

Doç.Dr. Erkan Günpınar

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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Eğitim Bilgileri

Doktora, Tokyo University, Precision Engineering, Japonya 2010 - 2013

Yüksek Lisans, Korean Advanced Institute Of Science And Technology, Mechanical Engineering, Güney Kore 2004 - 2006

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Türkiye 1998 - 2003

Yabancı Diller

İngilizce

Yaptığı Tezler

Doktora, Feature-aware Partitioning of Quadrilateral Meshesfor Reverse Engineering, Tokyo Üniversitesi, Precision Engineering, 2013

Yüksek Lisans, Interfacing heterogeneous PDM systems by PLM Services for design collaboration, Korean Advanced Institute Of Science And Technology, Mechanical Engineering, 2006

Araştırma Alanları

Teknik Bilimler, Makina Mühendisliği, Konstrüksiyon ve İmalat, Bilgisayar Destekli Tasarım ve İmalat

Akademik Unvanlar / Görevler

Doç.Dr., İstanbul Teknik Üniversitesi, Makina, Makina Mühendisliği, 2019 - Devam Ediyor

Dr.Öğr.Üyesi, İstanbul Teknik Üniversitesi, Makina, Makina Mühendisliği, 2018 - 2019

Yrd.Doç.Dr., İstanbul Teknik Üniversitesi, Makina, Makina Mühendisliği, 2012 - 2018

Verdiği Dersler

Advanced Mesh Processing, Lisans, 2016 - 2017

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Mechanical property estimation for additive manufacturing parts with supports**
Günaydın E., Günpınar E.
International Journal of Advanced Manufacturing Technology, cilt.129, sa.9-10, ss.4031-4044, 2023 (SCI-Expanded)
- II. **G-Puzzle: Infilling 3D Models With Reinforced G-Lattices**
Armanfar A., Üstündağ E., Günpınar E.
Journal of Mechanical Design, Transactions of the ASME, cilt.145, sa.10, 2023 (SCI-Expanded)
- III. **Exploration of 3D motorcycle complexes from hexahedral meshes**
Günpınar E., Livesu M., Attene M.
Computers and Graphics (Pergamon), cilt.114, ss.105-115, 2023 (SCI-Expanded)
- IV. **Fluid Flow-inspired Curvature-aware Print-paths from Hexahedral Meshes for Additive Manufacturing**
Cam S., Günpınar E.
CAD Computer Aided Design, cilt.159, 2023 (SCI-Expanded)
- V. **G-Lattices: A Novel Lattice Structure and Its Generative Synthesis Under Additive Manufacturing Constraints**
Armanfar A., Günpınar E.
Journal of Mechanical Design, Transactions of the ASME, cilt.145, sa.1, 2023 (SCI-Expanded)
- VI. **Helical5AM: Five-axis parametrized helical additive manufacturing**
Günpınar E., Armanfar A.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, cilt.304, 2022 (SCI-Expanded)
- VII. **4 and 5-Axis additive manufacturing of parts represented using free-form 3D curves**
Günpınar E., Cam S.
GRAPHICAL MODELS, cilt.120, 2022 (SCI-Expanded)
- VIII. **SplineLearner: Generative learning system of design constraints for models represented using B-spline surfaces**
Taşmektepligil A. A., Günpınar E.
Advanced Engineering Informatics, cilt.51, 2022 (SCI-Expanded)
- IX. **Curvature and Feature-Aware Print-Paths from Hexahedral Meshes for Additive Manufacturing**
Günpınar E.
CAD Computer Aided Design, cilt.141, 2021 (SCI-Expanded)
- X. **A multi-criteria based selection method using non-dominated sorting for genetic algorithm based design**
Günpınar E., Khan S.
OPTIMIZATION AND ENGINEERING, cilt.21, sa.4, ss.1319-1357, 2020 (SCI-Expanded)
- XI. **GenYacht: An interactive generative design system for computer-aided yacht hull design**
Khan S., Günpınar E., ŞENER B.
OCEAN ENGINEERING, cilt.191, 2019 (SCI-Expanded)
- XII. **Evolving a Psycho-Physical Distance Metric for Generative Design Exploration of Diverse Shapes**
Khan S., Günpınar E., Moriguchi M., Suzuki H.
JOURNAL OF MECHANICAL DESIGN, cilt.141, sa.11, 2019 (SCI-Expanded)
- XIII. **A user-centered side silhouette generation system for sedan cars based on shape templates**
Günpınar E., Ovrur S. E., Gunpinar S.
OPTIMIZATION AND ENGINEERING, cilt.20, sa.3, ss.683-723, 2019 (SCI-Expanded)
- XIV. **A generative sampling system for profile designs with shape constraints and user evaluation**
Dogan K. M., Suzuki H., Günpınar E., Kim M.
COMPUTER-AIDED DESIGN, cilt.111, ss.93-112, 2019 (SCI-Expanded)
- XV. **A Generative Design and Drag Coefficient Prediction System for Sedan Car Side Silhouettes based on Computational Fluid Dynamics**

- Günpınar E., Coşkun U. C., Özsipahi M., Gunpinar S.
COMPUTER-AIDED DESIGN, cilt.111, ss.65-79, 2019 (SCI-Expanded)
- XVI. **Eye tracking for screening design parameters in adjective-based design of yacht hull**
Doğan K. M., SUZUKI H., Günpınar E.
OCEAN ENGINEERING, cilt.166, ss.262-277, 2018 (SCI-Expanded)
- XVII. **Sampling CAD models via an extended teaching-learning-based optimization technique**
Khan S., Günpınar E.
COMPUTER-AIDED DESIGN, cilt.100, ss.52-67, 2018 (SCI-Expanded)
- XVIII. **A shape sampling technique via particle tracing for CAD models**
Günpınar E., Gunpinar S.
GRAPHICAL MODELS, cilt.96, ss.11-29, 2018 (SCI-Expanded)
- XIX. **Learning yacht hull adjectives and their relationship with hull surface geometry using GMDH-type neural networks for human oriented smart design**
Dogan K. M., Günpınar E.
OCEAN ENGINEERING, cilt.145, ss.215-229, 2017 (SCI-Expanded)
- XX. **AN EXTENDED LATIN HYPERCUBE SAMPLING APPROACH FOR CAD MODEL GENERATION**
Khan S., Günpınar E.
ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY - A Applied Sciences and Engineering, cilt.18, sa.2, ss.301-314, 2017 (SSCI)
- XXI. **A novel design framework for generation and parametric modification of yacht hull surfaces**
Khan S., Günpınar E., Doğan K. M.
OCEAN ENGINEERING, cilt.136, ss.243-259, 2017 (SCI-Expanded)
- XXII. **Motorcycle graph enumeration from quadrilateral meshes for reverse engineering**
Günpınar E., Moriguchi M., SUZUKI H., OHTAKE Y.
COMPUTER-AIDED DESIGN, cilt.55, ss.64-80, 2014 (SCI-Expanded)
- XXIII. **Feature-aware partitions from the motorcycle graph**
Gunpinar E., Moriguchi M., SUZUKI H., OHTAKE Y.
COMPUTER-AIDED DESIGN, cilt.47, ss.85-95, 2014 (SCI-Expanded)
- XXIV. **Generation of bi-monotone patches from quadrilateral mesh for reverse engineering**
Gunpinar E., SUZUKI H., OHTAKE Y., Moriguchi M.
COMPUTER-AIDED DESIGN, cilt.45, sa.2, ss.440-450, 2013 (SCI-Expanded)
- XXV. **Interfacing heterogeneous PDM systems using the PLM Services**
Gunpinar E., HAN S.
ADVANCED ENGINEERING INFORMATICS, cilt.22, sa.3, ss.307-316, 2008 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Computer sand art**
Günpınar E., Asman S., Elber G.
Computer-Aided Design and Applications, cilt.18, sa.1, ss.1-23, 2020 (Scopus)
- II. **A K-MEANS CLUSTERING BASED SHAPE RETRIEVAL TECHNIQUE FOR 3D MESH MODELS**
REZAEİ M., GÜNPINAR E.
Selçuk Üniversitesi Mühendislik, Bilim ve Teknoloji Dergisi, cilt.6, ss.114-128, 2018 (Hakemli Dergi)
- III. **A two-dimensional bin packing-based split-and-pack approach for decomposing large three-dimensional structures into convex items**
Günpınar E.
Computer-Aided Design and Applications, cilt.15, sa.1, ss.11-24, 2018 (Scopus)
- IV. **TERSİNE MÜHENDİSLİK YOLUYLA ÜÇ BOYUTLU GEOMETRİK MODELİN OLUŞTURULMASI VE GEMİ YAPIM ENDÜSTRİSİNDEKİ BAZI UYGULAMALARI**
Günpınar E.

Desteklenen Projeler

- Günpınar E., Armanfar A., Yükseköğretim Kurumları Destekli Proje, Katmanlı İmalat Ürünlerinin Mekanik Özelliklerinin Yenilikçi Dolgu ve Dilimleme Yöntemleri ile Geliştirilmesi, 2021 - 2023
- Günpınar E., Yükseköğretim Kurumları Destekli Proje, Beş eksenli eklemeli imalat için üç boyutlu bir modelin düzlemsel olmayan eğrilik bazlı eğriler ile baskı yollarının üretilmesi, 2020 - 2022
- Günpınar Ş., Günpınar E., TÜBİTAK Projesi, Ağız Hijyen Motivasyonu İçin Hastaya Özgü Olası Dişeti Sorunlarının Öngörülmesi ve Bilgisayar Destekli Demonstrasyonu, 2019 - 2022
- Günpınar E., TÜBİTAK Projesi, Müşteri Tercihini ve Araç Sürüklemeye Katsayısını Dikkate Alarak Araba Yan Profilinin İnteraktif Olarak Tasarımı, 2016 - 2018
- Günpınar E., Yükseköğretim Kurumları Destekli Proje, CUSTOMER-CENTERED SHAPE RECOMMENDER FOR CAR BODY DESIGN, 2015 - 2018
- Günpınar E., TÜBİTAK Projesi, GEMİ GÖVDESİNİN HIZLI KOLAY VE VERİMLİ BİR ŞEKİLDE ÜRETİMİ İÇİN ÜRETİLEBİLİR LEVHALARA AYRIŞTIRILMASI, 2014 - 2016

Metrikler

- Yayın: 49
- Atıf (WoS): 79
- Atıf (Scopus): 96
- H-İndeks (WoS): 6
- H-İndeks (Scopus): 6

Akademi Dışı Deneyim

Samsung Heavy Industries