

# June

## Newsletter

**2025**

ISSUE#42



“

“Innovation thrives when you embrace change  
with open arms.”

— Tim Berners-Lee

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# EVENTS





# Events

## NU's Summer Day Camp for Youth is back for the 3<sup>rd</sup> Year!



Summer is coming, and so is the chance for your kids to have an unforgettable and enriching experience at our Summer Day Camp! We have designed exciting, interactive programs to spark curiosity, build valuable skills, and unlock their potential.

Here's a peek of our programs:

- Future Minds: The AI Bootcamp for Young Innovators (Ages 10-16)
- Programming & Character-Building Skills (Ages 6-9 & 10-15)
- Young Entrepreneurship (Ages 10-16)
- Future Astronaut (Ages 6 - 15)

Ready to give your child a summer packed with learning and adventure?

## 3<sup>rd</sup> Edition of the International Conference on Climate and Environment (ICCE 2025).



We were proud to host the 3<sup>rd</sup> Edition of the International Conference on Climate and Environment (ICCE 2025) held under the esteemed patronage of the Egyptian Cabinet of Ministers, in partnership with the League of Arab States, and supported by the Ministries of Culture, Youth & Sports, and Tourism & Antiquities.

The event was honored by the presence of H.E. Dr. Ayman Ashour, Minister of Higher Education and Scientific Research, representing the Prime Minister.

Day 1: League of Arab States HQ, Cairo

Day 2: Nile University Campus, 6th of October City

Organized by the School of Continuing Education at Nile University and Engineers for Sustainable Egypt, ICCE 2025 featured inspiring keynotes, innovative project showcases, and rich dialogue around the SDGs and Egypt's Vision 2030. This year, the conference proudly aligned itself with the UN Environment Programme's World Environment Day celebrations.

# Events

## Strengthening Global Collaboration in Water Education!



Nile University's School of Continuing Education welcomed delegates from the GWS SENCE Project, under the auspices of UNESCO-IHE Delft.

The delegation included representatives from the University of Nairobi, the University of Ibadan, and IHE Delft Institute for Water Education. During the visit, the delegates explored areas of collaboration with Nile University's Water Institute, emphasizing capacity building and joint action plans.

The universities expressed great appreciation for the visit and enthusiasm for launching the next steps toward impactful cooperation.

# ACHIEVEMENTS





# Achievements

## Military Technical College Participation



Dr. Mohamed Saeed Darweesh, associate professor and faculty member at the Wireless Intelligent Networks Center (WINC), represented Nile University at the 15th International Conference on Electrical Engineering (ICEENG 2025). He co-led a session on “Intelligent Guidance and Planning of Multi-UAV Systems,” showcasing innovative research at the intersection of autonomy, AI, and aerospace.

## IEEE Humanitarian Technologies Conference



Dr. Mohamed Saeed Darweesh, associate professor and faculty member at the Wireless Intelligent Networks Center (WINC), Nile University has also represented IEEE HT at the International Conference on Machine Intelligence and Smart Innovation (ICMISI) in Alexandria. He delivered three impactful talks on humanitarian engineering and programs like Tech4Good, engaging with leaders in AI and innovation.

Over the course of three impactful days, he had the privilege of representing IEEE Humanitarian Technologies (HT) and delivering three speeches on the role of IEEE HT in creating sustainable, human-centered impact. From highlighting the power of humanitarian engineering to discussing the HT consuritm programs like Tech4Good, SIGHT, EPICS, and MOVE, engaging with brilliant minds shaping the future of AI and innovation was a rewarding opportunity.



# Achievements

## **Dr. Mai Sallam has been selected for the esteemed APS-EPS-ICTP Travel Award Fellowship Programme (ATAP).**

We are delighted to share that Dr. Mai Sallam, Assistant Professor and faculty member at Nanoelectronics Integrated Systems Center (NISC), Nile University, has been selected for the esteemed APS-EPS-ICTP Travel Award Fellowship Programme (ATAP).

This prestigious fellowship, offered through a partnership between the American Physical Society (APS), European Physical Society (EPS), and the Abdus Salam International Centre for Theoretical Physics (ICTP), supports promising early-career scientists from developing countries by providing international travel and research collaboration opportunities.

Dr. Mai's achievement highlights her outstanding contributions to cutting-edge research and reflects NISC's commitment to global scientific engagement and excellence.

Congratulations to Dr. Mai Sallam on this well-deserved recognition!



## **Web forum India – Dr. Lobna Said, keynote speaker at the international workshop “Engineering the Future: From Data to Design”.**

Dr. Lobna Said, Program Director of the Microelectronics System Design (MSD) Program at Nile University, was invited as a keynote speaker at the international workshop “Engineering the Future: From Data to Design”, organized by the IEEE Women in Engineering (WIE) Branch Chapter at NIT Meghalaya, India.

In her online keynote titled “Research Versus Community: A Worldwide Perspective,” Dr. Said explored the dynamic interplay between academic research and societal impact, offering a global outlook on how engineering solutions can be more closely aligned with community needs.

This engagement highlights Nile University's active participation in global academic discussions and showcases the leadership of its faculty in advancing inclusive and responsible innovation.





# Achievements

**AuraAlert Team from Nile University student branch won 3rd place today in the finals of IEEEDuino - the Region 8 student hardware contest**



IEEEDuino is a student-focused hardware contest to inspire IEEE student and graduate student members in region 8 to design, build, program, and demonstrate a working hardware prototype within a limited timeframe. The competition promotes creativity, engineering skills, and problem-solving abilities in embedded systems, electronics, and hardware-software integration. For more details, please visit the website <https://ieeeduino.org/>

## Welcoming the EU-South MED Delegation to IECC



On June 17th, we had the pleasure of hosting a distinguished delegation of 60 participants from the EU-South MED Tour, including experts, policymakers, and innovators from Egypt and across the Mediterranean region.

Their visit began with an insightful presentation on IECC's ecosystem, highlighting our incubation and acceleration programs, innovation services, and our collaborations with national and international partners. The group explored how IECC supports startups and SMEs through practical, high-impact tools that turn ideas into scalable solutions.

The delegation also toured the Fact Center, where they had a closer look at the innovation infrastructure and real-world applications of our services.

Following the visit to the Fact Center, the group continued to the Microfactory, experiencing how advanced prototyping and local manufacturing support can accelerate product development.

We're proud to be a part of conversations that connect regional innovation with global opportunity.



# Achievements

## **IECC | Nile University was proud to take part in the final judging day of the Software Engineering Bootcamp**



Last week, IECC | Nile University was proud to take part in the final judging day of the Software Engineering Bootcamp, a program designed to help students across all levels take real steps toward junior and mid-level roles in software development.

Over the span of 9 weekly sessions, participants worked on a full-stack project: building customizable social media platforms tailored to their interests. Each session covered a core concept in software engineering, from SDLC and databases to APIs, version control, and cloud deployment.

The final event, held on June 11, 2025, brought the students together to present their finished projects in front of a judging panel. IECC was part of that panel, helping select the top three teams based on technical implementation, creativity, and usability.

Congratulations to the winning teams: MEMZY, who earned first place; MEMORIA, who came in second place; and TAQYIM, who secured third place.

It was a rewarding moment to see the hard work and growth of each team. A big thank you to the mentors, organizers, and students who brought this program to life.

## **NU's ECE Program Director Prof. Ahmed Madian, participated in a Mini-Symposium hosted by University College London (UCL).**

Prof. Ahmed Madian, Program Director of Electrical and Computer Engineering (ECE) at the School of Engineering, Nile University, participated as a Distinguished Lecturer Program (DLP) speaker in a Mini-Symposium hosted by University College London (UCL).

Prof. Madian delivered an insightful talk on “Fractional Order Circuits and Systems,” a rapidly evolving field with applications in signal processing, biomedical systems, and control engineering. His participation reflects international recognition of his research contributions and thought leadership in this advanced domain.

This prestigious invitation is a testament to Prof. Madian's impact in the field and highlights Nile University's active role in fostering global academic exchange.



# Achievements

## **Dr. Ahmed Soltan Delivers Keynote at FENDT Conference in China.**



Dr. Ahmed Soltan, Director of the Nanoelectronics Integrated Systems Center (NISC) at Nile University, was invited as a keynote speaker at the FENDT Conference held in China in June 2024.

Dr. Soltan's talk, titled "Smart Gateway for IoE-based Multi-Protocol Environment," addressed cutting-edge developments in the Internet of Everything (IoE), with a focus on smart communication gateways capable of handling diverse protocols within integrated systems. His presentation highlighted innovative solutions for seamless device interoperability in increasingly complex digital ecosystems.

This keynote reflects Nile University's commitment to global engagement and its leadership in advanced research across nanoelectronics and smart systems.

## **Dr. Bakinam Essawy Speaks on Sustainable Water Management at Awareness Workshop**

Dr. Bakinam Essawy, Assistant Professor and esteemed faculty member at the Smart Engineering Systems Research Center (SESC), was invited to deliver a talk at the awareness workshop titled "Sustainable Water Management: Integrating Drainage Solutions and Fertilizer Practices for Enhanced Water Quality."

Organized under the SafeAgroMENA project, the workshop brought together experts and stakeholders in the field of sustainable agriculture to explore innovative strategies for water conservation and environmental protection. Dr. Bakinam's session provided valuable insights into the integration of advanced drainage systems with optimized fertilizer application, key approaches for improving water quality in agricultural landscapes.

Her participation reflects SESC's continued commitment to promoting impactful research and knowledge exchange in support of sustainable development goals, particularly in the areas of smart water management and agricultural innovation.





# UNIVERSITY FAIRS & VISITS



# University Fairs & Visits

## **Open House Success: A Day of Discovery**

Our second Open House of the season was a real hit! Students and parents explored their dream majors through hands-on activities, connected with teaching staff during Q&A sessions, and enjoyed a guided tour of the campus.

## **Ambassador Training Gears Up for Admission Season**

Two intensive training sessions were held to prepare our student ambassadors for the upcoming admission season. These sessions focused on enhancing communication skills and delivering a top-tier campus experience for prospective students.

## **NU at Junior NIMUN: Inspiring the Next Generation**

Nile University hosted an interactive talk at the Junior NIMUN Conference, engaging over 200 students. Attendees got a taste of campus life and explored one of four exciting activities: Crime Scene Investigation, The Business World, Coding, or Engineering Sparks; followed by a guided campus tour.

## **Discovery Tours: A Glimpse into Life at NU**

Discovery Tours continues to welcome students and their parents to campus, offering the opportunity to meet faculty, explore facilities, and get a feel for life at NU. These tours remain a valuable tool for helping future students make informed decisions.



# STUDENT LIFE





# Student Life

## Enactus NU: From Ideation to Impact — Enactus NU Breaks into Egypt's Top 30 and Heads to Nationals



After months of dedication, collaboration, and real-world problem-solving, Enactus NU has proudly secured a spot among the top 30 teams in Egypt, advancing to the prestigious Enactus National Competition.

This milestone marks a major step forward in the journey of Luqma, the team's flagship project, which tackles food waste and economic inequality through an innovative, sustainable model. From ideation to implementation, Luqma has demonstrated the power of student-led impact, standing out among nationwide competitors for its creativity, feasibility, and social value.

This achievement reflects Enactus NU's commitment to turning ideas into meaningful changes one Luqma at a time.

## ECE students were introduced to the transformative journey of database technologies, with a spotlight on Oracle



In a recent session organized by ECE Program EAS, ECE students were introduced to the transformative journey of database technologies, with a spotlight on Oracle. Eng. Noha Elbadry served as the coordinator for this partnership with Oracle, facilitating this valuable learning opportunity.

The session was instructed by Eng. Fekry Nabil who emphasized Oracle's powerful architecture, seamless SQL integration, data integrity measures, and advanced transaction management. Students also explored how Oracle is adapting to modern trends, such as cloud computing, AI-powered data handling, and NoSQL systems meeting the growing demands of today's digital world. The session concluded with a strong focus on database security in the era of cloud computing, showcasing how Oracle's enhanced security framework protects organizations against both internal vulnerabilities and external threats through multi-layered security solutions.



# Student Life

**In collaboration with WestGate Consultants, our students recently presented tailored Public Relations strategies**



In collaboration with WestGate Consultants, our students recently presented tailored Public Relations strategies as part of their final case study evaluation. With Omar Ashmawy, Mona Fathy, and Dalia Zaky from WestGate team in attendance, each of the five student groups showcased strategic thinking, creativity, and business acumen.

A huge congratulations to the Winning Team, whose outstanding pitch earned them summer internships at WestGate! This win is more than a reward; it's a steppingstone to the professional world.

Special thanks to Dr. Menatalla Kaoud and TA Menna Magdy Hassan for designing this practical learning journey, and to WestGate for believing in the value of student-led ideas.

This partnership exemplifies our commitment to bridging academia and industry, preparing our students not just for the job market, but for leadership.

## **Celebrating NU Excellence: Innovative Research in AI-Powered Urban Crime Prediction**

We are proud to celebrate the achievements of Rawan Khaled Ibn El Waleed Mahmoud and Minnah Tariq El-Melegey from the School of Information Technology and Computer Science.

Their research paper, "AI-Enhanced Urban Crime Prediction: Exploring the Impact of Integrating Digital Behavior and Economic Data," introduces an innovative AI model that combines social media activity, search trends, and economic data to improve the accuracy of crime prediction in urban areas.

This forward-looking work reflects the powerful role of technology in shaping safer, smarter cities and showcases the high caliber of research conducted by Nile University students.

Congratulations to Rawan and Minnah on this outstanding accomplishment!



# Student Life

## Alabakera NU Club Honors Student Excellence on a Day of Celebration



Nile University hosted a vibrant and heartwarming celebration in honor of the students who participated in the Alabakera NU Club Competition. A group of talented individuals whose dedication and creativity reflected excellence across various fields.

The event also celebrated the contributions of key individuals who made the day truly special. A heartfelt thank you goes to Al-Shaimaa Kotob, our exceptional sign language interpreter, for her inclusive and impactful presence. We also thank Mohamed Qandil and Mario Mamdouh for their enchanting performances on the oud and flute, and Rowan Hossam for her captivating singing that added a beautiful emotional layer to the event.

We deeply appreciate the continued support of our sponsors and partners, whose efforts and presence helped bring this celebration to life.

## NIMUN: Junior Conference 3rd Edition Kicks Off at Nile University

The NIMUN Club at Nile University proudly launched the 3rd edition of the Junior Nile International Model United Nations (JNIMUN) an inspiring conference tailored for school students to explore diplomacy, debate, and global issues.

The conference officially opened on Friday, July 4th, and will run over three consecutive days, concluding on Sunday, July 7th, 2025. This year's edition features dynamic committee sessions, an engaging opening and closing ceremony, and the much-anticipated Joy Day, where young delegates take a break from debate to showcase their unique talents through performances and creative expression.

JNIMUN continues to serve as a powerful platform for the next generation of leaders to:

- Strengthening public speaking and negotiation skills
- Engage in meaningful dialogue around international topics
- Build confidence and collaboration in a diverse environment



We are incredibly proud of the energy, passion, and professionalism demonstrated by all participants. The NIMUN Club's commitment to educational excellence and youth empowerment is truly inspiring.



# Student Life

## IEEE Club Wins 3<sup>rd</sup> Place at IEEE DUINO 2025

We are beyond proud to celebrate the outstanding achievement of our brilliant IEEE NU Club members, who secured 3<sup>rd</sup> Place globally at the prestigious IEEEduino – IEEE Region 8 Student Hardware Contest, held as part of EUROCON 2025 in Gdynia, Poland.

Competing among over 150 projects from around the world, our students demonstrated world-class innovation, technical excellence, and a deep sense of social impact.

Meet the Team:

- Donya Moussa – Junior, Computer Science
- Jana Abdelfattah – Sophomore, Computer Science
- Youssef Yasser – Freshman, Mechanical Engineering

Their project, AuraAlert: Giving Children with Epilepsy Their Childhood Back, is a groundbreaking wearable solution designed to predict epileptic seizures in children up to one hour in advance.

What is AuraAlert?

AuraAlert is a smart, AI-powered wearable sleeve equipped with biosensors that collect and analyze real-time physiological data — including:

- GSR (Galvanic Skin Response)
- HRV (Heart Rate Variability)
- EMG (Muscle Activity)
- Motion, Sound, and Temperature

Using machine learning models trained on the SeizureIT2 dataset, AuraAlert can:

- Detect seizure onset early
- Send real-time alerts to parents via a connected mobile app
- Provide a vital window for early intervention, potentially saving lives and improving the quality of life for children living with epilepsy



## Students Achievements: NU's Team 404 Wins First Place at ASME Student Design Competition.

A big shoutout to Team 404 from Nile University for their remarkable achievement in the ASME Student Design Competition (SDC), which featured the Ball Bearing Sorting Challenge and was held at AUC.

Team 404 represented Nile University with excellence, creativity, and determination, securing First Place in this prestigious engineering competition. Their innovative design, problem-solving skills, and strong teamwork truly set them apart.

Team Members:

Mahmoud Magdy Ghazy, Yusuf Osman, Omar Magdy Gamal, Moaz Emad Gamal, Ahmed Sers, Adham Mohamed.



Congratulations to our brilliant students on this well-deserved victory!

# Student Life

## Newcastle Crowned Champions in NU Football League Final

The much-anticipated final match of Nile University's Football League, originally postponed from the first semester due to the university team's participation in the Second Sector Championships, was finally held — and it did not disappoint.

The final showdown featured an exciting clash between Team Al-Nasr and Team Newcastle. After an intense and competitive match, Newcastle secured a 3-0 victory, showcasing skill, teamwork, and sportsmanship from both sides.

The match was a thrilling end to the tournament, filled with energy and high spirits. Players from both teams displayed great sportsmanship and dedication on the field.

At the closing ceremony, Team Newcastle was awarded the championship trophy and gold medals, while Team Al-Nasr proudly received the silver medals in recognition of their strong performance throughout the tournament.



## IEEE NU Hosts “TechTalks 1.0” at Nile University

IEEE Student Branch at Nile University (IEEE NU) successfully hosted TechTalks 1.0, a full-day technology event designed to inspire and educate students, professionals, and tech enthusiasts.

TechTalks 1.0 included keynote speeches by industry experts covering trending technologies such as:

- Artificial Intelligence (e.g., prompt engineering and AI automation)
- Software Development (UX/UI design, mastering Git/GitHub)
- Mobile Dev with Flutter, Data Analytics using Power BI
- Cybersecurity, Cloud Computing, PCB Design
- Hands-on Workshops (12 sessions) where attendees could dive deep into these subjects.
- Networking Opportunities with professionals, fellow students, and tech leaders
- Quantum Computing, IoT, Mindful Leadership Workshop

Why was TechTalks 1.0 a success?

It offered a diverse program of talks and labs all in one accessible location, Nile University's campus. It also bridged the gap between theory and practice, allowing participants to engage with technologies directly.





# NU ALUMNI



# NU Alumni

## Alumni Spotlight | Ahmed Tarek

We're proud to celebrate the achievements of our alumnus Ahmed Tarek, who graduated from the School of Business Administration and Management in 2019. Ahmed has recently joined Nissan Motor Corporation as an Overseas MRP Specialist, marking an exciting new chapter in his professional journey.

We wish Ahmed continued success in his role and look forward to seeing his impact in the global automotive industry!



## Alumni Spotlight | Baher Ramadan Nagem

We're proud to share the exciting career journey of our recent graduate, Baher Ramadan Nagem, who earned his degree from the School of Engineering and Applied Sciences and Management, majoring in Electronics and Communications Engineering.

Baher has just started a new role as a SOC Analyst at the Egyptian Computer Emergency Readiness Team (EG-CERT) — a vital organization responsible for securing the nation's cyber infrastructure. This milestone follows the successful completion of his internship as a Cyber Security Engineer at the National Telecommunication Institute (NTI), where he deepened his skills and passion for cybersecurity. Congratulations, Baher! We look forward to seeing your continued growth and impact in the field of cybersecurity.



## Alumni Spotlight | Abdelrahman Kamel – Class of 2023

We're proud to celebrate Abdelrahman Kamel, a 2023 graduate from the School of Business Administration, majoring in Supply Chain and Operations. Abdelrahman has recently started a new role at one of Egypt's leading FMCG companies — Juhayna Food Industries — as a Senior Procurement Specialist and Material Planning.

His journey is a great example of how NU alumni continue to make their mark in top organizations. Congratulations, Abdelrahman — we're proud of you and wish you continued success in your career!





# NU Alumni

## Alumni Spotlight | Salma Desouky – Class of 2024

We're proud to celebrate Salma Desouky, a recent graduate from the School of Business Administration, majoring in Supply Chain and Operations. Salma has recently earned the SAP Certified Associate – SAP S/4HANA Cloud Private Edition, Asset Management certification from SAP — a significant milestone in her professional journey.

She is currently working at IBM, one of the world's leading tech and consulting companies, as a Junior SAP PM Consultant. We're excited to see Salma apply her skills and grow in such a global environment!

Congratulations, Salma — your NU family is proud of you!



## Alumni Spotlight | Zyad Ebid - Class of 2024

We're proud to celebrate Zyad Ebid, a 2024 graduate from the School of Business Administration with a GPA of 3.65, for his outstanding academic and professional achievements. Zyad recently earned his Master's Degree in International Marketing from Jönköping International Business School, where he was honored with the prestigious Rising Star Award in recognition of his excellence and potential.

He has also kickstarted his career journey by joining Volvo Financial Services as a Marketing Communications Intern, gaining hands-on experience in a global business environment.

Congratulations, Zyad! Your NU family is proud and cheering you on as you grow internationally!



## Alumni Spotlight | Farida Tarek - Class of 2021

We're proud to celebrate the journey of our distinguished alumna, Farida Tarek, who continues to grow and excel in the logistics and supply chain field!

During her time at NU, Farida expanded her academic horizons with a semester abroad at the University of Applied Sciences Upper Austria, enriching her global perspective and practical experience. Currently, she is pursuing her MBA degree at the Arab Academy for Science, Technology and Maritime Transport, further building on her strong foundation in business and logistics.

Professionally, Farida spent the last three years working as a Logistics Specialist at Groupe SEB Egypt—a leading global player in small domestic equipment. Thanks to her dedication and outstanding performance, she has recently been promoted to Senior Logistics Specialist! We're incredibly proud of Farida and look forward to seeing her continued success.



# NU Alumni

## Alumni Spotlight | Sarah Hodaiby - Class of 2022

We're proud to highlight our alumna Sarah Hodaiby, a 2022 graduate from the School of Business Administration, majoring in Integrated Marketing Communication, with a GPA equivalent to Very Good. Sarah recently took an exciting step in her career by joining Egypt Foods Group as an Assistant Brand Manager, where she continues to pursue her passion for marketing and brand development. Prior to this role, Sarah gained valuable experience as an Account Manager at Guru Advertising Agency, where she spent two years managing key client relationships and executing impactful campaigns. Congratulations Sarah! We're proud to see your continued growth and success in the marketing world.



## Alumni Spotlight | Mohamed Ibrahim - Class of 2011

We are proud to highlight the achievements of our distinguished alumnus Mohamed Ibrahim, who earned his master's degree in Wireless Communications from Nile University in 2011.

In pursuit of academic excellence, Mohamed went on to earn his Ph.D. in Computer Science from Rutgers University–New Brunswick in 2020. His research journey led him through esteemed institutions, including serving as a Postdoctoral Associate at Carnegie Mellon University and as a Research Assistant at WINLAB.

Today, we celebrate Mohamed's recent promotion to Senior Research Scientist at Hewlett Packard Enterprise (HPE), after nearly two years in the role of Research Scientist. His path reflects the spirit of innovation and dedication we are proud to see in NU alumni around the world.

Congratulations, Mohamed! Your journey continues to inspire.



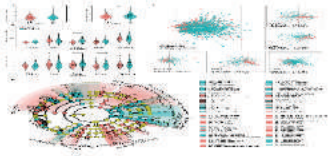
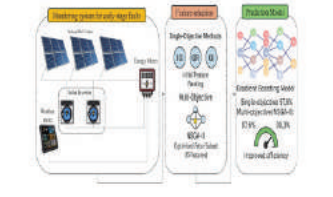

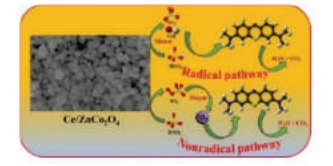


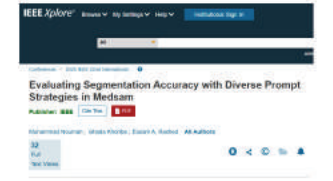
**Hewlett Packard**  
Enterprise



# PUBLICATIONS


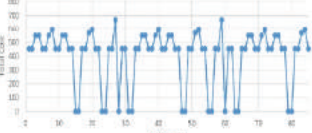
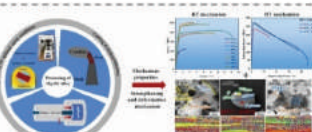


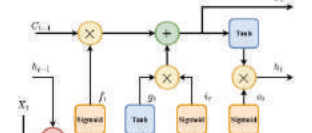



# NU Publications on Scopus during June 2025



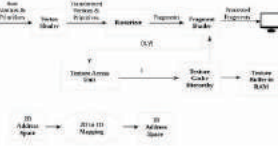

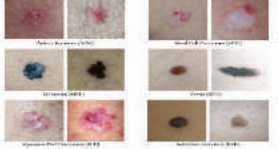



	<p><b>Proinflammatory and GABA eating bacteria in Parkinson's disease gut microbiome from a meta-analysis prospective</b>  <b>NU Authors:</b> Nour H. Marzouk, H. H. Rashwan, Mohamed Elhadidi, Raghda Ramadan, Mohamed Mysara  Source: npj Parkinson's Disease</p>
	<p><b>A predictive machine learning approach for early fault identification in solar photovoltaic systems</b>  <b>NU Authors:</b> Zainab Hassan Ali  Source: Electric Power Systems Research</p>
	<p><b>Numerical Simulation of Tuna Fish Locomotion Using Reynolds-Averaged Navier-Stokes Equations and Arbitrary Lagrangian-Eulerian Methods: A Parametric Study on Thrust Generation</b>  <b>NU Authors:</b> Amr G. Guaily  Source: Unmanned Systems</p>
	<p><b>Advanced oxidations process using peroxydisulfate and Ce/ZnCo2O4 nanocomposite for dyes degradation</b>  <b>NU Authors:</b> Irene Samy Fahim, Rawan K. Hassan  Source: Results in Chemistry</p>
	<p><b>Implications of Advanced Technology on IT Shared Service Centers</b>  <b>NU Authors:</b> Hajar Wadaatallah, ElHassan Anas ElSabry  Source: 2nd International Conference on IT Innovations and Knowledge Discovery, ITIKD 2024</p>
	<p><b>Aftina: enhancing stability and preventing hallucination in AI-based Islamic fatwa generation using LLMs and RAG</b>  <b>NU Authors:</b> Marryam Yahya Mohammed, Sama Ayman Ali, Salma Khaled Ali, Ensaf Hussein Mohamed  Source: Neural Computing and Applications</p>
	<p><b>Evaluating Segmentation Accuracy with Diverse Prompt Strategies in Medsam</b>  <b>NU Authors:</b> Ghada Ahmed Khoriba  Source: Proceedings - International Symposium on Biomedical Imaging</p>



## NU Publications on Scopus during June 2025

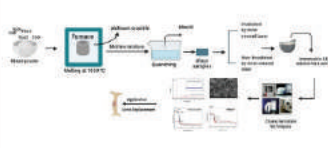

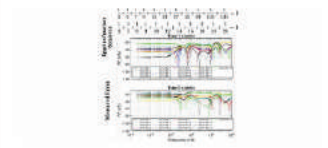
	<p><b>Machine learning-based stratification of prediabetes and type 2 diabetes progression</b>  <b>NU Authors:</b> Abdelrahman Khaled  Source: Diabetology and Metabolic Syndrome</p>
	<p><b>Fuzzy demand electric vehicle routing problem with soft time windows</b>  <b>NU Authors:</b> Nour Abdulatif, Mohamed A. Wahby Shalaby, Sally S. Kassem, Tarek Khalil  Source: Fuzzy Optimization and Decision Making</p>
	<p><b>Tailoring the mechanical properties in Mg-11Gd-xY-0.5Zr (x=1.5, 2.5 and 3.5 wt%) alloys: The synergistic impact of yttrium, extrusion, and aging on precipitation kinetics and phase-transformations</b>  <b>NU Authors:</b> Mohamed A. Afifi  Source: Journal of Alloys and Compounds</p>
	<p><b>Particle swarm optimization with YOLOv8 for improved detection performance of tomato plants</b>  <b>NU Authors:</b> Zainab Hassan Ali  Source: Journal of Big Data</p>
	<p><b>Blockchain and federated learning based on aggregation techniques for industrial IoT: A contemporary survey</b>  <b>NU Authors:</b> Zainab Hassan Ali  Source: Peer-to-Peer Networking and Applications</p>
	<p><b>High-performance FPGA-accelerated LSTM neural network for chaotic time series prediction</b>  <b>NU Authors:</b> Mohammed H. Yacoub, Lobna A. Said  Source: AEU - International Journal of Electronics and Communications</p>
	<p><b>Effect of copper and zinc oxide doping in 13-93B3 borate glass for enhanced wound healing</b>  <b>NU Authors:</b> Bothina M.Elchowafy, Irene Samy Fahim  Source: Ceramics International</p>

## NU Publications on Scopus during June 2025

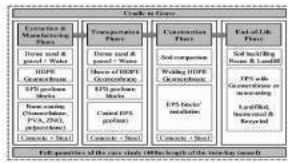
	<p><b>Advanced Research Trends in Sustainable Solutions, Data Analytics, and Security</b>  <b>NU Authors:</b> <a href="#">Ahmed G. Radwan</a>, <a href="#">Islam Tharwat Abdel-Halim</a>  Source: Advanced Research Trends in Sustainable Solutions, Data Analytics, and Security</p>
	<p><b>RNA-seq unveils pathways for drought and salinity resilience in Egyptian rice Sakha 102</b>  <b>NU Authors:</b> <a href="#">Mohamed Hazman</a>  Source: Plant Growth Regulation</p>
	<p><b>Efficient Cache Performance Equivalent 2D-Texture to Memory Mapping Identification for Embedded GPUs</b>  <b>NU Authors:</b> <a href="#">Ahmed H. El-Mahdy</a>  Source: IEEE Access</p>
	<p><b>High strength and ductility in a lightweight AlTiNbZrTa refractory high-entropy alloy enabled by nanophase precipitation and solute segregation</b>  <b>NU Authors:</b> <a href="#">Mohamed A. Afifi</a>  Source: Matter</p>
	<p><b>MiSC: A hybrid multi-modal deep learning approach for accurate skin cancer detection</b>  <b>NU Authors:</b> <a href="#">Ensaf Hussein Mohamed</a>  Source: Multimedia Tools and Applications</p>
	<p><b>A Novel Artificial Intelligence Approach to Kennedy Classification for Partially Edentulous Patients Using Panoramic Radiographs</b>  <b>NU Authors:</b> <a href="#">Ensaf Hussein Mohamed</a>  Source: European Journal of Prosthodontics and Restorative Dentistry</p>
	<p><b>High-gain ultrawideband CPW-fed crescent slot antenna for next-generation wireless systems</b>  <b>NU Authors:</b> <a href="#">Mai O.Sallam</a>, <a href="#">Mohamed M. Gad</a>  Source: Journal of Electromagnetic Waves and Applications</p>
	<p><b>Reshaping marketing through immersive technologies – an exploratory study in the Egyptian real estate sector</b>  <b>NU Authors:</b> <a href="#">Mostafa ElBolak</a>, <a href="#">Menatalla Kaoud</a>  Source: African Journal of Economic and Management Studies</p>



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	<p><b>Nano-second laser-irradiated ZnO-doped borate glass for bone tissue engineering: structural and optical studies</b>  <b>NU Authors:</b> N. M.Salatein, Irene Samy Fahim  Source: Journal of Umm Al-Qura University for Applied Sciences</p>
	<p><b>Knowledge Graphs: The Future of Data Integration and Insightful Discovery</b>  <b>NU Authors:</b> Saher Mohamed, Saher M. Mohamed, Abdelrahman Yasser Saeed, Kirollos Saleh Farah, Abdelrahman Lotfy Ghada Ahmed Khoriba, Kareem Ayman Rizk, Tamer Arafa  Source: Advanced Research Trends in Sustainable Solutions, Data Analytics, and Security</p>
	<p><b>Wideband Signal Generation Using Egyptian Fractions and Application to Instantaneous Impedance Measurements</b>  <b>NU Authors:</b> Ahmed S. Elwakil  Source: Journal of Molecular Neuroscience</p>

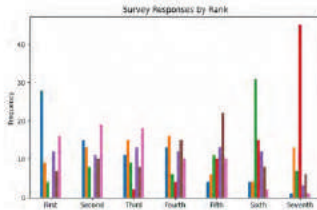
# NU Publications on Scopus during May 2025



**A comparative analysis of nanocoated expanded polystyrene for sustainable infrastructure applications**

**NU Authors:** Moamen A. Shekib, Emad. S. Bakhoun, Mohamed M. Omran, Ahmed M. Ahmed, Irene Samy Fahim, Sherif S. AbdelSalam

Source: Scientific Reports



**A UNLOCKING OPPORTUNITIES OF FOREIGN RESEARCH FUNDING IN DEVELOPING COUNTRIES: THE CASE STUDY OF EGYPT**

**NU Authors:** Abeer Mahgoub, ElHassan Anas ElSabry

Source: Journal of Research Administration



**Predicting the availability of power line communication nodes using semi-supervised learning algorithms**

**NU Authors:** Kareem Moussa, M. Saeed Darweesh, Ahmed Soltan

Source: Scientific Reports



**Integrating sustainability and least cost path analysis with a relative sustainability scoring index for optimal road planning**

**NU Authors:** Emad. S. Bakhoun

Source: Scientific Reports



**The unresolved struggle of 16S rRNA amplicon sequencing: a benchmarking analysis of clustering and denoising methods**

**NU Authors:** Mohamed Fares, Engy K. Tharwat, Mohamed Elhadidi, Mohamed Mysara

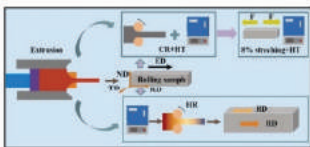
Source: Environmental Microbiome



**Unearthing the hidden path of MANET's nodes with signal strength measurements: Forensics challenges, survey and a novel approach for data collection, preservation and examination**

**NU Authors:** Omar Ragheb, Mena Safwat, Marianne Amir Azer

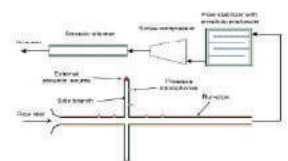
Source: Forensic Science International: Digital Investigation



**Effect of double-extrusion following by stepwise-hot-rolling on microstructures and mechanical properties of Mg-Gd-Y-Zn-Zr alloy**

**NU Authors:** Mohamed A. Afifi

Source: Journal of Magnesium and Alloys



**Acoustic resonance excitation and source mapping in co-axial piping systems with different junction edge geometries**

**NU Authors:** Mahmoud Shaaban

Source: Journal of Sound and Vibration

# NU Publications on Scopus during May 2025

<p><b>NU Authors:</b> <a href="#">Noha Gamal El Din Saad</a></p> <p><b>Source:</b> 34th International Conference on Computer Theory and Applications, ICCTA 2024</p>	<p><b>Cross-Modal Embedding Generalized Framework for Audio-Text Alignment</b></p> <p><b>NU Authors:</b> <a href="#">Noha Gamal El Din Saad</a></p> <p><b>Source:</b> 34th International Conference on Computer Theory and Applications, ICCTA 2024</p>
<p><b>NU Authors:</b> <a href="#">Omar Mohamed Ayman</a>, <a href="#">Mosaab Emad Gamal</a>, <a href="#">Mohamed Elsayed Atwa</a>, <a href="#">Yassin Khaled</a>, <a href="#">Noha Gamal El Din Saad</a></p> <p><b>Source:</b> 34th International Conference on Computer Theory and Applications, ICCTA 2024</p>	<p><b>Exploiting Machine Learning and Remote Sensing for Precision Crop Mapping in Africa</b></p> <p><b>NU Authors:</b> <a href="#">Omar Mohamed Ayman</a>, <a href="#">Mosaab Emad Gamal</a>, <a href="#">Mohamed Elsayed Atwa</a>, <a href="#">Yassin Khaled</a>, <a href="#">Noha Gamal El Din Saad</a></p> <p><b>Source:</b> 34th International Conference on Computer Theory and Applications, ICCTA 2024</p>
<p><b>NU Authors:</b> <a href="#">Yaman Sahu</a>, <a href="#">Mahmoud Wael</a>, <a href="#">Bibek Gupta</a>, <a href="#">Tasneem Tarek Abdelkareem</a>, <a href="#">Mohamed A. Wahby Shalaby</a></p> <p><b>Source:</b> 33rd International Conference on Computer Theory and Applications, ICCTA 2023</p>	<p><b>Comparative Analysis of Computer Vision Techniques for Traffic Signs Recognition in Autonomous Vehicles</b></p> <p><b>NU Authors:</b> <a href="#">Yaman Sahu</a>, <a href="#">Mahmoud Wael</a>, <a href="#">Bibek Gupta</a>, <a href="#">Tasneem Tarek Abdelkareem</a>, <a href="#">Mohamed A. Wahby Shalaby</a></p> <p><b>Source:</b> 33rd International Conference on Computer Theory and Applications, ICCTA 2023</p>