Sherif Magdy²; Youssef, Omar²; Zakaria, Salma^{4,1}; Mohamed, Semah^{3,1}; Kamel, Ahmed Elzein^{4,1}; 12 authors</small></p> <p><small>¹Nile University, School of Information Technology and Computer Science, Giza, Egypt</small></p>	<p>Lightweight Plant Leaf Classification Based on Transfer Learning: A Comparative Study NU Authors: Sherif Magdy Amer, Omar Youssef, Salma Zakzouk, Samah Mohamed, Kareem Moussa, M. Saeed Darweesh Source: Proceedings of the 12th International Japan-Africa Conference on Electronics, Communications, and Computations, JAC-ECC 2024</p>
	<p>metaGEENOME: an integrated framework for differential abundance analysis of microbiome data in cross-sectional and longitudinal studies NU Authors: Ahmed Abdelkader, Mohamed El-Hadidi, Mohamed Mysara Source: BMC Bioinformatics</p>
 <p><small>Figure 3. Exiting libraries for multi-agent conversation leads lack control over agent transitions, often leading to divergent behaviors or off-topic discussions. Only minor tuning parameters are available to limit the maximum number of transitions.</small></p>	<p>Mitigating LLM Hallucinations Using a Multi-Agent Framework NU Authors: Ahmed M. Darwish, Ghada Khoriba Source: Information (Switzerland)</p>
	<p>Next-Gen Cloud Security: IRDS4C's Deception Strategy for Early Intrusion and Ransomware Detection NU Authors: Ahmed El-Kosairy, Nashwa AbdelBaki Source: International Journal of Safety and Security Engineering</p>
 <p>Predicting Non-Synonymous Single Nucleotide Variants Pathogenic Effects in Human Diseases</p> <p><small>Martina S. Hassan, A.A. Shaelan, M.I. Dessouky, Abdelaziz E. Abdelnaim, Dalila A. Abdel-Haleem, Mahmoud ElHefnawi</small></p>	<p>Predicting Non-Synonymous Single Nucleotide Variants Pathogenic Effects in Human Diseases NU Authors: Mahmoud ElHefnawi Source: Encyclopedia of Bioinformatics and Computational Biology: ABC of Bioinformatics</p>
	<p>Securing Smart Vehicles: A Bilateral TARA Approach for ISO 21434 and ASPICE for CS Compliance NU Authors: Ahmed Adel Mohamed, Heba Aslan, Tamer Arafa Source: International Journal of Safety and Security Engineering</p>

NU Publications on Scopus during July 2025

	<p>Tailoring strength-ductility synergy in Fe64Ni20-xCr12Co4(TiAl)x high-entropy alloys via cold rolling and controlled annealing temperatures NU Authors: Mohamed A. Afifi Source: Journal of Alloys and Compounds</p>
	<p>TC-Verifier: Trans-Compiler-Based Code Translator Verifier with Model-Checking NU Authors: Amira T. Mahmoud, Walaa Medhat, Sahar Selim Source: Applied System Innovation</p>
	<p>Egyptian Artifacts' Materials Classifier Based on Lightweight Deep Learning Architectures NU Authors: Esmat, M., Moussa, K, Yousri, R. Source: Egyptian Journal of Archaeological and Restoration Studies</p>
	<p>Reinforcement learning-enhanced adaptive sliding mode control for nonlinear systems NU Authors: Omnia Youssef, Mohamed Wafa, Raafat Shalaby Source: Complex and Intelligent Systems</p>