

## 3 Good Health and Well-Being

### TEDU supports students and employees' coping with the pandemic

TED University Coronavirus Psycho-Social Support Team, TEDU COPES, was established to serve our University students and staff during the COVID-19 pandemic; It is a psychosocial support group that aims to facilitate coping with the difficulties in psychological, social, familial and academic/professional life that may arise due to the conditions brought by the epidemic.

TEDU COPES is an organization that came together voluntarily under the coordination of TEDU Psychology Department, but aims to provide professional service.

The main purpose of TEDU COPES is to provide psychosocial support to TED University students and staff during the coronavirus epidemic. In this context, it aims to provide early support to crisis situations that may arise during the coronavirus epidemic, to activate and strengthen your coping strategies and resources, and to provide information on your access to necessary resources.

TEDU COPES, which has been serving since May 15, 2020, still continues its psychosocial support activities.

More: <https://copes.tedu.edu.tr/copes-hakkinda>

Official Instagram address: <https://www.instagram.com/teducopes/>

### Recovering the collective trauma of kids and families

Assoc. Prof. Dr. Iğın Gökler Danışman gave training on "The Effects of Collective Trauma on Child and Family and Psychosocial Intervention Approach" within the scope of the International Trauma Studies Program.

The aim of the International Trauma Studies Certificate Program, created by World Human Relief (WHR) in cooperation with the International Trauma Studies Program operating in New York since 1997, is to train trauma experts who will work effectively with a trauma-sensitive society and trauma.

More: <https://www.instagram.com/p/CL7yAKugWnR/?igshid=MGMzMDdjNjc%3D>

### Paths to develop growth mindset in children

"Growth Mindset Development Paths in Children in the Light of Neuroscience," certificate program as part of the TEDU Education Faculty-Student Development Assistance Program, which was directed by Dr. Elif Oguz, was held on November 11, 2021. In this highly demanded program, our students will examine the relationship between the brain and learning from many different aspects such as attention, motivation and problem-solving skills for eight weeks. We wish all of our participating students the best of luck in learning process about 'growth mindset' activities.

More: <https://ele.tedu.edu.tr/en/ele/agenda/news/growth-mindset-development-patha-session-1-has-been-done>

## Contributing to Neuroscience and Terotechnology Excellence Center

Dr. Kutluk Bilge Arıkan was accepted to the research network of Neuroscience and Neurotechnology Excellence Joint Application and Research Center (NEUROM).

NEUROM's mission is to establish a national neuroscience research infrastructure open to all researchers. By processing cyclical neuroscience data obtained from biological or artificial systems with computational neuroscience methods, NEUROM aims to unravel the mystery of the human brain, to define diagnostic and therapeutic biotargets, to develop innovative devices, artificial intelligence applications, neurochip, system/disease models, as well as to create an educational platform for the neuroscience ecosystem.

More: <https://norom.gazi.edu.tr/view/page/287043/network-of-researchers>

## Solutions to the problem of chemo therapy appointment scheduling

Dr. Serhat Gul co-authored research "A stochastic programming approach for chemo therapy appointment scheduling" was published on Naval Research Logistics' Special Issue: Health Care Operations Management.

More: <https://onlinelibrary.wiley.com/doi/full/10.1002/nav.21952>

Dr. Serhat Gül also discussed the problems related to chemotherapy appointment scheduling through nurses. His research "Chemotherapy appointment scheduling under uncertainty by considering workload balance among nurses" was published on Pamukkale University Journal of Engineering Sciences.

More: <http://pajes.pau.edu.tr/en/jvi.aspx?un=PAJES-40121&volume=27&issue=4>

## More research on hospital scheduling

Dr. Sirma Arakaya, Dr. Serhat Gül and Dr. Melih Çelik's research "Stochastic Scheduling of Chemotherapy Appointments Considering Patient Acuity Levels" was published on Optimization Online.

More: <https://optimization-online.org/2021/09/8584/>

Dr. Serhat Gul co-authored research "A Stochastic Programming Approach To Surgery Scheduling Under Parallel Processing Principle" on <https://arxiv.org/abs/2112.15203>

The screenshot shows the arXiv preprint page for the paper "A Stochastic Programming Approach to Surgery Scheduling under Parallel Processing Principle" by Batuhan Celik, Serhat Gul, and Melih Celik. The page is from the "Mathematics > Optimization and Control" category and was submitted on 30 Dec 2021. The abstract describes a two-stage stochastic mixed-integer programming model for scheduling surgeries under uncertainty, aiming to minimize the expected total cost of patient waiting time, OR idle time, and IR idle time. The authors propose a novel progressive hedging algorithm and compare it with several scheduling heuristics. The paper is available in PDF, PostScript, and other formats. The page also includes a search bar, navigation links, and a list of references and citations.

**Mathematics > Optimization and Control**  
[Submitted on 30 Dec 2021]  
**A Stochastic Programming Approach to Surgery Scheduling under Parallel Processing Principle**  
Batuhan Celik, Serhat Gul, Melih Celik

Parallel processing is a principle which enables simultaneous implementation of anesthesia induction and operating room (OR) turnover with the aim of improving OR utilization. In this article, we study the problem of scheduling surgeries for multiple ORs and induction rooms (IR) that function based on the parallel processing principle under uncertainty. We propose a two-stage stochastic mixed-integer programming model considering the uncertainty in induction, surgery and turnover durations. We sequence patients and set appointment times for surgeries in the first stage and assign patients to IRs at the second stage of the model. We show that an optimal myopic policy can be used for IR assignment decisions due to the special structure of the model. We minimize the expected total cost of patient waiting time, OR idle time and IR idle time in the objective function. We enhance the model formulation using bounds on variables and symmetry-breaking constraints. We implement a novel progressive hedging algorithm by proposing a penalty update method and a variable fixing mechanism. Based on real data of a large academic hospital, we compare our solution approach with several scheduling heuristics from the literature. We assess the additional benefits and costs associated with the implementation of parallel processing using near-optimal schedules. We examine how the benefits are inflated by increasing the number of IRs. Finally, we estimate the value of stochastic solution to underline the importance of considering uncertainty in durations.

Subjects: **Optimization and Control** [math.OC]  
Cite as: [arXiv:2112.15203](https://arxiv.org/abs/2112.15203) [math.OC]  
(or [arXiv:2112.15203v1](https://arxiv.org/abs/2112.15203v1) [math.OC] for this version)  
<https://doi.org/10.48550/arXiv.2112.15203>

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## Academic Activity List of SDG3

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YAŞAR B., THE FINANCIAL IMPACT OF COVID-19 ON STOCK MARKETS: EVIDENCE FROM BIST 100 INDEX, IV. INTERNATIONAL CONFERENCE ON COVID-19 STUDIES, 17 - 19 Nisan 2021 , <b>International , Conference Paper.</b>
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ÇELİK K., TURAN S., ÜNER S., İm a mother, therefore I question: Parents' legitimation sources of and hesitancy towards early childhood vaccination, SOCIAL SCIENCE & MEDICINE, cilt.282, 2021 , <b>International , Article.</b>
YIĞİT İ., Bayramoglu Y., Weiser S. D. , Johnson M. O. , Mugavero M. J. , Turan J. M. , Turan B., Disclosure Concerns and Viral Suppression in People Newly Initiating HIV Care: The Role of Internalized HIV Stigma, JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES, cilt.86, sa.4, ss.406-412, 2021 , <b>International , Article.</b>
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AKIPEK ÖCAL Ş., Covid-19 Salgınının Kira Sözleşmelerine Etkisi , <b>National , Conference Paper.</b>
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Okay D., GÖKLER DANIŞMAN I., Özcan Camgöz M., Bağış N., Pandemi döneminde diş hekimliği öğrencilerinin psikolojik iyilik hallerinin çeşitli psikososyal değişkenler yönünden incelenmesi; 50th International Scientific Congress of the Turkish Society of Periodontology. , <b>International , Conference Paper.</b>
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- DEMİR E., Çin Komünist Partisi'nin Covid-19 ile Mücadelesi ve Covid-19 Diplomasisi , **National , Conference Paper.**
- DEMİR E., Covid-19 Salgını: Ülke Deneyimleri, Bölgesel Etkiler ve Küresel Yansımalar, Nika Yayınevi, Ankara, 2021 , **National , Book.**
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