

## **Assoc. Prof. SELİM HARTOMACIOĞLU**

### **Personal Information**

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### **International Researcher IDs**

ScholarID: QCzRWJ4AAAAJ

ORCID: 0000-0002-4541-4894

Publons / Web Of Science ResearcherID: AAA-4960-2019

ScopusID: 56008548900

Yoksis Researcher ID: 57926

### **Education**

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Makine Mühendisliği (Yıl) (Tezli), Turkey 2011 - 2016

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Makine Eğitimi (Yıl) (Tezli), Turkey 2009 - 2011

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, Turkey 2002 - 2006

### **Foreign Languages**

English, B1 Intermediate

### **Dissertations**

Doctorate, Production of B4C based blast nozzle via powder injection molding and examination of their wear properties, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Makine Mühendisliği (Yıl) (Tezli), 2016

Postgraduate, Serbest şekilli yüzeylerin işlenmesinde kesici takım geometrisinin yüzey pürüzlülüğü ve şekil hatasına etkisi, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Makine Eğitimi (Yıl) (Tezli), 2011

### **Research Areas**

Mechanical Engineering, Construction and Manufacturing, Engineering and Technology

### **Academic Positions**

Assistant Professor, Marmara University, Faculty of Technology, Mechanical Engineering, 2019 - Continues  
Research Assistant, Marmara University, Faculty of Technology, Mechanical Engineering, 2015 - 2019

Research Assistant, Marmara University, Faculty of Technical Education, Machine Education, 2009 - 2015  
Expert, Hacettepe University, Mühendislik Fakültesi, Otomotiv Mühendisliği Bölümü, 2007 - 2009

## Courses

### Postgraduate

Deneysel Tasarım, Postgraduate, 2019 - 2020

### Undergraduate

Yeni Ürün Geliştirme, Undergraduate, 2019 - 2020

Deneysel Tasarım, Undergraduate, 2019 - 2020

Modern İmalat Teknikleri ve Yaklaşımları, Undergraduate, 2018 - 2019

Bilgisayar Destekli Tasarım, Undergraduate, 2018 - 2019

## Supervised Theses

Hartomacioğlu S., Cam Karbon Kumaş ve Polipropilen Takviyeli Hibrit Kompozitlerin Mekanik Özelliklerinin Araştırılması ve Analizi, Postgraduate, Y.HÜSEYİN(Student), 2023

Hartomacioğlu S., Boyraz C., Gergi Kontrol Sistemlerinde Kullanılan Elektromanyetik Frenlerin Tasarım Parametrelerinin Optimizasyonu, Postgraduate, M.Ergüneş(Student), 2023

Hartomacioğlu S., Elektromanyetik kavramaların tasarım parametrelerinin analitik ve nümerik yöntemlerle optimizasyonu, Postgraduate, M.ÖZDEMİR(Student), 2022

Hartomacioğlu S., Alüminyum Enjeksiyon Kalıplama Sektöründe Üretim Yürütmeye Sisteminin Uygulanması, Postgraduate, R.OZAN(Student), 2022

Ay M., Hartomacioğlu S., ÇELİK DİRSEK BORULARIN ÜRETİM PROSESİNİN SONLU ELEMANLAR ANALİZİ YÖNTEMİ İLE MODELLENMESİ VE ÜRETİM PARAMETRELERİNİN OPTİMİZASYONU, Postgraduate, Ş.SARAÇ(Student), 2021

Güngör F., Hartomacioğlu S., Takım Çeliğinden (AISI 4340) Farklı İki Yöntemle Üretilen Takım Tutucularının Kesme Anındaki Performanslarının Deneysel Olarak Karşılaştırılarak, Uygun Takım Seçimine Karar Verilmesi, Postgraduate, E.YILMAZ(Student), 2019

## Journal articles indexed in SCI, SSCI, and AHCI

- I. Optimization of Production Parameters for Impact Strength of 3D-Printed Carbon/Glass Fiber-Reinforced Nylon Composite in Critical ZX Printing Orientation  
HARTOMACIOĞLU S.  
Polymers, vol.16, no.21, 2024 (SCI-Expanded)
- II. A review on aluminum alloys produced by wire arc additive manufacturing (WAAM): Applications, benefits, challenges and future trends  
Sarıkaya M., Başçıl Öner D., Dağlı S., HARTOMACIOĞLU S., Günay M., Królczyk G. M.  
Journal of Materials Research and Technology, vol.33, pp.5643-5670, 2024 (SCI-Expanded)
- III. Characterization, generative design, and fabrication of a carbon fiber-reinforced industrial robot gripper via additive manufacturing  
HARTOMACIOĞLU S., Kaya E., EKER B., Dağlı S., Sarıkaya M.  
Journal of Materials Research and Technology, vol.33, pp.3714-3727, 2024 (SCI-Expanded)
- IV. CFD analysis for predicting cooling time of a domestic refrigerator with thermoelectric cooling system Analyse CFD pour la prévision de la durée de refroidissement d'un réfrigérateur domestique avec système de refroidissement thermoélectrique  
Söylemez E., ALPMAN E., ONAT A., HARTOMACIOĞLU S.  
International Journal of Refrigeration, vol.123, pp.138-149, 2021 (SCI-Expanded)

- V. Numerical (CFD) and experimental analysis of hybrid household refrigerator including thermoelectric and vapour compression cooling systems  
 Soylemez E., Alpman E., Onat A., Yukselenturk Y., Hartomacioglu S.  
 INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.99, pp.300-315, 2019  
 (SCI-Expanded)
- VI. The Grey-Based Taguchi Method: Optimisation of Drilling of Hybrid Aluminum Matrix Composites  
 Ay M., Altunpak Y., Hartomacioglu S.  
 ACTA PHYSICA POLONICA A, vol.131, no.3, pp.551-554, 2017 (SCI-Expanded)
- VII. Evaluation of Biodegradable Fixation System for Mandibular Angulus Fracture by Using Finite Element Method  
 Ay M., Hartomacioglu S., Bakircioglu B., Yuzbasioglu H. E., Kubat T.  
 ACTA PHYSICA POLONICA A, vol.129, no.4, pp.883-885, 2016 (SCI-Expanded)
- VIII. Comparison and validation of finite element analysis with a servo-hydraulic testing unit for a biodegradable fixation system in a rabbit model  
 Atali O., Varol A., Basa S., Ergun C., Hartomacioglu S.  
 INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY, vol.43, no.1, pp.32-39, 2014 (SCI-Expanded)
- IX. MINIMIZATION OF THE SURFACE ROUGHNESS AND FORM ERROR ON THE MILLING OF FREE-FORM SURFACES USING A GREY RELATIONAL ANALYSIS  
 Kurt M., Hartomacioglu S., Mutlu B., Koklu U.  
 MATERIALI IN TEHNOLOGIJE, vol.46, pp.205-213, 2012 (SCI-Expanded)
- X. Minimization of the Surface Roughness and Form Error on the Milling of Free Form surfaces using a grey relational analysis  
 Kurt M., Hartomacioglu S., Mutlu B., Köklü U.  
 Materials Technology, vol.46, no.3, pp.205-2013, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. Comparison of screw and plate osteosynthesis in advancement genioplasty: a finite element analysis study  
 GÜLSEVER S., MÜNEVVEROĞLU S., HARTOMACIOĞLU S., Guldiken I. N., UÇKAN İ. S.  
 European Oral Research, vol.59, no.1, pp.40-45, 2025 (ESCI)
- II. Design and Analysis of the Housing of Ball Screw's Nut with Generative Design Method  
 TURGUT M. R., HARTOMACIOĞLU S.  
 International Journal of Computational and Experimental Science and Engineering (IJCESEN), vol.9, no.4, pp.402-408, 2024 (Peer-Reviewed Journal)
- III. Doğalgaz Yakıtlı Düz Alevli Endüstriyel Brülör Tasarımı  
 TURAN N. E., ONAT A., HARTOMACIOĞLU S.  
 International journal of advances in engineering and pure sciences (Online), vol.35, 2023 (Peer-Reviewed Journal)
- IV. Finite Element Analysis of Electromagnetic Clutch  
 ÖZDEMİR M., HARTOMACIOĞLU S.  
 The European Journal of Research and Development, vol.2, no.2, pp.475-490, 2022 (Peer-Reviewed Journal)
- V. Development and Evaluation of Fire Resistant Railway Signalling Cable  
 MUTLU K., MERCAN O., DAĞDELEN D., USLU G., YİĞİTLER Ö., UÇAR Ç., HARTOMACIOĞLU S.  
 Avrupa Bilim ve Teknoloji Dergisi, no.29, 2021 (Peer-Reviewed Journal)
- VI. ÇELİK DİRSEK ÜRETİMİNİN SONLU ELEMANLAR ANALİZİ YÖNTEMİ İLE MODELLENMESİ VE ÜRETİM PARAMETRELERİNİN OPTİMİZASYONU  
 AY M., HARTOMACIOĞLU S., Manav M., SARAÇ S.  
 Euroasia Journal of Mathematics, Engineering, Natural & Medical Sciences International Indexed and Refereed, vol.8, no.16, pp.49-67, 2021 (Peer-Reviewed Journal)
- VII. AISI 4340 MALZEMESİİN TORNA İLE İŞLEMESİNDE GRI İLİŞKİSEL ANALİZ YÖNTEMİ

- KULLANILARAK UYGUN TAKIM TUTUCU (KATER) SEÇİMİNE KARAR VERİLMESİ**  
YILMAZ E., GÜNGÖR F., HARTOMACIOĞLU S.  
Beykent University Journal of Science and Engineering, vol.12, no.2, pp.7-13, 2019 (Peer-Reviewed Journal)
- VIII. **Application of satisfaction function and distance measured based multi-criteria selection method on selection optimal cutting parameters**  
HARTOMACIOĞLU S., KURT M., BAKIRCIOĞLU B.  
International Journal of Latest Engineering Research and Application, vol.2, no.11, pp.76-80, 2017 (Peer-Reviewed Journal)
- IX. **"Optimization of Cutting Parameters of Turning Operation with Vortex Tube Cooling System Using Artificial Neural Network Method"**  
Onat A., Yüksel S., Hartomacioglu S.  
Machines Technologies Materials, vol.11, pp.439-442, 2017 (Peer-Reviewed Journal)
- X. **Production of Boron Carbide Based Sandblast Nozzle By Using Low Pressure Powder Injection Molding Method and Modeling of Production Parameters via Artificial Neural Networks**  
Hartomacioglu S., Gülsoy H. Ö., Onat A.  
Mathematical Modeling, vol.1, no.1, pp.40-47, 2017 (Peer-Reviewed Journal)
- XI. **Application of Satisfaction Function and Distance Measure BasedMulti-Criteria Selection Method on Selection Optimal CuttingParameters**  
HARTOMACIOĞLU S., KURT M., BAKIRCIOĞLU B.  
International Journal of Latest Engineering Research and Applications, vol.2, pp.76-80, 2017 (Peer-Reviewed Journal)
- XII. **Determination of penetration depth at high velocity impact using finite element method and artificial neural network tools**  
Kilic N., EKİCİ B., HARTOMACIOĞLU S.  
DEFENCE TECHNOLOGY, vol.11, no.2, pp.110-122, 2015 (ESCI)
- XIII. **3D Bio Cad modeling of human mandible and fabrication by rapid prototyping technology**  
Ay M., Tınaz K., Delilbaşı B. Ç., Ekici B., Yüzbaşıoğlu H. E., Hartomacioglu S.  
Usak University Journal of Material Sciences, vol.1, pp.135-145, 2013 (Peer-Reviewed Journal)
- XIV. **Using an Artificial Neural Network Approach for Supplier Evaluation Process and a Sectoral Application**  
YAYLA A., HARTOMACIOĞLU S.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BİLİMLERİ DERGİSİ, vol.17, no.2, pp.97-107, 2011 (ESCI)
- XV. **Tedarikçi Değerlendirme Sürecinde Yapay Sinir Ağlarının Kullanımı ve Sektörel Bir Uygulama**  
YAYLA A. Y., HARTOMACIOĞLU S.  
Pamukkale Universiy Journal of Engineering Sciences, vol.17, pp.97-107, 2011 (Peer-Reviewed Journal)
- XVI. **Makine İmalat Teknolojilerinde Sürdürülebilir İmalat İşlemlerinin Önemi ve Uygulamaları**  
KURT M., HARTOMACIOĞLU S., BAKIR B., ATAKÖK G., MUTLU B.  
TT Magazin, Takım Tezgahları ve Üretim Teknolojileri Dergisi, vol.38, pp.108-113, 2010 (Non Peer-Reviewed Journal)

## Books

- I. **Experimental Reseach of Hybrid Thermoset Composites Mechanical Properties**  
ERKENDİRİCİ Y. H., HARTOMACIOĞLU S., YÜKSEK M.  
in: Current Debates On Natural And Engineering Sciences, ÇOĞUN, Hikmet Y., PARLAR İshak, Editor, Bilgi Kültür Sanat Yayınları, Ankara, pp.319-327, 2022

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. Powder injection molding of B4C-CrB2 composite based sandblast nozzles  
HARTOMACIOĞLU S., GÜLSOY H. Ö.  
AM-PM 2019, 23 - 26 June 2019, (Full Text)
- II. İlerletme Genoplastisinde İki Vida Fiksasyonu ve Plak Fiksasyonunun Karşılaştırılması  
UÇKAN İ. S., MÜNEVVEROĞLU S., GÜLDİKEN İ. N., GÜLSEVER S., HARTOMACIOĞLU S.  
26th international scientific congress of Turkish association of oral and maxillofacial surgery, 28 April - 02 May 2019, (Summary Text)
- III. Stability of Sagittal Split Osteotomy Fixation System Using Different Screw Dimensions in Correlation to Cortical Bone Thickness. A Finite Element Study  
ALGHAMİHAN H., HARTOMACIOĞLU S., UÇKAN İ. S.  
13th international congress with EACMFS endorsement, 24 - 28 April 2019, (Summary Text)
- IV. OPTIMIZATION OF CUTTING PARAMETERS OF TURNING OPERATION WITH VORTEX TUBE COOLING SYSTEM USING AR  
ONAT A., YÜKSEL S., HARTOMACIOĞLU S.  
SCIENTIFIC PROCEEDINGS XIV INTERNATIONAL CONGRESS "MACHINES. TECHNOLOGIES. MATERIALS." 2017 - SUMMER SESSION, 13 - 16 September 2017, (Full Text)
- V. selection of Optimal Cutting Experimental Conditions of Turning Operations by Using Satisfaction Function and Distance Based Multi-Criteria Decision Making Method  
BAKIRCIOĞLU B., HARTOMACIOĞLU S., YÜKSEL S., YAZMAN Ş., GÜVERCİN S., DURAN A.  
International Scientific Conference of Mathematical Modeling, BOROVETS, Bulgaria, 13 - 16 December 2017, (Full Text)
- VI. Application of a hybrid model : fractional experimental design artificial neural network grey relational analysis method on optimization of process parameters of powder metallurgy  
HARTOMACIOĞLU S., GÜLSOY H. Ö., BAKIRCIOĞLU B., yüksels.
- VII. modelling of production parameters of B4C ZrO<sub>2</sub> composites via artificial neural networks method  
HARTOMACIOĞLU S., GÜLSOY H. Ö., BAKIRCIOĞLU B.  
mathematical modelling 2017, 13 - 16 December 2017, (Full Text)
- VIII. Production of boron carbide based sandblasting nozzle by using low pressure powder injection molding method and modeling of production parameters via artificial neural network  
HARTOMACIOĞLU S., GÜLSOY H. Ö., ONAT A.  
International scientific congress machines, technologies, materials, Varna, Bulgaria, 13 - 16 September 2017, (Full Text)
- IX. Production of boron carbide based sandblasting nozzle by using low pressure powder injection molding method and modelling of production parameters via artificial neural network  
HARTOMACIOĞLU S., GÜLSOY H. Ö., ONAT A.  
international scientific congress machines, technologies, materials, 13 - 16 September 2017, (Full Text)
- X. yapay sinir ağları yöntemiyle değişik ilaveli B4C kompozitlerin yoğunluklarının tahmin performanslarının incelenmesi  
HARTOMACIOĞLU S., GÜLSOY H. Ö.  
2. uluslararası savunma sanayi sempozyumu, 6 - 08 April 2017, (Summary Text)
- XI. Toz Enjeksiyon Kalıplama Yöntemi ile TiB<sub>2</sub> ilaveli B4C Kompozitlerin Üretimi  
HARTOMACIOĞLU S., GÜLSOY H. Ö., SALMAN S.  
2. uluslararası savunma sanayi sempozyumu, 6 - 08 April 2017, (Summary Text)
- XII. The Grey Based Taguchi Method Optimization of Drilling of Hybrid AluminumMatrix Composites  
AY M., ALTUNPAK Y., HARTOMACIOĞLU S.  
6th International Advances in Applied Physics and Materials Science Congress Exhibition, 1 - 03 June 2016, (Summary Text)
- XIII. Effect of Different Additions on Sintering Behaviour of Injection Molded B4C Powder

- HARTOMACIOĞLU S., GÜLSOY H. Ö., Bilketay S.  
 1st European Latin-American Conference of Theoretical and Applied Mechanics (ELECTAM), 22 - 24 February 2016
- XIV. Optimization of Physical and Mechanical Properties of the Meleagris Gallopoova Hydroxyapatite Magnesium Oxide Composites by Gray Relational Analysis Method  
 Hartomacioglu S., Pazarlıoğlu S. S., Onat A., Salman S.  
 International Congresses on Engineering and Natural Sciences (ICENS 2015). Skopje, Makedonya, Skopje, Macedonia, 15 - 19 May 2015, vol.1, no.1, pp.313, (Summary Text)
- XV. Optimization of Physical and Mechanical Properties of the Meleagris Gallopoova Hydroxyapatite Magnesium Oxide Composites by Grey Relational Method  
 PAZARLIOĞLU S. S., HARTOMACIOĞLU S., SALMAN S., ONAT A.  
 International Conference on Engineering and Natural Sciences, 15 - 19 May 2015
- XVI. EVALUTAION OF BIODEGRADABLE FIXATION SYSTEM FOR MANDIBULAR ANGULUS FRACTURE BY USING FINITE ELEMENT METHOD  
 AY M., HARTOMACIOĞLU S., BAKIRCIOĞLU B., YÜZBAŞIOĞLU H. E., TINAZ K.  
 4. The International Advances In Applied Physics and Materials Science Congress Exhibition, 24 - 27 April 2014, (Summary Text)
- XVII. Koyun Hidroksiyapatit Lantanyum Oksit Kompozitlerinin Mekanik Özelliklerinin Gri İlişkisel Analiz Yöntemi İle Optimizasyonu  
 HARTOMACIOĞLU S., PAZARLIOĞLU S. S., SALMAN S.  
 2. Ulusal Ege Kompozit Malzemeler Sempozyumu, Turkey, 7 - 09 November 2013, (Full Text)
- XVIII. Assessment of Biomechanical Stability of Biodegradable Miniplate Screw System in A Rabbit Model  
 ATALI O., VAROL A., BASA S., ERGUN C., HARTOMACIOĞLU S.  
 6th International Congress (Oral and Maxillofacial Surgery Society), 30 May - 03 June 2012, (Full Text)
- XIX. Bakır Berilyum CuBe2 Alaşımının CNC Tel Erozyonla Kesilmesinde Kesme Parametrelerinin Yüzey Pürüzlülüğü ve Form Doğruluğu Üzerindeki Etkilerinin İncelenmesi  
 MUTLU B., KURT M., BAĞCI E., HARTOMACIOĞLU S., Esra İ.  
 14th International Materials Symposium (Imsp'2012), Denizli, Turkey, 10 - 12 October 2012, vol.1, pp.235-242, (Full Text)
- XX. KOYUN HİDROKSİAPATİT LANTANYUM OKSİT KOMPOZİTLERİNİN MEKANİK ÖZELLİKLERİNİN GRİ İLİŞKİSEL ANALİZ YÖNTEMİ İLE OPTİMİZASYONU  
 PAZARLIOĞLU S. S., HARTOMACIOĞLU S., SALMAN S.  
 KOMPEGE II, Turkey, 7 - 09 November 2010
- XXI. Serbest Şekilli Yüzeylerin İşlenmesinde Kesici Takım Geometrisi ve İşleme Stratejilerinin Şekil Hatasına Etkisi  
 KURT M., HARTOMACIOĞLU S., MUTLU B.  
 International Science Technology Conference (ISTEC-2010), Famagusta, Cyprus (Kktc), 27 - 29 October 2010, vol.1, pp.686-692, (Full Text)

## Funded Projects

- Ekici B., Hartomacioglu S., Development Agency, Marmara Üniversitesi Ürün Geliştirme Merkezi (MÜRGEMER) Kurulumu Projesi, 2018 - 2020
- Hartomacioglu S., TUBITAK Project, Yeni Bağlayıcı Sistemli Sentetik Elmas Kesici Takım Üretimi, 2018 - 2019
- Hartomacioglu S., Project Supported by Higher Education Institutions, Yapay Sinir Ağları Yöntemi İle Bor Karbür Esash Kompozitlerin Üretim Parametrelerinin Modellenmesi ve Tahmin Performansının Değerlendirilmesi, 2017 - 2018
- Hartomacioglu S., Gülsøy H. Ö., PAZARLIOĞLU S. S., Project Supported by Higher Education Institutions, Mikro Gözenekl Metastabil β Alaşımı T10Zr10Nb Byomalzemelerin Toz Enjeksyon Kalıplama ve Boşluk Oluşturma Tekniğiyle Üretim Mikroyapisal, Mekanik Korozyon ve Bio-aktif Davranışlarının İncelenmesi, 2016 - 2018
- Hartomacioglu S., Gülsøy H. Ö., TUBITAK Project, B4C Esası Kumlama Nozüllerinin Toz Enjeksyon Kalıplama Yöntemiyle

Üretimi Ve Aşınma Özelliklerinin İncelenmesi, 2014 - 2016

Hartomacıoğlu S., Gülsoy H. Ö., Project Supported by Higher Education Institutions, Kobalt Esaslı Süperalaşım

Malzemelerin Toz Enjeksiyon Kalıplama İle Üretilmesi Mikroyapı Mekanik ve Korozyon Davranışlarının İncelenmesi,

2015 - 2015

## Metrics

Publication: 49

Citation (WoS): 100

Citation (Scopus): 154

H-Index (WoS): 6

H-Index (Scopus): 6

## Non Academic Experience

Ankara Adalet Sarayı , Memur