



ISTANBUL  
**GELISIM**  
**UNIVERSITY**

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**GELISIM**

University

The Faculty of Engineering and Architecture

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**SCIENTIFIC STUDIES AT OUR FACULTY**

**Asst. Prof. Dr. Elham PASHAEI**'s article "Convolutional LSTM model for speech emotion recognition", prepared with our student **Ömer Faruk ÖZTÜRK**, was published in the "Dicle University Journal of Engineering".

*For more detailed information about Istanbul Gelisim University, Computer engineering scientific studies, you can visit: [www.gelisim.edu.tr](http://www.gelisim.edu.tr).*

**Computer Engineering**



The paper named "Detection of Driver Distraction using YOLOv5 Network" is written by Electrical and Electronics Engineering Research Assistant **Kubilay ATAŞ** was presented at the "Global Conference for Advancement in Technology". The study will be indexed on IEEE Explore and Scopus.

The paper is written by Electrical and Electronics Engineering Department Research Assistant **Kubilay ATAŞ** and **Assist. Prof.Dr. Sevcan KAHRAMAN** with the title "LIDAR-AIDED TOTAL VARIATION REGULARIZED NONNEGATIVE TENSOR FACTORIZATION FOR HYPERSPECTRAL UNMIXING" was published in International Geoscience and Remote Sensing Symposium indexed on IEEE Explore.

**Electrical-Electronics Engineering**



- At the 22nd National Mechanics Congress of Çukurova University, where our Civil Engineering Head of Department Asst. Prof. Dr. Ahmad Reshad NOORI was a member of the local organizing committee and chaired the session on Solid Objects and Material Mechanics, paper titled "Free Vibration Analysis of Functionally Graded Sandwich Beams" and "Static Analysis of Multi-Span Composite Arch Systems by Complementary Functions Method" have been published.
- The article titled "Elasto-Plastic Fiber Reinforced Geopolymer Concrete Containing Recycled Aggregate: Assessment of Strength and Abrasion Resistance", co-authored by Dr. Mukhallad AL-MASHHADANI, one of our Civil Engineering faculty members, was published in Environmental and Technology Journal, "Strength and Abrasion of Performance His article titled "Recycled Aggregate Based Geopolymer Concrete" was published in the Sigma Journal of Engineering and Natural Sciences. Our department member co-advised students named Abdelaziz Yousuf MOHAMED and Asfaw Mekonnen LAKEW for their thesis subjected "Mechanical and Durability Assessment of Geopolymer Concrete Containing Elasto-Plastic Fibers and Recycled Aggregate" and "Synergetic Effect of Recycled Coarse Aggregate and Steel Fiber on The Mechanical and Durability Aspects of Fly Ash / Slag Based Geopolymer Concrete" at Yıldız Technical University Civil Engineering Department Structural Master Program.
- Silda DOORI and Mehmet Sena KAŞKA, PhD students of Asst. Prof. Dr. Anıl NİŞ, one of our Civil Engineering department members, successfully passed the doctoral proficiency exams and Ruya Khaleel RASHID, Nursena ÖZBEY and Serdar AKYILDIRIM master's programs with thesis. The article titled 'Fresh and Hardened State Performance of Self-Compacting Slag Based Alkali Activated Concrete Using Nanosilica and Steel Fiber', in which our faculty member is the lead author, was published in the SCI comprehensive Q1 impact factor Journal of Composite Materials.
- Marwan Abdulkareem Shakir AL BAYATI, one of the PhD students of Asst. Prof. Dr. Yasin PAŞA, one of our Civil Engineering department members, successfully passed the doctoral proficiency exams. Zaid Adil Abdulsahib AL QAZZAZ, a graduate student, successfully completed his master's thesis defense.
- Enes DAĞ, one of the graduate students of Prof. Dr. Mustafa KARAŞAHİN, one of our Civil Engineering department members, successfully completed the thesis defense for his thesis on Design of Retaining Structures in Deep Excavations and Comparison of Design with Inclometric Measurements: Kadıköy District Urban Transformation Project Example. At the 8th National Asphalt Symposium and Exhibition to be held on 8-9 December 2021, one of our department members Prof. Dr. Mustafa KARAŞAHİN has been elected as a member of the Organizing Committee, the Executive Committee and the Scientific Committee.
- A book review article titled "Thermal Energy Storage Technologies for Sustainability: Systems Design, Assessment and Applications", co-authored by one of our Civil Engineering Department members Res.Asst. Oğuzhan Murat HALAT, has been published in the Journal of Sustainable Economics & Management Studies (ECOMAN).

### Civil Engineering



The study titled “A Privacy Enhanced Authentication Scheme for Securing Smart Grid Infrastructure” prepared by **Assist.Prof.Dr. Khalid YAHYA** and his working group has been published in the journal “IEEE Transactions on Industrial Informatics”.

### Mechatronics Engineering



#### a. Published articles:

Articles published by **Dr. Yakubu Aminu DODO** are as follows:

- Opting for Enriching Saudi Arabia’s Tourism Attraction Sites towards the Realization of Vision 2030. *Elementary Education Online* 2021; Vol 20 (Issue 5): pp.4101-4114, doi: 10.17051/ilkonline.2021.05.450.
- Thermal and Kinetic Analyses of Maize Cob Combustion under Non-Isothermal and Multiple Heating Rate Thermogravimetric Conditions. *Pet Coal* (2021); 63(3): 694-703. ISSN 1337-7027 an open access journal.
- Visual pollution manifestations negative impacts on the people of Saudi Arabia. *International Journal of Advanced and Applied Sciences*, 8(9) 2021, Pages: 94-101.
- Standardization, Quality Control, and Bio-Enhancement of Botanical Insecticides: a Review. *DRC Sustainable Future: Journal of Environment, Agriculture, and Energy* 2021, 2: 104-111.
- Assessment on Accuracy of Design Science Research (DSR) Framework as a Daylighting Measurement Tool for Islamic Religious School. *9th Asian Conference on Environment-Behaviour Studies* 28-29 Jul 2021.

#### b. Symposium participation:

- The “13th National Lighting Congress” organized by the Turkish National Committee for Lighting (ATMK) on 6-7 October 2021 was held online this year due to pandemic conditions. The opening session of the congress was managed by Faculty Member of the Department of Architecture and Honorary President of ATMK **Prof. Dr. Mehmet Şener KÜÇÜKDOĞU**.

### Architecture



THE NEWS FROM DEPARTMENTS

Computer Engineering & Software Engineering

- Birkan ALHAN (BGA Pentester) and Hatice Beyza TAŞÇI (Turk Telekom, Technology Security and Risk Analysis Assistant Specialist), who are graduates of Computer Engineering at our university, will be interviewed on the career opportunities and studies of cyber security in the sector.
- Cyber Security as a Career event organized by the Cyber Security Applications Club, the Software Developers Youth Club and the Cyber Security Application and Research Center will be held on 04 November 2021 at 15:00 at the E Blok Tusi (Erasmus+) Conference Hall.



ISTANBUL  
**GELİSİM**  
ÜNİVERSİTESİ

SİKS

Söyleşi

**KARİYER OLARAK SİBER GÜVENLİK**

**Birkan ALHAN**  
Bilgi Güvenlik Akademisi Pentester

**Hatice Beyza TAŞÇI**  
Türk Telekom Bilgi Güvenliği & Teknoloji Risk Yönetimi Uzman Yardımcısı

4 Kasım 2021 15.00-16.00  
Perşembe

E BLOK  
TUSİ KONFERANS SALONU(265)

Siber Güvenlik Uygulama Araştırma Merkezi ve Siber Güvenlik Uygulamaları Kulübü tarafından düzenlenmektedir.

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UTKU YILDIZ (200403713@ogr.gelisim.edu.tr) and Muhammed Ali TANRIVERDİ (muhammed.tanriverdi@ogr.gelisim.edu.tr) were determined as Cyber Security Application Club and Yougt Software Developer Club Presidents. Club Presidents will carry out their activities under the coordination of our Student Representative YAKUP ÇİFCİ (190403155@ogr.gelisim.edu.tr). All activities requested to be carried out on the basis of the mentioned clubs will be notified to the club presidents at least 15 days in advance and planning activities will be initiated. The club activities in question will be published as Announcement/News on the related club's WEB pages.

Computer/Software Engineering Foreign National Guest Students Meeting

- A Meeting with our Guest Students registered in the Computer and Software Engineering Departments, a meeting on 11 November 2021 at 14:00 on the link <https://meet.google.com/irk-apsw-sim> to identify problems (if any) and solution suggestions. ONLINE Meeting will be held. We welcome all Computer and Software Engineering Visiting Students.
- Istanbul Gelisim University Computer - Software Engineering, 2021-2022 academic year advisor hours have been published on the relevant WEB Pages.

## Civil Engineering

One of our Civil Engineering faculty members **Asist. Prof Dr. Mukhallat AL MASHHADANI** has been appointed as the Deputy Head of the Department.

## Architecture

Within the scope of the Basic Design I (ARC123) course, on Thursday, 21.10.2021, between 12.20-14.20, the seminar on "*Basic Principles in Photo Composition*" was held by **Lect. See. Başak Ildız YERLIKAYA** with the invitation of the course directors, Dr. Nihal KAYAPA and Lecturer. See. Hilay ATALAY.

On Saturday, October 23, 2021, within the scope of MIM417 Survey and Restoration course, a field trip was made to Fener Balat, which is the working area, together with the lecturer of the course **Dr. İlke CİRİTÇİ**. Students, whose working places are mostly in Fener Balat districts, were provided to obtain information about the region and to get to know the area where they will take the survey.



## Aeronautical Engineering

### **Student club activities**

Aeronautical Engineering 3rd year student Ayberk ERMUTUŞ has become the new president of the Aerospace Sciences Project Club. We wish him success.

The club was introduced by the new club president on Tuesday, October 19, 2021 to the first year students who have just started the Aeronautical Engineering department.

### **NASA chooses GE Aviation Turkey for electric aircraft engine program**

The US National Aeronautics and Space Administration (NASA) has announced a research partnership with GE Aviation to launch a new hybrid electric technology test vehicle program. Ground and flight tests of the hybrid electric propulsion system in the megawatt (MW) class are planned to be carried out by the mid-2020s. Flight tests of the hybrid electric technology will be conducted on a modified Saab 340B test aircraft and with GE's CT7-9B turboshaft engines.

NASA will fund GE Aviation and its partners a total of \$260 million over five years to accelerate the use of hybrid electric flight technologies in commercial aviation. After years of developing parts for hybrid electric systems' engines, generators and power converters, GE will systematically develop an integrated hybrid electric powertrain for single-aisle aircraft to demonstrate flight readiness.

### **Istanbul Gelişim University Aeronautical Engineering Department Awarded by Bluesky Awards**

The Aeronautical Engineering Department, affiliated to the Faculty of Engineering and Architecture of Istanbul Gelişim University, was awarded the Aircraft Engineering Department of the Year in the Aviation Achievement Awards organized annually by the "Bluesky Awards", Turkey's first and only independent aviation achievement awards organization. The relevant link is below:

<https://www.blueskyawards.com/blog/pdfviewer/award-winners-2021>





## PROTECTION AGAINST VIRUS IS IN OUR HANDS



THE MOUTH AND NOSE SHOULD BE CLOSED WITH PAPER TOWEL DURING COUGHING AND SNEEZE. IF YOU DO NOT HAVE ANY WIPE, THE INSIDE OF THE ELBOW SHOULD BE USED.



CLOSE CONTACT SHOULD AVOID LIKE HANDSHAKE AND HUGGING.



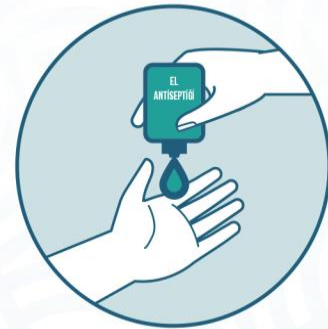
IT SHOULD BE STAYED AWAY FROM CROWDED ENVIRONMENTS.



DO NOT TOUCH THE MOUTH, NOSE AND EYES WITH DIRTY HANDS.



HANDS MUST BE WASHED WITH WATER AND NORMAL SOAP FOR AT LEAST 20 SECONDS.



ALCOHOL CONTENT HAND ANTISEPTICS SHOULD BE USED IN CASE OF THERE IS NO WATER AND SOAP.

  
/SaglikBakanligi

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