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International Researcher IDs

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ScopusID: 6603183478

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Education Information

Doctorate, University of Birmingham, Department of Mechanical Engineering, United Kingdom 1979 - 1983

Undergraduate, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, Turkey 1974 - 1979

Foreign Languages

English, C1 Advanced

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1998 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1988 - 1998

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1985 - 1988

Lecturer, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1983 - 1985

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1979 - 1979

Academic and Administrative Experience

Manager of Research and Application Center, Middle East Technical University, Presidency Office, METU-BILTIR CENTER RESEARCH AND APPLICATION CENTER, 1999 - Continues
Assistant Manager of Research and Application Center, Middle East Technical University, Presidency Office, METU-BILTIR RESEARCH AND APPLICATION CENTER, 1992 - 1999

Advising Theses

Gökler M. I., Design, analysis and experimental study of a novel side thorax impactor to be used in pedestrian protection tests for flat front vehicles, Doctorate, S.SARAÇ(Student), 2021
Gökler M. I., Developing test procedure and design of fixture for dynamic test of road ambulances, Postgraduate, S.Kaya(Student), 2019
Gökler M. I., Design of a sled test fixture for civilian helicopter seats, Postgraduate, A.Seçgin(Student), 2019
Gökler M. I., COMPUTER AIDED DESIGN AND ANALYSIS FOR FORGING OF COMMON RAIL, Postgraduate, A.GÜLBİKE(Student), 2017
Gökler M. I., Design of new die holder system for reducing die exchange time on 1000 ton hot forging press, Postgraduate, M.AHMAD(Student), 2015
Gökler M. I., Darendeliler H., DEVELOPMENT OF INTERNAL HEATING SYSTEM FOR HOT FORGING DIES, Doctorate, L.ERTONG(Student), 2013
İder S. K., Gökler M. I., Analysis of Whiplash during rear crash and development of an anti-whiplash seat mechanism, Doctorate, M.ÖZDEMİR(Student), 2013
Gökler M. I., Developing of system to evaluate safety of child seat and restraints system according to ECE R44, Postgraduate, R.ÇÖL(Student), 2012
Gökler M. I., Erdener M., Investigation of reducing run time in vehicle level finite element analyses for curtain airbag development, Postgraduate, K.ÖZDEN(Student), 2012
Gökler M. I., Kalkanlı A., An alternative process including sand casting forging and heat treatment of 30mm diameter X48CrMoV8-1 tool steel, Postgraduate, İ.ALP(Student), 2012
Gökler M. I., Die System Design for Flashless Hot Forging of Sliding Elements, Postgraduate, E.ARSLAN(Student), 2012
Gökler M. I., Darendeliler H., Analysis of Roller Hemming Process for a Vehicle Tailgate, Postgraduate, S.GÜRGEN(Student), 2011
Darendeliler H., Gökler M. I., Analysis of hot forming of an Advanced High Strength Steel sheet metal component of A-Pillar in a vehicle, Postgraduate, S.DEMİRKAYA(Student), 2010
Gökler M. I., Darendeliler H., Experimental and numerical analysis of compression on a forging press, Postgraduate, G.BİÇER(Student), 2010
Gökler M. I., Darendeliler H., DESIGN AND ANALYSIS OF COLD FORGING PROCESS ON MULTI-STATION HORIZONTAL FORGING MACHINES, Postgraduate, C.YUMUŞ(Student), 2010
İder S. K., Gökler M. I., Design of a Vehicle Seat Back Adjustment Mechanism, Postgraduate, A.MURAT(Student), 2010
Gökler M. I., Darendeliler H., ANALYSIS OF HIGH-G CAMERA SUPPORT STRUCTURE FOR CRASH TEST SYSTEM, Postgraduate, M.GÖKHAN(Student), 2009
Gökler M. I., Experimental whiplash analysis with hybrid III 50 percentile test dummy, Postgraduate, U.GÖÇMEN(Student), 2009
Gökler M. I., Darendeliler H., Effect of strain history on simulation of crashworthiness of a vehicle, Postgraduate, U.ÇAĞRI(Student), 2009
Darendeliler H., Gökler M. I., Finite element analysis and manufacturing of fin connector rod by hot forging process, Postgraduate, B.ŞERBETÇİ(Student), 2009
Darendeliler H., Gökler M. I., Elastic-plastic finite element analysis of semi-hot forging dies, Postgraduate, M.HALİSÇELİK(Student), 2009
Gökler M. I., Analysis of coining process in production of medallion, Postgraduate, D.AKKUŞ(Student), 2009
Gökler M. I., Darendeliler H., Analysis and design for aluminum forging process, Postgraduate, H.ÖZTÜRK(Student), 2008
Gökler M. I., Design of fixturing system for forging dies, Postgraduate, Ö.CAVBOZAR(Student), 2008
Gökler M. I., Darendeliler H., Thermo-mechanically coupled numerical and experimental study on 7075 aluminum forging

process and dies, Postgraduate, M.CİHAT(Student), 2008

Dağ S., Gökler M. I., Finite element analysis of a micro satellite structure under vibration induced loads during launch, Postgraduate, S.ONTAÇ(Student), 2008

Gökler M. I., Cutting strategies for forging die manufacturing on CNC milling machines, Postgraduate, A.ÖZGEN(Student), 2008

Gökler M. I., An experimental study on single crystal diamond turning of optical quality silicon, Postgraduate, S.ÇALI(Student), 2008

Gökler M. I., Darendeliler H., Design and thermo-mechanical analysis of warm forging process and dies, Postgraduate, S.SARAÇ(Student), 2007

Gökler M. I., Darendeliler H., Effects of induction heating parameters on forging billet temperature, Postgraduate, İ.DURUKAN(Student), 2007

Gökler M. I., Darendeliler H., Design and implementation of hot precision forging die for a spur gear, Postgraduate, M.MAŞAT(Student), 2007

Gökler M. I., Development of a methodology for prediction of surface roughness of curved cavities manufactured by 5-axes cnc milling, Postgraduate, K.Arda(Student), 2007

Gökler M. I., Design and analysis of fixturing in assembly of sheet metal components of helicopters, Postgraduate, F.MEHMET(Student), 2007

İder S. K., Gökler M. I., Design of a Vehicle Seat Height Adjustment Mechanism, Postgraduate, E.Anık(Student), 2006

Gökler M. I., Preliminary design and construction of a prototype canola seed oil extraction machine, Postgraduate, P.SARI(Student), 2006

Gökler M. I., Balkan R. T., Acquisition of field data for agricultural tractor, Postgraduate, A.KOYUNCU(Student), 2006

Darendeliler H., Gökler M. I., Analysis of warm forging process, Postgraduate, G.AKTAKKA(Student), 2006

Gökler M. I., Balkan R. T., Design of Test Methodology for Testing Vehicle Doors, Postgraduate, Ö.Semih(Student), 2006

Gökler M. I., Darendeliler H., Analysis of roll-forging process, Postgraduate, H.KARACAOVALI(Student), 2005

Erdal Erdoğan M., Gökler M. I., Effects of production parameters on porosity and hole properties in laser sintering rapid prototyping process, Postgraduate, Ö.İLKĞÜN(Student), 2005

Gökler M. I., Development of postprocessor, simulation and verification software for a five-axis CNC milling machine, Postgraduate, E.CENGİZ(Student), 2005

Gökler M. I., Akkök M., Wear analysis of hot forging dies, Postgraduate, S.ABACHİ(Student), 2004

Gökler M. I., Darendeliler H., Analysis of tube upsetting, Postgraduate, A.TÜZÜN(Student), 2004

Gökler M. I., Preform design for forging of heavy vehicle steering joint, Postgraduate, S.Gülbahar(Student), 2004

Gökler M. I., Darendeliler H., Analysis of forging for three different alloy steels, Postgraduate, B.CİVELEKOĞLU(Student), 2003

Gökler M. I., Computerized cost estimation for forging industry, Postgraduate, M.TUNÇ(Student), 2003

Gökler M. I., Akkök M., Design and Implementation of Laser Integrated Rifle Engagement Training System, Postgraduate, K.Özer(Student), 2003

Gökler M. I., Darendeliler H., Analysis and preform design for long press forgings with non-planar parting surfaces, Postgraduate, A.BARIŞ(Student), 2003

Darendeliler H., Gökler M. I., Finite element analysis of hot upset forging dies., Postgraduate, M.CERAN(Student), 2002

Gökler M. I., Design and analysis of hot upset forgings with non-circular cross-sections, Postgraduate, E.KAZANCI(Student), 2002

Gökler M. I., Darendeliler H., Finite element analysis of springback in bending process., Postgraduate, V.ESAT(Student), 2002

Gökler M. I., Alternative prototyping of large sized plastic parts by using CNC milling machines: A comparative study, Postgraduate, M.AYTAÇ(Student), 2002

DARENDELİLER H., GÖKLER M. İ., Finite element analysis of trimming process., Postgraduate, S.Ş.(Student), 2002

Gökler M. I., Analysis and design of preforms for non-axisymmetric press forgings, Postgraduate, A.ERKİN(Student), 2001

Gökler M., Development of simulation and verification software for CNC turning machines, Postgraduate, S.Salihler(Student), 2001

Gökler M. I., Darendeliler H., Finite element analysis of effects of tapered preforms on final product in cold upsetting,

Postgraduate, Ö.Doğan(Student), 2000

Gökler M. I., Darendeliler H., Finite element analysis of piercing operation on forging machines, Postgraduate, T.Moğulkoç(Student), 1999

Gökler M. I., Akkök M., Experimental Investigation of Surface Finish Improvement in Face Turning, Postgraduate, F.Çalık(Student), 1998

Gökler M. I., Development of a methodology and a software to convert 2D engineering drawings to 3D solid models, Postgraduate, L.Ertong(Student), 1998

Gökler M. I., Experimental investigation of effects of cutting parameters on surface roughness in wedm process, Postgraduate, A.Mithat(Student), 1998

Gökler M. I., Experimental investigation of hydroforming of dishwasher parts, Postgraduate, T.Akn(Student), 1997

Gökler M. I., Darendeliler H., Finite Element Analysis of Tapered Performs in Cold Upsetting, Postgraduate, N.Elmaskaya(Student), 1997

Gökler M. I., Blending in surface modelling, Postgraduate, C.ÖZBAL(Student), 1995

Gökler M. I., Design of automatic tool changer for CNC machines, Postgraduate, M.BİLGİN(Student), 1995

Gökler M. I., Design of Tunnel Framework System in Computer Aided Design Environment, Postgraduate, C.Selçuk(Student), 1995

Gökler M. I., A graphical database for modular fixturing assemblies, Postgraduate, M.EMRE(Student), 1995

Gökler M. I., Computer aided design of drop forging dies, Postgraduate, T.GÜLEÇ(Student), 1994

Gökler M. I., Surface modelling based on bezier and B-spline techniques, Postgraduate, M.YABAN(Student), 1993

Gökler M. I., Sweep-based primitive creation in solid modelling, Postgraduate, C.ÖZÇELİK(Student), 1991

Gökler M. I., Hidden-surface elimination and shading technique in solid modelling, Postgraduate, M.Anıl(Student), 1991

GÖKLER M. İ., Computerized classification and shape coding and solid modeling applications for hot upset forgings, Postgraduate, A.Alpan(Student), 1991

Gökler M. I., Computer aided design of progressive press dies for cutting operations, Postgraduate, K.HAKAN(Student), 1990

Gökler M. I., Selbes F., Algorithms for regularized Set Operations on Solid Objects, Postgraduate, A.Mumcuoğlu(Student), 1990

Gökler M. I., Union, intersection and difference in solid modeling applications, Postgraduate, M.ÇANGA(Student), 1990

Gökler M., A solid modelling application for plant layout design, Postgraduate, T.Erbil(Student), 1990

Gökler M. I., Computer Aided Design of Axi-symmetric Press Forgings, Postgraduate, E.Alper(Student), 1989

Gökler M. I., Development of data Bank for sheet metal presswork die sets and auxiliary components, Postgraduate, M.İbrahim(Student), 1989

Gökler M. I., Eskicioğlu H., Implementation of computer graphics on computer aided process planning system for rotational parts, Postgraduate, M.Ünlüsoy(Student), 1989

Gökler M., Computerized cost estimation for injection moulds, Postgraduate, S.Serdar(Student), 1989

Gökler M. I., Computer aided operations sequence and die design for cold extrusion, Postgraduate, M.GÜNEŞ(Student), 1987

Gökler M. I., Eskicioğlu H., Computer aided part programme generation for machining upset forging dies on NC milling machines, Postgraduate, H.BAŞTÜRK(Student), 1987

Gökler M. I., Computer aided striplayout and die design for sheet metal press cutting operations, Postgraduate, H.BÜYÜKBAŞ(Student), 1987

Gökler M. I., Computer Aided Design for Tube Upsetting, Postgraduate, K.Karavelioğlu(Student), 1987

Gökler M., Three dimensional modelling, Postgraduate, B.Sen(Student), 1987

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A comprehensive study on water jet guided laser micro hole drilling of an aerospace alloy**
Subasi L., Gokler M. I., Yaman U.
OPTICS AND LASER TECHNOLOGY, vol.164, pp.1-9, 2023 (SCI-Expanded)
- II. **Real-time measurement of laser beam characteristics for a waterjet-guided laser machine**

Subasi L., GÖKLER M. İ., YAMAN U.

INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.122, no.11-12, pp.4309-4320, 2022 (SCI-Expanded)

- III. **A process modeling approach for micro drilling of aerospace alloys with a waterjet guided laser system**
Subasi L., GÖKLER M. İ., YAMAN U.
Optics and Laser Technology, vol.148, 2022 (SCI-Expanded)
- IV. **Experimental and numerical investigation of comparability of whiplash sled test results**
ÖZDEMİR M., İDER S. K., GÖKLER M. İ.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.38, no.2, pp.395-402, 2016 (SCI-Expanded)
- V. **Parametric analysis of an anti-whiplash system composed of a seat suspension arrangement**
Ozdemir M., İDER S. K., GÖKLER M. İ.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.37, no.2, pp.777-784, 2015 (SCI-Expanded)
- VI. **Development of a design verification methodology including strength and fatigue life prediction for agricultural tractors**
Koyuncu A., GÖKLER M. İ., Balkan T.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.60, pp.777-785, 2012 (SCI-Expanded)
- VII. **Wear analysis of hot forging dies**
Abachi S., AKKÖK M., GÖKLER M. İ.
TRIBOLOGY INTERNATIONAL, vol.43, pp.467-473, 2010 (SCI-Expanded)
- VIII. **Experimental investigation of effects of cutting parameters on surface roughness in the WEDM process**
Gokler M., Ozanozgu A.
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.40, no.13, pp.1831-1848, 2000 (SCI-Expanded)
- IX. **Analysis of tapered preforms in cold upsetting**
Gokler M., Darendeliler H., Elmaskaya N.
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.39, no.1, pp.1-16, 1999 (SCI-Expanded)
- X. **Design of an automatic tool changer with disc magazine for a CNC horizontal machining center**
Gokler M., Koc M.
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.37, no.3, pp.277-286, 1997 (SCI-Expanded)
- XI. **Computerized analysis of parameters affecting shape and thickness in cold rolling of strip for soft materials**
Senalp A., Gokler M., Akkok M.
JSME INTERNATIONAL JOURNAL SERIES C-MECHANICAL SYSTEMS MACHINE ELEMENTS AND MANUFACTURING, vol.40, no.1, pp.170-179, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. **Multi objective optimization of water jet guided laser micro drilling on Inconel 718 using Taguchi Method**
Subasi L., GÖKLER M. İ., YAMAN U.
Procedia CIRP, vol.94, pp.505-510, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Multi objective optimization of water jet guided laser micro drilling on Inconel 718 using Taguchi Method**
Subasi L., Gökler M. İ., Yaman U.
11th CIRP Conference on Photonic Technologies, LANE 2020, Virtual, Online, 7 - 10 September 2020, vol.94, pp.505-510
- II. **Predicting the Effective Cutting Length of Laser Micro Jet Process Using Machine Learning**
Subaşı L., GÖKLER M. İ., YAMAN U.
International Conference and Exhibition on Digital Transformation and Smart Systems, Ankara, Turkey, 23 - 25 October 2019
- III. **Effects of forming history on crash simulation of a vehicle**
GÖKLER M. İ., Dogan U. C., DARENDELİLER H.
10th International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Processes, Bristol, United Kingdom, 4 - 09 September 2016, vol.734
- IV. **Analysis of Roller Hemming Process for a Vehicle Tailgate Closure**
Gurgen S., GÖKLER M. İ., DARENDELİLER H., Celikkaya C. C., Erden K.
11th International Conference on Numerical Methods in Industrial Forming Processes (NUMIFORM), Shenyang, China, 6 - 10 July 2013, vol.1532, pp.367-374
- V. **Analysis of Hot Forming of a Sheet Metal Component Made of Advanced High Strength Steel**
Demirkaya S., DARENDELİLER H., GÖKLER M. İ., Ayhaner M.
11th International Conference on Numerical Methods in Industrial Forming Processes (NUMIFORM), Shenyang, China, 6 - 10 July 2013, vol.1532, pp.421-426
- VI. **Finite element analysis of shearing processes**
Isbir S., DARENDELİLER H., GÖKLER M. İ.
5th International Conference on Engineering Computational Technology, ECT 2006, Las Palmas de Gran Canaria, Spain, 12 - 15 September 2006
- VII. **Finite element analysis of header dies for taper upsetting**
Ceran M., GÖKLER M. İ., DARENDELİLER H.
8th International Conference on Computational Structures Technology, CST 2006, Las Palmas de Gran Canaria, Spain, 12 - 15 September 2006, vol.83
- VIII. **Analysis of Forging for C45 Carbon Steel, X20Cr13 Stainless Steel and 42CrMo4 Alloy Steel**
Civelekoğlu B., DARENDELİLER H., GÖKLER M. İ.
3rd International Conference and Exhibition on Design and Production of Dies and Molds, Bursa, Turkey, 17 - 19 September 2004
- IX. **Finite element analysis of the effects of tapered preforms on the final product in cold upsetting**
Dogan O., GÖKLER M. İ., DARENDELİLER H.
Proceedings of the Third International Conference on Engineering Computational Technology, Prague, Czech Republic, 4 - 06 September 2002, pp.105-106
- X. **Finite Element Analysis of Effects of Tapered Preforms on Final Product in Cold Upsetting**
Doğan Ö., GÖKLER M. İ., DARENDELİLER H.
Third International Conference on Engineering Computational Technology, Prak, Czech Republic, 4 - 06 September 2002
- XI. **Springback Analysis in Various Bending Dies by Using Finite Element Method**
ESAT V., DARENDELİLER H., GÖKLER M. İ.
2nd International Conference and Exhibition on Design and Production of Dies and Mold Conference, Kuşadası, Turkey, 21 - 23 June 2001
- XII. **Finite Element Analysis of Springback in Bending of Aluminium Sheets**
ESAT V., DARENDELİLER H., GÖKLER M. İ.
Finite Element Analysis of Springback in Bending of Aluminium Sheets, Bahrain, 12 February 2001

Supported Projects

Gökler M. I., Akar G., Yaman U., Köksal G., Eren P. E., Ertekin Bolelli Ş., Gürbüz T., Erdil E., AB IPA Project, MIDDLE EAST TECHNICAL UNIVERSITY DIGITAL INNOVATION CENTER, 2021 - 2024

Gökler M. I., Technopark, Taşıt Araçlarında Sürücü/Yolcu Güvenliği AR-GE Projesi, 2021 - 2022

Gökler M. I., Technopark, Sıcak Dövme Proses ve Kalıp Geliştirilmesi-2 AR-GE Projesi, 2021 - 2022

Gökler M. I., Technopark, Kazalarda Yaya Güvenliği AR-GE Projesi, 2020 - 2020

Gökler M. I., Technopark, Sıcak Dövme Proses ve Kalıp Geliştirilmesi AR-GE Projesi, 2020 - 2020

Gökler M. I., Saraç Karadeniz S., Company, Hot Forging Processes and Dies R&D Project, 2020 - 2020

GÖKLER M. İ., Project Supported by Other Private Institutions, Yenilikçi Bir Çarpma Traversi Geliştirmeye Yönelik AR GE Projesi, 2014 - 2015

GÖKLER M. İ., Industrial Thesis Project, Katlanmış perde hava yastığının kullanıldığı araç seviyesi sonlu elemanlar çarpışma modellerinde ortaya çıkan sayısal sorunların irdelenmesi, 2012 - 2013

GÖKLER M. İ., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Otomotiv Sanayinde Tasarım ve Analize Yönelik Yüksek İvmeli Hasarsız Çarpışma Laboratuvarı, 2006 - 2011

GÖKLER M. İ., TUBITAK Project, Alüminyum Dövme İşlemi İçin Analiz ve Tasarım, 2006 - 2009

GÖKLER M. İ., TUBITAK Project, Kalıp Bağlama Sistem Tasarımı, 2006 - 2009

Patent

Gökler M. İ., Göçmen U., Esat V., A neck model where neck injures can be examined, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: US 11,386,810 B2 , Standard Registration, 2022

Saraç Karadeniz S., Gökler M. İ., THORAX IMPACTOR TO BE USED IN PEDESTRIAN PROTECTION TEST "ği Testlerinde Doğrusal Fırlatıcılarla Kullanılabilecek ve Yayaların Göğüs Kısımlarını Temsil Eden Bir Fiziki Göğüs Modeli, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: 2021/014954 , Standard Registration, 2021

INTERNAL HEATING SYSTEM FOR FORGING DIES INTERNAL HEATING SYSTEM FOR FORGING DIES INTERNAL HEATING SYSTEM FOR FORGING DIES, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: US 10,124,395 B2 , Standard Registration, 2018, 2023

Boyun incinmelerini önleyici bir araç koltuk mekanizması., Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: TR 2011 12297 , Standard Registration, 2018

FLEXIBLE SEAT SYSTEM, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: EP 2 097 292 B1 , Standard Registration, 2007, 2010

Metrics

Publication: 28

Citation (WoS): 158

Citation (Scopus): 223

H-Index (WoS): 5

H-Index (Scopus): 6