

Asst. Prof. Şehram Dizeci

Personal Information

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International Researcher IDs

ScholarID: 9567640816513846146

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Publons / Web Of Science ResearcherID: H-6507-2016

ScopusID: 57191371328

Yoksis Researcher ID: 259082

Biography

Dr. Shahram A. Dizaji graduated in mechanical engineering from one of the most reputable universities in IRAN, University of Tabriz, in 2005. He received his Master of Science in Mechanical Engineering from Iran University of Science and Technology working on hydroforming of Aluminium and Titanium alloy sheets. As the output of this research, a novel hydroforming method for Al and Ti sheets was developed and patented eventually. In 2014 he got his Ph.D. degree in Mechanical Eng. from Middle East Technical University (METU/Turkey) studying Ductile Fracture Criteria for sheet metal forming.

After his Ph.D., Dr. Dizaji started to work as a research and development (R&D) advisor in METU technopark where he participated as researcher and project manager in different research projects related to the design, manufacturing, and FEM analyses of solar power plants, laser-assisted micro-machining, and laser-based metrology.

Dr. Dizaji is working at TED university since 2016 and he is teaching different solid mechanic courses. In 2017 and 2019, his two different projects obtained support from Technopolis of Ankara University and KOSGEB (Innovation and Industrial Application Support Program) as mid-scale projects. In 2022 his project "Developing an Inclusive Damage Model in Adhesively- Bonded Dissimilar Materials " got supported for 30 months within the scope of the TÜBİTAK 3501 Career Development Program.

His fields of interest can be summarized as Nanoparticle Reinforced Composites, Metal Forming, Damage in Materials, and Advanced Manufacturing.

https://www.researchgate.net/profile/Shahram_ADizaji

Education Information

Doctorate, Middle East Technical University, Turkey 2009 - 2014

Postgraduate, Iran University of Science and Technology, Iran 2005 - 2008

Undergraduate, University of Tabriz, Iran 2001 - 2005

Foreign Languages

Foreign Languages

Azerbaijani

Persian

Turkish

Arabic

English

Research Areas

Material, Plastic Forming Methods, Solid Mechanics, Mechanical Testing, Material Characterization, Nanomaterials

Academic Titles / Tasks

Assistant Professor, TED University, Faculty of Engineering, Department of Mechanical Engineering, 2016 - Continues

Assistant Professor, 2016 - Continues

Academic and Administrative Experience

Department web committee member, TED University, 2021 - Continues

TEDU-PEK lisans ve lisansüstü Programlar ve Eğitim Komisyonunu, 2020 - Continues

IAESTE Coordinator of the University, TED University, Ted University, 2018 - Continues

Website and Social Media Coordinator of the Department, 2017 - Continues

Departmental Erasmus Coordinator, TED University, Ted University, 2016 - Continues

Courses

Senior Project, Undergraduate

Mechanics of Materials, Undergraduate, 2022 - 2023

Computer Aided Technical Drawing, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Computer Aided Design and Manufacturing, Undergraduate, 2021 - 2022

Manufacturing Processes, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Design and Manufacturing, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Master's Thesis II, Postgraduate, 2022 - 2023, 2021 - 2022

Introduction to Solid Mechanics, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Master's Thesis I, Postgraduate, 2021 - 2022

Master's Thesis II, Postgraduate, 2019 - 2020

Fundamentals of Metal Forming, Undergraduate, 2019 - 2020

Master's Thesis I, Postgraduate, 2019 - 2020

Experimental Engineering, Undergraduate, 2018 - 2019, 2017 - 2018

Calculus of One Variable, Undergraduate, 2016 - 2017

Jury Memberships

January, 2021

January, 2020
December, 2019
December, 2019
September, 2019
June, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluation of Post Necking Behavior of Metals Using Stress Wave Propagation Technique**
Dizeci Ş.
Transactions of the Indian Institute of Metals, vol.76, no.11, pp.3087-3094, 2023 (SCI-Expanded)
- II. **Bonding dissimilar materials via adhesively bonded spot-welded joints: cohesive zone model technique**
Paygozar B., Dizeci Ş., da Silva L.
Journal of Adhesion Science and Technology, vol.34, no.21, pp.2352-2363, 2020 (SCI-Expanded)
- III. **Prediction of forming limit curve at fracture for sheet metal using new ductile fracture criterion**
Dizeci Ş., DARENDELİLER H., Kaftanoğlu B.
European Journal of Mechanics, A/Solids, vol.69, pp.255-265, 2018 (SCI-Expanded)
- IV. **Effect of hardening models on different ductile fracture criteria in sheet metal forming**
Dizeci Ş., DARENDELİLER H., Kaftanoğlu B.
International Journal of Material Forming, vol.9, no.3, pp.261-267, 2016 (SCI-Expanded)
- V. **Deep drawing of aluminum alloys using a novel hydroforming tooling**
Djavanroodi F., Dizeci Ş., Nezami E. H.
Materials and Manufacturing Processes, vol.26, no.5, pp.796-801, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effects of Silica/Clay Nanoparticles on Microstructural and Mechanical Properties of Epoxy Based Adhesives**
Dizeci Ş., Kandemir A. Ç.
Hacettepe Journal of Biology and Chemistry, vol.2, no.51, pp.153-161, 2023 (Peer-Reviewed Journal)
- II. **Hibrit Sismik Sönümleyicinin Enerji Emilimi Üzerindeki Etkilerin İncelenmesi**
Ersan Y., Bağbaşı A. S., Paygozar B., Dizeci Ş.
Makina Tasarım ve İmalat Dergisi, vol.19, no.1, pp.35-40, 2021
- III. **Combined hardening parameters of steel CK45 under cyclic strain controlled loading: Calibration methodology and numerical validation**
Paygozar B., Dizeci Ş., Saeimi Sadigh M.
Journal of Mechanical Engineering and Sciences, vol.14, no.2, pp.6848-6855, 2020 (ESCI)
- IV. **Su Sızdırmaz Geomembran Levha Kaynağında Yeni Geliştirilen Teknolojilerin Uygulanması**
Dizeci Ş.
DSİ Teknik Dergi, vol.133, pp.12-19, 2020
- V. **Experimental and Numerical analysis for hydroforming of Ti6Al4V alloy used in Aerospace, assisted by floating disk**
Nezami Esfahlan H., Dizeci Ş., Djavanroodi F.
Journal of Applied Sciences, vol.9, no.16, pp.2925-2932, 2009 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Numerical Determination Of The Necking Phenomenon Using Stress Wave Propagation Technique**
Dizeci Ş., Paygozar B.
19 th International Conference on Machine Design and Production, Nevşehir, Turkey, 1 - 03 September 2022, pp.317-324
- II. **A study on the constitutive equation effects in the fracture initiation of AA5450 sheets**
Dizeci Ş., DARENDELİLER H., Kaftanoğlu B.
7th International Conference on Fracture Fatigue and Wear, FFW 2018, Ghent, Belgium, 9 - 10 July 2018, pp.78-83
- III. **Investigating Energy Absorption Accessible by Plastic Deformation of a Seismic Damper Using Artificial Neural Network**
Paygozar B., Dizeci Ş.
1st International Workshop on Plasticity, Damage and Fracture of Engineering Materials, IWPDF 2019, Ankara, Turkey, 22 - 23 August 2019, vol.21, pp.138-145
- IV. **On the fracture prediction of 304L stainless steel sheets utilizing different hardening models**
Dizeci Ş., DARENDELİLER H., Kaftanoğlu B.
10th International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Processes, NUMISHEET 2016, Bristol, England, 4 - 09 September 2016, vol.734
- V. **Effect Of Anisotropy on the Hydroforming of Aluminum Alloy AA6061-T6 Using Newly Developed Method**
Dizeci Ş., Djavanroodi F., Haluk D.
- VI. **Effect of punch nose radii in the hydroforming of Titanium alloy Ti-6Al-4V**
Dizeci Ş., Djavanroodi F.
- VII. **Effect of ambient pressure on bubble growth in micro-channel and its pumping effect**
Mobadersani F., Eskandarzade M., Azizi S., Dizeci Ş.
ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, ESDA2010, İstanbul, Turkey, 12 - 14 July 2010, vol.5, pp.577-584
- VIII. **Obtaining the flow stress curve of Aluminum alloy sheet, Al7075, from hydraulic bulge test**
Dizeci Ş., Djavanroodi F., Tutunchi A.
5th International Conference and Exhibition on Design and Manufacturing of Machines and Dies/Molds, Turkey, 05 June 2009
- IX. **A new experimental method for hydro mechanical deep drawing of titanium alloy Ti6Al4V**
Dizeci Ş., Nezami H., Djavanroodi F.
- X. **Experimental and numerical analysis for hydroforming of aluminum alloys, Al7075, assisted by floating disk**
Dizeci Ş., Nezami h., Djavanroodi F.

Supported Projects

Yalçıntaş S., Yücel S. D., Çabuk S., Güravşar Gökçe S., Yaşar B., Yılmaz Z., Dizeci Ş., European Institute of Innovation & Technology (EIT), HIVE: "HEI Innovation for Knowledge Intensive Entrepreneurship" , 2022 - 2024

Dizeci Ş., Kandemir A. Ç., TUBITAK Project, "Farklı Malzemelerin Yapıştırılmasında Kapsayıcı Hasar Tespit Modelinin Geliştirilmesi", 2022 - 2024

Kandemir A. Ç., Dizeci Ş., TUBITAK Project, Biyolojik Sistemlerden Esinlenmiş Hiyerarşik Ölçekli ve Parçaçık Yoğunluğuna göre Değişen Polimer Kompozit Üretimi, 2019 - 2022

Alizade M., DIZECI Ş., KOSGEB, "GeoBig:Ağır-İş Plastik Kaynak Robotu", 2019 - 2021

Pay Gozar S. B., Dizeci Ş., Project Supported by Higher Education Institutions, Stress wave propagation in metallic materials with different failure modes, 2019 - 2020

Ersan Y., Bagbasi A. S., Dizeci Ş., Project Supported by Higher Education Institutions, Kinematic Energy Absorption Capacity of Structure, 2019 - 2019

DIZECI Ş., KOSGEB, PlaWel: Yeni Nesil Plastik Kaynak Robotu, 2018 - 2019

Activities in Scientific Journals

JOURNAL OF COMPOSITE MATERIALS, Evaluation Committee Member, 2022 - Continues

Scientific Refereeing

JOURNAL OF COMPOSITE MATERIALS, National Scientific Refreed Journal, December 2022

Makina Tasarım ve İmalat Dergisi, National Scientific Refreed Journal, January 2022

International Advanced Researches and Engineering Journal, January 2021

INTERNATIONAL JOURNAL OF MATERIAL FORMING, July 2020

Gazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, July 2020

Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, March 2020

Scientific Research / Working Group Memberships

Tubitak 3501 Project, TED University, Türkiye, <https://me.tedu.edu.tr/multiscaled-composites>, 2019 - Continues

Investigation Of The Nano Particles Effects On The Adhesive-Bonded Joints, TED University, Türkiye,

<https://me.tedu.edu.tr/multiscaled-composites>, 2019 - Continues

Design and manufacturing of Microinjection unit for TEDU Laboratory, 2020 - 2020