



MESSAGE FROM THE DEAN

Greetings,

As promised, we are back with the new issue of our newsletter listing many activities and events that have happened since the previous issue.

First of all, the Fall 2020-2021 term has completed with success despite the fact that we are going through extremely hard times due to the COVID-19 pandemic.

The faculty members' dedication to high quality teaching, synchronous and interactive lecture hours spent with students, and exemplary use of technology in our classes show that excellence in teaching is something we are used to achieve, pandemic or not. The Spring term will be no different, if not better.

We gladly see that FENS members are extremely active in writing project proposals and securing grants to further their research. In this issue, we list the names of our faculty members who are granted various prestigious TÜBİTAK and EU grants. We congratulate them and wish further success in their future project proposals.

This gives us a great deal of hope for Horizon Europe calls, for which we are organizing events for you. Please follow our announcements regarding those events, at which we expect your increased participation.

We heard all your valuable feedback and suggestions via "Research Survey" we conducted in the Fall, loud and clear, as well! Based on the survey results, we are currently carrying out one-to-one interviews to listen you further and we are busy with devising an action plan for improvement areas in research.

Our faculty members are influential in other realms of the academic life as well; receiving awards, becoming editors to prestigious journals, giving keynote speeches, organizing scientific events, writing cover page articles, etc. We also give a list of them in this issue and we extend our sincere congratulations to all those faculty members.

We are working hard and organizing many events to improve the faculty climate, to foster scientific research and improve outreach venues: our technology webinar series "Teknolojinin Gücüyle Geleceğe", "Sharing Experiences", "FENS Lounge Meetings", to name a few. Please check this issue for them. We only ask your participation as participating is contributing.

Also, we would like to bring to your attention that we are applying for MÜDEK accreditation of the five FENS undergraduate programs: CS, EE, IE and ME undergraduate programs for extension of another five years and MAT for the first time. We are now in the middle of a colossal effort to prepare the reports that are due beginning of July this summer. We would like to express our heartfelt gratitude to those contributing to the effort.

Note that the events, activities and news in this issue pertain to the time interval between November 1 and February 28. If we miss any project, activity, achievements of yours in this issue, please let us know so that we include them in the next issue.

We are here to build and sustain a vibrant, dynamic, collaborative community at FENS with wholehearted commitment to civility, transparency, diversity and inclusion. Your feedback on our efforts are always welcomed!

Once again, thank you all for your commitment and resilience during this difficult time.

I wish everyone a happy and healthy spring.



EU PROJECTS

We all know the importance of the EU funding and how competitive it is. Congratulations to our new EU projects and those who accomplished to go over the threshold. We will keep up the good work and will sure see more projects coming!

ERA-NET: Abdolali Khalili Sadaghiani- Ali Koşar- Ghazaleh Gharib

H2020 /Marie Skłodowska Curie Action: Nur Mustafaoğlu- Ali Koşar

European Joint Programme on Rare Diseases: Cavit Ağca

Over the Threshold

Ali Koşar, Bahattin Koç, Eralp Demir, Mehmet Yıldız- Fevzi Çakmak Cebeci, Murat Kaya Yapıcı-Yaşar Gürbüz, Mustafa Ünel, Nihat Gökhan Göğüş, Selmiye Alkan Gürsel- Serhat Yeşilyurt- Begüm Yazar- Alp Yürüm, Turgay Bayraktar- Michel Lavrauw, Yusuf Ziya Menciloğlu

TÜBİTAK PROJECTS

I am extremely happy to report that we continue to dominate the TÜBİTAK funding landscape with many new and upcoming projects.

TÜBİTAK 2247A Ulusal Lider Araştırmacı: Burak Kocuk, Murat Kaya Yapıcı, İsmail Çakmak

TÜBİTAK 1001: Ali Koşar, Berrin Yanıkoğlu, Bekir Bediz, Can Çalışkan- Yaşar Gürbüz, Emre Erdem, Erhan Budak-Kemal Kılıç, Gözde İnce , Kürşat Şendur, Lütfi Taner Tunç, Mohammad Sadek, Nurdagul Anbar Meidl, Öznur Taştan, Ünal Ertan, Yaşar Gürbüz- Can Çalışkan

TÜBİTAK KUTUP 1001: Emre Erdem

TÜBİTAK 3501: Amine Gizem Tiniç, Sinan Yıldırım, Yasemin Şengül Tezel

TÜBİTAK 1002: Burak Kocuk, Emre Erdem, Lütfi Taner Tunç, Onur Varol

TÜBİTAK 1005: Bekir Bediz, Özge Akbulut, Özgür Gürbüz

TÜBİTAK 2549 NCBR: Ömer Ceylan- Yaşar Gürbüz

TÜBİTAK 2523 NRF: Erhan Budak- Emre Özlü, Cem Güneri

TÜBİTAK 2209B: Ali Koşar- Abdolali Khalili Sadaghiani

TÜBİTAK 2508: Cleva Ow Yang- Mehmet Ali Gülgün- Meltem Sezen

TÜBİTAK 2518: Gökhan Göğüş

TÜBİTAK 1505: Adnan Kefal- Mehmet Yıldız, Emre Özlü-Kemal Kılıç

AWARDS & ACCOMPLISHMENTS

Nothing better than hearing the news of our members getting awarded for their hard work!

Albert Levi: T.C. Cumhurbaşkanlığı Bilim, Teknoloji ve Yenilik Politikaları Kurulu (BTYPK), Siber Güvenlik Teknoloji Yol Haritası Danışma Grubu Üyesi

Ali Koşar: TÜBA Associate Membership

Beste Basciftci: Best Paper Award in the 2020 IISE Transactions Focus Issue on Operations Engineering and Analytics

Esra Erdem: [Management Committee Member of COST Action - Distributed Knowledge Graphs](#)

Kağan Kurşungöz: ODTÜ Prof. Dr. Mustafa N. Parlar Eğitim ve Araştırma Vakfı Ödülleri - Araştırma Teşvik Ödülü

THE EDITORS

Congratulations to our new editors and good luck in their new challenging yet rewarding tasks!

Ali Koşar: Applied Thermal Engineering - Subject Editor

Christopher Mayack: [Uludağ Bee Journal - Language Editor](#)

Emrah Eroğlu: FRBM - Guest Editor

Emre Özlü: [Digital Manufacturing Technology - Editorial Board Member](#)

Esra Erdem: [Artificial Intelligence Journal - Associate Editor](#); [Theory and Practice of Logic Programming - Area Editor](#)

Michel Lavrauw: [Journal of Combinatorial Theory, Series A - Editor-in-Chief](#)

Meltem Elitaş: [Topic Board Member of Sensors Journal](#)

Nur Mustafaoğlu: [Shortlisted for scientific achievements category in Nature Research Awards for Inspiring and Innovating Science](#)

Selim Balcısoy: [Academic Advisory Board Member of TRAI](#)

Selmiye Alkan Gürsel: [The representative of SU for BEPA \(SU becomes the member of the Batteries European Partnership Association\)](#)

Lastly, special congratulations to our graduate student Moein Talebian Gevari for his article 'Deagglomeration of nanoparticle clusters in a cavitation-on-a chip device' with **Kürşat Şendur** and **Morteza Ghorbani** is now in the Most Read Article List in AIP Advances

Murat Kaya Yapıcı: [Sensors Journal - Topic Editor; Experimental Results - Reviewing Editor](#)

Nur Mustafaoğlu: [Micromachines- Topic Editor; Micromachines/ 3D in Vitro Tissue and Organ Models \(special Issue\) - Guest Editor](#)

KEYNOTES

We could not include all conferences and seminars our members participated recently due to space constraints here. Here is the list of the keynote speeches given by our faculty recently.

Albert Levi: [Istanbul Technical University, SINCONF 2020, 13th International Conference on Security of Information and Networks](#)

Ali Koşar: Biruni University, 3. BİGEN Congress

Christopher Mayack: [Istanbul University, 17th International Molecular Biology and Genetics Winter School](#)

Emrah Eroglu: King's College London

Michel Lavrauw: [Universita degli Studi della Campania, Galois geometries and their applications eseminars; University of Zurich, Codierungstheory und Kryptographie Seminar series](#)

Zafer Gedik: [Istanbul University, Department Seminar; Quantum Flagship, European Quantum Week](#)

SCIENTIFIC EVENTS ORGANIZED BY FACULTY

Even during this pandemic, our members continue organizing scientific events and keeping the circulation of the academic knowledge intact. Thank you for this Impressive work!

Adnan Kefal: [Integrated Manufacturing Webinar Series; Advanced Composite Manufacturing Webinar \(SU-IMC\)](#)

Bülent Çatay: [2020 IEEE Symposium on Computational Intelligence in Production and Logistics Systems](#)

İnanç Adagideli: Mete Atatüre Lecture Series (SU)

Meltem Elitaş: [Emerging Topics in Artificial Intelligence 2021 Conference \(SPIE\); Saturday Bioengineering Talks](#)

Murat Kaya Yapıcı: [Wearables for Health Monitoring Conference \(EMBECE\)](#)

Nur Mustafaoğlu: Neurobiology Journal Club

Öznur Taştan: [Asu Özdağlar Mini Lecture Series Webinar \(SU\)](#)

HOT TOPICS IN SCIENCE

Can Quantum AI Do Science?
Durmuş Ali Demir

The knowledge attained about the fundamental laws of nature seems to have reached a critical point in that further progress requires exploration of tantalizingly short and long distances. The requisite experiments are difficult to build and conduct with the existing technology. A solution to this difficulty, according to MIT's Tegmark

LATEST JOURNAL COVER

This beautiful cover deserves a face-to-face celebration which will hopefully happen soon, when the pandemic situation calms down. Many congratulations to all who made this happen!

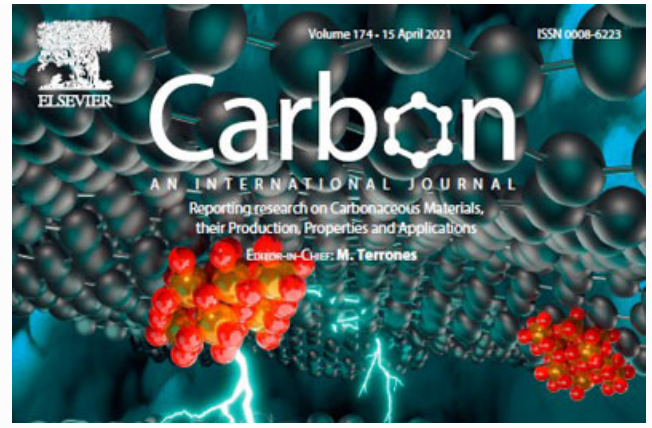
[1], is AI, which can rediscover the existing laws from the data and predict the new ones. This solution, despite its attractiveness, may have to wait for the development of quantum AI. And this advanced AI, which might be expected to solve even the enigmatic quantum gravity, is limited in design, according to Texas' Weinberg [1], by human intelligence. And its findings, argues IAS' Arkani-Hamed [1], may not have the depth and simplicity expected of a physical law.

[1] Dennis Overbye, Can Computers Devise a Theory of Everything?, New York Times (November 23, 2020).

Pandemic hit academic mothers especially hard, new data confirm **Selmiye Alkan Gürsel**

In the months after the pandemic started, most researchers worked fewer hours per day than usual. But parents—especially mothers—lost the most work time, according to a new study. Mothers also spent more time on child care and housework than fathers.

<https://www.sciencemag.org/careers/2021/02/pandemic-hit-academic-mothers-especially-hard-new-data-confirm>



The study titled "[High stability graphene oxide aerogel supported ultrafine Fe₃O₄ particles with superior performance as a Li-ion battery anode](#)" by Alp Yürüm, Selmiye Alkan Gürsel, Buse Bulut Köpüklü and Adnan Taşdemir will be featured on the April 2021 cover of the Carbon journal.

ATTENTION: MESSAGE FROM VICE DEAN OF EDUCATION, TONGUÇ ÜNLÜYURT!

CS, EE, IE and ME undergraduate programs of FENS are applying for the extension of accreditation for another 5 years to MÜDEK (Association for Evaluation and Accreditation of Engineering Programs) this year. In addition, MAT program is applying for MÜDEK accreditation for the first time. The preparations have already started and the reports are due in July 2021. MÜDEK is a member of European Network for Accreditation of Engineering Education and is a full signatory (member) of Washington Accord. In addition, MÜDEK is authorized to issue EUR-ACE Bachelor Label.



UPCOMING EVENTS

You asked for more events and we went all the way! There are many seminars, workshops, meetings coming up this Spring. Be prepared for more surprises!



TEKNOLOJİNİN GÜCÜYLE GELECEĞE

Mühendislik ve Doğa Bilimleri Fakültesi olarak,
"Teknolojinin Gücüyle Geleceğe" webinar serisi ile yarınlara
giden yeniliklerle dolu yolda teknolojinin ışığında ilerliyoruz.

**"Kuantum Bilgisayarlar
Sonrasında Siber Güvenlik"**
25 Mart Saat: 20:00
Mühendislik ve Doğa Bilimleri Fakültesi Dekan Eray Saray
Mühendislik ve Doğa Bilimleri Fakültesi Öğretim Üyesi Erdiç Öntürk

**"Veri ile Karar Verme: Yapay Zeka ve
Veri Analizinin Geçmişten Geleceğe
Hikayesi"**
2 Mart Saat: 20:00
Mühendislik ve Doğa Bilimleri Fakültesi Öğretim Üyesi
Berrin Yarıkoçlu, Kemal Kılıç, Selim Bakıcı

"Günlük Yaşamda Genom Bilimi"
16 Mart Saat: 20:00
Mühendislik ve Doğa Bilimleri Fakültesi Öğretim Üyesi
Oğün Adalı

**"Sağlık ve Biyoloji için
Yapay Öğrenme"**
23 Mart Saat: 20:00
Mühendislik ve Doğa Bilimleri Fakültesi Öğretim Üyesi
Özmar Taştan

**"Yenilenebilir ve Sürdürülebilir
Enerji Sistemleri"**
30 Mart Saat: 20:00
Mühendislik ve Doğa Bilimleri Fakültesi Öğretim Üyesi
Serhat Yeşilyurt

**"Enerji Çevrim ve Depolama
Teknolojileri"**
6 Nisan Saat: 20:00
Mühendislik ve Doğa Bilimleri Fakültesi Dekan Yardımcısı
Schnjye Akın Güneş

**"Yarıletken Tümevren Teknolojisi ve
Yaşamımızdaki Önemi"**
20 Nisan Saat: 20:00
Sabancı Üniversitesi Bakkalieri
Yunus Leblebici
Mühendislik ve Doğa Bilimleri Fakültesi Öğretim Üyesi
Melik Yazıcı

AKBANK Sabancı Üniversitesi Eczacıbaşı

#TeknolojininGücüyleGeleceğe
#TümGücümüzleGeleceğe

GRADUATE SEMINARS

Wednesdays at 13:30-14:30

Sabancı Üniversitesi GRADUATE SCHOOL OF
ENGINEERING AND
NATURAL SCIENCES

Sabancı Üniversitesi FACULTY OF
ENGINEERING AND
NATURAL SCIENCES

SPRING 2021
10:30A ET / 9:30A CT / 7:30A PT / 18:30
(or 17:30 AFTER MARCH 14) ISTANBUL

SEMINAR SERIES

APPLICATIONS OF ENGINEERING IN MEDICINE AND BIOLOGY

March 3	ERKİN ŞEKER, Ph.D. Associate Professor, Graduate Program Chair Department of Chemical and Computer Engineering University of California, Davis Nanoporous Gold: From an Ancient Material to Biomedical Devices	April 28	SUNITHA NAGRATH, Ph.D. Associate Professor, Department of Chemical Engineering University of Michigan, Ann Arbor Enabling Technologies for Implementing Liquid Biopsy CTCA to ETV
March 17	MELTEM ELİTAŞ, Ph.D. Associate Professor Mechanisms Program Subarea: Community Microbiological Tools for Quantitative Biology	May 26	REBECCA SANDLIN, Ph.D. Assistant Professor Center for Engineered Medicine and Surgery Hospitality, Genomics, and Advanced Medical School Biosensor-based Technologies for Social Health
March 31	CANAN DAĞDEVİREN, Ph.D. Assistant Professor, Massachusetts Institute of Technology ID, Career Development Professor of Media Arts and Science, Director of Creative Media Decoding and Media Lab What is Conformable Computing?	June 9	NUR MUSTAFAOĞLU, Ph.D. Assistant Professor Molecular Biology, Genetics and Bioprocessing Program and Mechanisms Program Sabancı University Brain Targeting Systems
April 14	ARUL JAYARAMAN, Ph.D. Professor, Chemical Engineering Fritz B. Rothberg Endowed Chair Carnegie Mellon University, Chemical Engineering Presidential Merit Fellow AFRL/RX Faculty, Biomedical Engineering Texas A&M University Microbial Transport, Microbiology and Gut Health		

#OurStrengthForTheFuture

Sabancı Üniversitesi

SUNUM SABANCI UNIVERSITY
NANOTECHNOLOGY RESEARCH
AND APPLICATION CENTER

ARTIS
WORKSHOP

COMMERCIALIZATION
OF RESEARCH OUTPUTS:
THEORY AND PRACTICE

With Sabancı University & SUNUM Teams and International Experts

APRIL 5 - JUNE 21, 2021
(10 Weeks)

Program Language: English
~4 hours a week for participation to workshop programs

Beyond Standard Model:
From Theory to Experiment
(BSM-2021)

BSM
29-31
March, 2021

Sponsored by Letters in High Energy Physics (LHEP)

Sabancı Üniversitesi

CS+X Seminars

FENS, Spring 2021

At Sabancı University, we seek unique ways to
collaborate and bridge across interdisciplinary
boundaries by "connecting the dots". CS+X series aims to
highlight research projects that use computation to
address ambitious questions.

#ComputingConnectsTheDots #CSPlusXForCuriousMinds

HIGHLIGHTS OF THE FALL

Our latest get-together, **Dean's Reception** has been quite helpful in updating each other on latest developments and understanding our overall vision. We will continue to have this one in coming months.



Our major endeavor in last Fall, the **Research Survey** has been immensely successful. Thank you again for the high participation rate. You will be hearing about this survey in coming months since we work very hard on the data collected and the action plans for improvement.

SHARING EXPERIENCES SPRING LINE-UP

It's all about panels! We have been working hard to prepare the spring lineup for the Sharing Experiences. There will be panel discussions giving opportunity to our faculty to exchange best-practices and know-how on certain topics that you all expressed as the most critical in the Research Survey.

We are also very excited for a new workshop series starting this Spring: **SU Horizons**. In collaboration with ALP, we will be having carefully designed sessions on EU Projects, from technical know-how to best practices.

Stay tuned...



APPROACHING DEADLINES

NEURON ERANET 2021 Call: Neurodevelopmental Disorders
Deadline: 09 March 2021

Flagera 2021 Call
Deadline: 19 April 2021

TÜBİTAK (ERA-NET): FLAG-ERA 3
Deadline: April 30, 2021

ICT-Agrifood 2021 Call on "Circularity in mixed crop and livestock farming systems, with emphasis on greenhouse gas mitigation"
Deadline: March 2021



DEAN'S READING RECOMMENDATION

[Türkiye'nin uzaya açılan kapısı: Uzay limanı, Ersin Göğüş](#)

[Yıldızların Fiziği, Ali Alpar](#)

[Where did COVID come from? Five mysteries that remain](#)

[Scientists want virtual meetings to stay after the COVID pandemic](#)

[ABD'de ilklere imza atan Türk akademisyene göre, kadınların eğitilmesi geleceęe yapılacak en önemli yatırım, Mihri Özkan](#)

["We read the paper that forced Timnit Gebru out of Google. Here's what it says" by Karen Hao, Technology Review](#)

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