

## Prof. HALUK DARENDELİLER

### Personal Information

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### International Researcher IDs

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ScopusID: 6601971454

Yoksis Researcher ID: 7702

### Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Turkey 1985 - 1991

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Turkey 1981 - 1983

Undergraduate, Middle East Technical University, Faculty of Engineering, Turkey 1977 - 1981

### Dissertations

Doctorate, Computer-aided deformation analysis of deep-drawing process, Middle East Technical University, Graduate School of Natural and Applied Sciences, 1991

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 2002 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1997 - 2002

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1993 - 1997

Researcher, Ohio State University, Engineering Research Center for Net Shape Manufacturing, 1992 - 1993

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1991 - 1993

Lecturer, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1987 - 1991

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 1982 - 1987

## Academic and Administrative Experience

Genel Sekreter Vekili, Middle East Technical University, Presidency Office, 2000 - 2008

## Advising Theses

- Darendeliler H., PREDICTION OF LOW-CYCLE FATIGUE LIFE BASED ON UNCOUPLED DUCTILE FRACTURE CRITERIA, Postgraduate, O.GÜNDÜZ(Student), 2024
- Darendeliler H., Crystal plasticity based analysis of crack propagation at microscale by extended finite element method, Postgraduate, U.YILMAZ(Student), 2023
- Darendeliler H., Anlaş G., THERMOMECHANICAL MODELING OF NITI SHAPE MEMORY ALLOYS INCLUDING PLASTICITY, Postgraduate, H.ALPAY(Student), 2022
- Darendeliler H., INVESTIGATION OF VARIATION OF TRIAXIALTY AND LODE ANGLE PARAMETER VALUES IN SHEET METAL FORMING PROCESSES, Postgraduate, T.GÜZELDEREN(Student), 2022
- Darendeliler H., Oktay E., Investigation of effect of mass distribution on wing flutter by fluid-structure interaction analysis, Postgraduate, F.CELEN(Student), 2022
- Darendeliler H., INVESTIGATION OF BUCKLING, POST-BUCKLING BEHAVIOUR OF VARIABLE STIFFNESS COMPOSITE PLATES, Postgraduate, U.KAAN(Student), 2022
- Darendeliler H., DEFORMATION AND FAILURE ANALYSIS OF LAMINATED COMPOSITES BY ISOGEOMETRIC ELEMENTS FORMULATION, Postgraduate, C.BADE(Student), 2020
- Darendeliler H., Analysis of effects of temperature variation on deep drawing process using different constitutive laws, Postgraduate, R.HAKAN(Student), 2019
- Darendeliler H., Investigation of tensile plastic instability and necking for AL2024T3 aluminum and S235JR steel alloys, Postgraduate, V.İLİ(Student), 2019
- Darendeliler H., Analysis of wrinkling in deep drawing processes, Postgraduate, S.RABİA(Student), 2019
- Darendeliler H., THE EFFECT OF STRAIN RATE AND TEMPERATURE ON DEEP DRAWING FOR DIFFERENT CONSTITUTIVE RELATIONS, Postgraduate, S.GÖKŞEN(Student), 2019
- Darendeliler H., Analysis of deep drawing process by using hypo- and hyperelastic based plasticity models, Postgraduate, İ.BARIŞ(Student), 2019
- DARENDELİLER H., Analysis of ratcheting by using different yield criteria and kinematic hardening models for uniaxial and biaxial loading, Postgraduate, M.İŞLER(Student), 2018
- DARENDELİLER H., Analysis of metal forming by using isogeometric elements, Postgraduate, Y.ÖZDOĞAN(Student), 2018
- DARENDELİLER H., An Investigation of ductile fracture criteria for sheet metal forming /, Doctorate, S.Abbasnejad(Student), 2014
- DARENDELİLER H., Flexible multibody analysis using absolute nodal coordinate formulation, Postgraduate, M.ALİ(Student), 2014
- DARENDELİLER H., An investigation of ductile fracture criteria for sheet metal forming, Doctorate, S.ABBASNEJAD(Student), 2014
- DARENDELİLER H., Dynamic analysis and modelling of a rocket launcher system, Postgraduate, B.CAN(Student), 2014
- Gökler M. I., Darendeliler H., DEVELOPMENT OF INTERNAL HEATING SYSTEM FOR HOT FORGING DIES, Doctorate, L.ERTONG(Student), 2013
- DARENDELİLER H., Springback analysis in bending through finite element method based artificial neural networks, Postgraduate, Ö.ŞENOL(Student), 2013
- DARENDELİLER H., Implementation and comparison of different constitutive models in deep drawing process, Postgraduate, F.ÇOĞUN(Student), 2013
- DARENDELİLER H., Experimental and finite element analysis of rotary draw tube bending process, Postgraduate, F.DERE(Student), 2013
- DARENDELİLER H., Buckling, postbuckling and progressive failure analyses of composite laminated plates under compressive loading, Postgraduate, Ö.NAMDAR(Student), 2012
- DARENDELİLER H., Large deformation analysis of flexible multibody systems, Doctorate, A.TÜZÜN(Student), 2012

DARENDELİLER H., Buckling, postbuckling and progressive failure analyses of composite laminated plates under compressive loading, Postgraduate, Ö.NAMDAR(Student), 2012

DARENDELİLER H., Progressive failure analysis of composite shells, Postgraduate, Y.OLCAY(Student), 2012

Gökler M. I., Darendeliler H., Analysis of Roller Hemming Process for a Vehicle Tailgate, Postgraduate, S.GÜRGEN(Student), 2011

DARENDELİLER H., Effect of constitutive modeling in sheet metal forming, Postgraduate, M.UÇAN(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., DESIGN AND ANALYSIS OF COLD FORGING PROCESS ON MULTI-STATION HORIZONTAL FORGING MACHINES, Postgraduate, C.YUMUŞ(Student), 2010

Gökler M. I., Darendeliler H., Experimental and numerical analysis of compression on a forging press, Postgraduate, G.BİÇER(Student), 2010

DARENDELİLER H., Finite Element and Experimental Analysis of Cold Drawing for Spline Profile, Postgraduate, S.SAMET(Student), 2010

DARENDELİLER H., Large deformation analysis of shells under impulsive loading, Postgraduate, M.EVCİM(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., 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.HALİŞÇELİK(Student), 2009

DARENDELİLER H., Inner ring fatigue analysis of rolling element bearings, Postgraduate, B.EROĞLU(Student), 2009

Gökler M. I., Darendeliler H., Analysis and design for aluminum forging process, Postgraduate, H.ÖZTÜRK(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

DARENDELİLER H., Analysis of heat treatment effect on springback in v-bending, Postgraduate, O.Turgay(Student), 2008

DARENDELİLER H., Analysis of heat treatment effect on springback in v-bending, Postgraduate, O.TURGAY(Student), 2008

DARENDELİLER H., ORAL S., Finite element analysis of bending operation of aluminum profiles, Postgraduate, U.PENEKLİ(Student), 2008

DARENDELİLER H., Development of a shell finite element for large deformation analysis of laminated composites, Postgraduate, T.YILDIZ(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

DARENDELİLER H., An elastic-plastic beam finite element, Postgraduate, A.MÜCAHİT(Student), 2006

DARENDELİLER H., An Elastic-Plastic Beam Element, Postgraduate, A.M(Student), 2006

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

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

DARENDELİLER H., AKKÖK M., Friction analysis in cold forging, Postgraduate, Ö.NECATİ(Student), 2004

Gökler M. I., Darendeliler H., Analysis of forging for three different alloy steels, Postgraduate, B.CİVELEKOĞLU(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., Darendeliler H., Finite element analysis of springback in bending process., Postgraduate, V.ESAT(Student),

2002

- DARENDELİLER H., GÖKLER M. İ., Finite element analysis of trimming process., Postgraduate, S.Ş.(Student), 2002
- Gökler M. İ., Darendeliler H., Finite element analysis of effects of tapered preforms on final product in cold upsetting, Postgraduate, Ö.Doğan(Student), 2000
- DARENDELİLER H., Finite element analysis of effects of tapered preforms on final product in cold upsetting, Postgraduate, Ö.DOĞAN(Student), 2000
- DARENDELİLER H., SOYLU R., Optimal shape design of two dimensional rigid bodies with constraints on their kinematic and inertial parameters, Postgraduate, S.GÜREL(Student), 2000
- DARENDELİLER H., Optimal shape design of two dimensional rigid bodies with constraints on their kinematic and inertial parameters, Postgraduate, S.Gürel(Student), 2000
- Gökler M. İ., Darendeliler H., Finite element analysis of piercing operation on forging machines, Postgraduate, T.Moğulkoç(Student), 1999
- DARENDELİLER H., An Elastic-plastic shell finite element, Postgraduate, A.TURGUT(Student), 1997
- DARENDELİLER H., Analysis of the effect of friction in sheet metal drawing, Postgraduate, C.ALİ(Student), 1997
- DARENDELİLER H., Finite element modelling of non-axisymmetric deep drawing, Postgraduate, C.TENDÜRÜS(Student), 1997
- DARENDELİLER H., Computer aided optimal design of spur and helical gears., Postgraduate, E.ULUGÜL(Student), 1997
- DARENDELİLER H., Finite element analysis of tapered preforms in cold upsetting, Postgraduate, N.ELMASKAYA(Student), 1997
- DARENDELİLER H., Experimental and numerical analysis of deep drawing, Postgraduate, O.YILDIRIM(Student), 1997
- DARENDELİLER H., Finite element analysis of tapered preforms in cold upsetting, Postgraduate, N.Elmaskaya(Student), 1997
- DARENDELİLER H., Functional analysis, optimization and development of the brake system in Turk-Fiat tractors, Postgraduate, A.DİNÇER(Student), 1997
- DARENDELİLER H., AKKÖK M., Analysis of the effect of friction in sheet metal drawing, Postgraduate, C.Ali(Student), 1997
- DARENDELİLER H., One dimensional stress waves in longitudinal members, Postgraduate, M.ERSAN(Student), 1995

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Prediction of forming limit curve at fracture for sheet metal using new ductile fracture criterion**  
Dizaji S. A., DARENDELİLER H., KAFTANOĞLU B.  
EUROPEAN JOURNAL OF MECHANICS A-SOLIDS, vol.69, pp.255-265, 2018 (SCI-Expanded)
- II. **Buckling, postbuckling and progressive failure analyses of composite laminated plates under compressive loading**  
Namdar O., Darendeliler H.  
COMPOSITES PART B-ENGINEERING, vol.120, pp.143-151, 2017 (SCI-Expanded)
- III. **Comparison of different yield criteria in various deep drawn cups**  
Cogun F., DARENDELİLER H.  
INTERNATIONAL JOURNAL OF MATERIAL FORMING, vol.10, no.1, pp.85-98, 2017 (SCI-Expanded)
- IV. **Effect of hardening models on different ductile fracture criteria in sheet metal forming**  
Dizaji S. A., DARENDELİLER H., KAFTANOĞLU B.  
INTERNATIONAL JOURNAL OF MATERIAL FORMING, vol.9, no.3, pp.261-267, 2016 (SCI-Expanded)
- V. **Modelling of variable friction in cold forging**  
Cora O. N., AKKÖK M., DARENDELİLER H.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY, vol.222, pp.899-908, 2008 (SCI-Expanded)
- VI. **Finite element analysis of springback in bending of aluminium sheets**  
Esat V., Darendeliler H., Gokler M.  
MATERIALS & DESIGN, vol.23, no.2, pp.223-229, 2002 (SCI-Expanded)

- VII. **Effect of variable friction coefficient on sheet metal drawing**  
Darendeliler H., Akkok M., Yucesoy C.  
TRIBOLOGY INTERNATIONAL, vol.35, no.2, pp.97-104, 2002 (SCI-Expanded)
- VIII. **A pseudo-layered, elastic-plastic, flat-shell finite element**  
Darendeliler H., Oral S., Turgut A.  
COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING, vol.174, pp.211-218, 1999 (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. **The optimum die profile for the cylindrical bending of plates**  
Oral S., Darendeliler H.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.70, pp.151-155, 1997 (SCI-Expanded)
- XI. **The drum spring (DS) retractor: A constant and continuous force for canine retraction**  
Darendeliler M., Darendeliler H., Uner O.  
EUROPEAN JOURNAL OF ORTHODONTICS, vol.19, no.2, pp.115-130, 1997 (SCI-Expanded)
- XII. **Analysis of axisymmetric cup drawing in relation to friction**  
Darendeliler H., Altan T.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.58, pp.293-301, 1996 (SCI-Expanded)
- XIII. **ANALYSIS OF A CENTRAL MAXILLARY INCISOR BY USING A 3-DIMENSIONAL FINITE-ELEMENT METHOD**  
DARENDELİLER S., DARENDELİLER H., KINOĞLU T.  
JOURNAL OF ORAL REHABILITATION, vol.19, no.4, pp.371-383, 1992 (SCI-Expanded)
- XIV. **Deformation Analysis of Deep-Drawing by a Finite Element Method**  
DARENDELİLER H., Kaftanoğlu B.  
CIRP Annals - Manufacturing Technology, vol.40, no.1, pp.281-284, 1991 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Effects of triaxiality and lode parameter on deep drawing process**  
Güzelderen T., DARENDELİLER H.  
Materials Research Proceedings, vol.41, pp.1326-1333, 2024 (Scopus)
- II. **Effects of Temperature on Deep Drawing of an Aluminum Alloy for Different Yield Criteria and Hardening Models**  
Demirkol R. H., DARENDELİLER H.  
KEY ENGINEERING MATERIALS, vol.926, pp.784-801, 2022 (Scopus)
- III. **Analysis of Side-Wall Wrinkling in Deep Drawing Processes**  
Dal S. R., DARENDELİLER H.  
KEY ENGINEERING MATERIALS, vol.926, pp.732-743, 2022 (Scopus)
- IV. **The Effect of Strain Rate and Temperature on Forming Limit Diagram for DKP-6112 and AZ31 Materials**  
Goksen S., DARENDELİLER H.  
PROCEDIA MANUFACTURING, vol.47, pp.1241-1244, 2020 (Scopus)
- V. **A study on the constitutive equation effects in the fracture initiation of AA5450 sheets**  
DİZECİ Ş., DARENDELİLER H., KAFTANOĞLU B.  
Proceedings of the 7th International Conference on Fracture Fatigue and Wear, 2018 (Scopus)
- VI. **The Effect of Activator Treatment of Skeletal Class 2 Malocclusions on the Temporomandibular Joint Force**  
ÜNER O., DARENDELİLER H. N., DARENDELİLER H.  
Türk Ortodonti Dergisi, vol.11, no.3, pp.263-272, 1998 (Peer-Reviewed Journal)
- VII. **Eksenel Simetrik Levha Çekme İşlemlerinin Sonlu Elemanlar Yöntemiyle Analizi**

Darendeliler H.

Makina Tasarım ve İmalat Dergisi, vol.2, no.5, pp.217-224, 1995 (Peer-Reviewed Journal)

VIII. **An investigation on sample size distribution in electric discharge machining (EDM)**

Darendeliler H., Cogun C.

1991 (Scopus)

IX. **An Investigation on Sample Size Determination in Electric Discharge Machining EDM**

DARENDELİLER H., ÇOĞUN C.

Transactions of the Institution of Engineers, Australia, Mechanical Engineering, vol.16, no.4, pp.237-244, 1991 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **The effect of strain rate and temperature on forming limit diagram for DKP-6112 and AZ31 materials**  
Goksen S., DARENDELİLER H.  
23rd International Conference on Material Forming, ESAFORM 2020, Cottbus, Germany, 4 May - 08 April 2020, vol.47, pp.1241-1244
- II. **Baskı Plakası Kuvvetinin Derin Çekme İşlemi Üzerindeki Etkilerinin Farklı Pekleşme Kuralları ve Akma Kriterleri ile İncelenmesi**  
Dal S. R., DARENDELİLER H.  
21. Ulusal Mekanik Kongresi, Niğde, Turkey, 2 - 06 September 2019, pp.441-444
- III. **A study on the constitutive equation effects in the fracture initiation of AA5450 sheets**  
Dizaji S. A., DARENDELİLER H., Kaftanoğlu B.  
7th International Conference on Fracture Fatigue and Wear, FFW 2018, Ghent, Belgium, 9 - 10 July 2018, pp.78-83
- IV. **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
- V. **On the fracture prediction of 304L stainless steel sheets utilizing different hardening models**  
Dizaji S. A., DARENDELİLER H., KAFTANOĞLU B.  
10th International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Processes, Bristol, United Kingdom, 4 - 09 September 2016, vol.734
- VI. **Springback Analysis in Wipe Bending Process through Neural Networks**  
ŞENOL Ö., ESAT V., DARENDELİLER H.  
7th International Conference and Exhibition on Design and Production of Machines and Dies/Molds, 20 June 2013 - 23 June 2014
- VII. **Springback analysis in air bending process through experiment based artificial neural networks**  
Senol O., Esat V., DARENDELİLER H.  
11th International Conference on Technology of Plasticity, ICTP 2014, Nagoya, Japan, 19 - 24 October 2014, vol.81, pp.999-1004
- VIII. **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
- IX. **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
- X. **Experimental and Finite Element Analysis of Rotary Draw Tube Bending Process**  
Dere F., DARENDELİLER H., İDER S. K.

7th International Conference and Exhibition on Design and Production of Machines and Dies/Molds, Antalya, Turkey, 20 - 23 June 2013, pp.51-58

- XI. **Comparison of Different Constitutive Models in Sheet Metal Forming**  
Ucan M., Darendeliler H.  
16th ESAFORM Conference on Material Forming (ESAFORM 2013), Aveiro, Portugal, 22 - 24 April 2013, vol.554-557, pp.1203-1216
- XII. **Effect Of Anisotropy on the Hydroforming of Aluminum Alloy AA6061-T6 Using Newly Developed Method**  
Dzaji S. A., Djavanroodi F., Darendeliler H.  
International Mechanical Engineering Forum Prague 2012, Praha, Czech Republic, 20 - 22 February 2012, pp.15-17
- XIII. **Large deformation analysis of laminated composite plates**  
YILDIZ T., Olcay Y., DARENDELİLER H.  
11th International Conference on Computational Structures Technology, CST 2012, Dubrovnik, Croatia, 4 - 07 September 2012, vol.99
- XIV. **Bending Tool Design for a Complex Part Using a Finite Element Analysis Based Approach**  
Esat V., Darendeliler H., Gökler M. I.  
6th International Conference and Exhibition on Design and Production of Machines and Dies/Molds, Ankara, Turkey, 23 - 26 June 2011, pp.77-82
- XV. **Finite element analysis of shearing processes**  
İsbir 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
- XVI. **Finite Element Analysis of Header Dies for Upset Forging**  
CERAN M., GÖKLER M. İ., DARENDELİLER H.  
Eighth International Conference on Computational Structures Technology, Las Palmas, Spain, 12 - 15 September 2006
- XVII. **Finite Element Analysis of Shearing Process**  
İşbir S., DARENDELİLER H., GÖKLER M. İ.  
Fifth International Conference on Engineering Computational Technology, Las Palmas, Spain, 12 - 15 September 2006
- XVIII. **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
- XIX. **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
- XX. **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
- XXI. **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
- XXII. **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
- XXIII. **Elastic-plastic large strain large displacement analysis of sheet metal forming processes**

Darendeliler H.

1st International Conference on Engineering Computational Technology/4th International Conference on Computational Structures Technology, Edinburgh, Saint Helena, 18 - 21 August 1998, pp.343-348

**XXIV. Temporomandibular Eklem Üzerinde Oluşan Kuvvetlerin Analizi**

Üner O., Darendeliler H. N., Darendeliler H.

Macintosh Üzerinde Akademik Uygulamalar Kongresi, Antalya, Turkey, 25 - 28 May 1995, pp.51-59

**XXV. Isırma Kuvveti ve Çiğneme Kas Kuvvetlerinin Temporomandibuler Eklem Üzerindeki Etkilerinin İncelenmesi**

ÜNER O., DARENDELİLER H. N., DARENDELİLER H.

4. Uluslararası Türk Ortodonti Derneği Kongresi, Antalya, Turkey, 04 September 1994

**XXVI. Computer-Aided Modelling of Sheet-Metal Forming**

KAFTANOĞLU B., DARENDELİLER H.

26th International Symposium on Automotive Technology and Automation, Aachen, Germany, 13 September 1993

**XXVII. Derin Çekme İşleminin Dikdörtgen Şekiller için Sonlu Elemanlar Yöntemiyle Belirlenmesi**

DARENDELİLER H., KAFTANOĞLU B.

5. Ulusal Makina Tasarım ve İmalat Kongresi, Ankara, Turkey, 16 - 18 September 1992, pp.151-162

**XXVIII. Optimum Blank Design in Deep-Drawing**

DARENDELİLER H., KAFTANOĞLU B.

Proceedings of the 2nd International Conference on Automation Technology, Taipei, Taiwan, 4 - 06 July 1992

**XXIX. Elektro-Erozyon ile İşlemede (EDM) Deney Sayısının Saptanması**

DARENDELİLER H., ÇOĞUN C., ERDEN A.

2. Ulusal Makina Tasarım ve İmalat Kongresi, Ankara, Turkey, 17 September 1986, pp.141-151

## Patent

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

## Activities in Scientific Journals

Makina Tasarım ve İmalat Dergisi, Editor, 1993 - 1999

## Scientific Refereeing

INTERNATIONAL JOURNAL OF MATERIAL FORMING, Journal Indexed in SCI-E, July 2022

ENGINEERING FAILURE ANALYSIS, Journal Indexed in SCI-E, August 2021

INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, Journal Indexed in SCI-E, June 2021

INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, Journal Indexed in SCI-E, September 2019

INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, Journal Indexed in SCI-E, September 2018

ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, Journal Indexed in SCI-E, January 2018

INTERNATIONAL JOURNAL OF MANUFACTURING TECHNOLOGY AND MANAGEMENT, Other Indexed Journal, January 2017

INTERNATIONAL JOURNAL OF MATERIALS AND PRODUCT TECHNOLOGY, Journal Indexed in SCI-E, August 2016

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## **Non Academic Experience**

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