

HÜSEYİN KÜRŞAT ÇELİK

ASSOC. PROF.

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Faculty of Agriculture Akdeniz University 07070 / Antalya – Turkey

International Researcher IDs

ScholarID: Kpz1Lt4AAAAJ

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Publons / Web Of Science ResearcherID: C-6846-2016

ScopusID: 24437350800

Yoksis Researcher ID: 127754

Biography

Dr Çelik completed his first BSc (2003) and MSc (2006) degrees at the Dept. of Mechanical Education, Kocaeli University (Turkey) and obtained his second BSc degree at the Dept. of Mechanical Engineering (Engineering Completion Program), Faculty of Engineering, Akdeniz University (Turkey) (2022). He completed his PhD degree at Dept. of Agricultural Machinery, Akdeniz University (2013). He worked as a Research Assistant at Akdeniz University between 2007 and 2013, and received the positions of Assistant Professor in 2013 and Associate Professor in 2018.

His main research interests are **Computer Aided Design and Engineering, Engineering Simulations, Finite Element Method/Analysis, Structural Optimization, Materials Testing, Experimental Stress Analysis, Agricultural Machinery/Equipment Design, Reverse Engineering and Additive Manufacturing Applications.**

Dr Çelik has more than fifteen years of professional and applied engineering experience in the machine design - manufacturing industry and academia. He has advanced user certificates related to engineering design and simulation software specific to his field. He has participated in joint research projects supported by scientific/industrial funds in Turkey and the United Kingdom (Lancaster University) and has more than 100 scientific studies published in both national and international scientific arenas, peer-reviewed journals, congress/conference proceedings and industrial journals.

Dr Çelik is currently a faculty member at Akdeniz University and has been actively participating in research activities as a visiting researcher at Lancaster University, England, since 2009.

Learning Knowledge

Undergraduate 2020 - 2022	Akdeniz University, Faculty Of Engineering, Department of Mechanical Engineering, Turkey
Doctorate 2007 - 2013	Akdeniz University, Fen Bilimleri Enstitüsü, Tarım Makinaları Abd, Turkey
Postgraduate 2003 - 2006	Kocaeli University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Turkey

Undergraduate
1998 - 2003

Kocaeli University, Teknik Eğitim Fakültesi, Makine Eğitimi (Otomotiv Öğretmenliği Programı), Turkey

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Vocational Course, ADVANCED ENGINEERING MATERIALS & ADDITIVE MANUFACTURING TECHNOLOGIES WORKSHOP / 27.10.2017 / , The Metal Forming Centre of Excellence (MFCE) – Atılım University - Ankara / TURKEY, 2017

Vocational Course, PRECISION AGRICULTURE TECHNOLOGIES WORKSHOP / 22.05.2013, Akdeniz University - Antalya / TURKEY, 2013

Vocational Course, SOLIDWORKS MOTION: MOTION-KINEMATIC APPLICATIONS / 2011 / (Attended to version update courses in 2012), YENASOFT I.C – Istanbul / TURKEY, 2011

Vocational Course, SOLIDWORKS FLOW SIMULATION (COSMOSFLOWWORKS): CFD APPLICATIONS / 2008 / (Attended to version update courses in 2009 and 2016), YENASOFT I.C – Istanbul / TURKEY, 2008

Vocational Course, SOLIDWORKS SIMULATION (COSMOSWORKS): ADVANCED FEA APPLICATIONS / 2008 / (Attended to version update courses in 2012 and 2016), YENASOFT I.C – Istanbul / TURKEY, 2008

Vocational Course, ADVANCED ANSYS WORKBENCH / 2007 / , FIGES, Computer Simulation in Physics and Geometry I.C - Bursa / TURKEY, 2007

Vocational Course, SOLIDWORKS ADVANCED / 2006 / (Attended to version update courses in 2008 and 2011), UMTAS I.C – Istanbul / TURKEY, 2006

Vocational Course, INTRODUCTION TO ANSYS (CLASSIC INTERFACE) / 2006 / , FIGES, Computer Simulation in Physics and Geometry I.C - Bursa / TURKEY, 2006

Vocational Course, REFERENCE & WORKSHOP FOR COMPUTER-AIDED ENGINEERING AND SYSTEM MODELLING / 14-15.11.2005 / , FIGES, Computer Simulation in Physics and Geometry I.C - Bursa / TURKEY, 2005

Vocational Course, INTRODUCTION TO ANSYS & ANSYS WORKBENCH / 2005 / , FIGES, Computer Simulation in Physics and Geometry I.C - Bursa / TURKEY, 2005

Dissertations

Doctorate, Tarım Makineleri Tasarımında Yapısal Optimizasyon Tekniklerinin Uygulanması Üzerine Bir Araştırma: Tamburlu Çayır Bıçme Makinesi Örneği, Akdeniz University, Institute of Science, Tarım Makinaları, 2013

Postgraduate, Dişli Pompalarda Dişli Çark ve Pompa Gövdesinin Sonlu Elemanlar Metodu ile Gerilme Analizi, Kocaeli University, Fen Bilimleri Enstitüsü, Makine Eğitimi, 2006

Academic Titles / Tasks

Associate Professor
2018 - Continues

Akdeniz University, Faculty of Agriculture, Department of Agricultural Machinery and Technologies Engineering

Specialist Instructor
2009 - Continues

University of Lancaster, (Visiting Academics) - Engineering Department ,
Lancaster Product Development Unit (LPDU)

Assistant Professor
2013 - 2018

Akdeniz University, Faculty of Agriculture, Department of Agricultural Machinery
and Technologies Engineering

Research Assistant
2007 - 2013

Akdeniz University, Faculty of Agriculture, Department of Agricultural Machinery
and Technologies Engineering

Lecturer
2004 - 2005

Kocaeli University, Ali Rıza Veziroğlu Meslek Yüksekokulu, Makine Ve Metal
Teknolojileri

Supported Projects

1. ORAL O., ÇAĞLAYAN N., ÜSER Y., ÇELİK H. K., UZUN H. İ., ÇAKIR M., Project Supported by Higher Education Institutions, Tarımın İnterneti (IoF - Internet of Farming) Uygulaması Çoklu Tarımsal Durum İzleme ve Değerlendirme Sistemi, 2019 - 2021
2. ÇELİK H. K., RENNİE A., AKINCI İ., Project Supported by Higher Education Institutions, Design and structural optimisation of a tractor mounted telescopic boom crane, 2017 - 2021
3. ÇAĞLAYAN N., ORAL O., ÇELİK H. K., ONUS A. N., ERTEKİN C., Project Supported by Higher Education Institutions, Doku Kültürü Ortamları İçin Dalgaboyu ve Aydınlık Şiddeti Programlanabilir LED LGP (Light Guide Plate) Panel Lamba Tasarımı, 2018 - 2020
4. Çelik H. K., Kunt G., Project Supported by Higher Education Institutions, A research on the usability and adaptation of additive manufacturing technologies in design and manufacturing of agricultural machinery: rapid prototyping case study for plastic based fasteners, 2018 - 2019
5. ÇELİK H. K., Other International Funding Programs, 3D Katman İmalat Teknolojilerinin Tarım Makinaları Tasarım ve İmalat Sanayiinde Kullanılabilirliğinin ve Adaptasyonunun Araştırılması Üzerine Bir Uluslararası İşbirliği Faaliyeti: "Bir Şeyi Yapabilme Bilgisi (Know - How) Öğrenimi, Teknoloji Adaptasyonu ve Transferi, 2016 - 2017
6. ÇELİK H. K., AKINCI İ., TOPAKCI M., ÇAĞLAYAN N., Project Supported by Higher Education Institutions, ParaPlow Aletinin Mukavemete Dayalı Yapısal Tasarım Özelliklerinin Deneysel ve Bilgisayar Destekli Tasarım Mühendislik Teknikleri ile Belirlenmesi, 2015 - 2016
7. Çınar R., Çelik H. K., TUBITAK Project, EPDM POWER TOOLS Eklenti Yazılımının Tasarımı, Geliştirilmesi ve Pilot Uygulaması, 2013 - 2014
8. Arıcan E., Çelik H. K., KOSGEB, Silindir Baskı Düzenekli bir Sırt Yapma Makinasının Bilgisayar Destekli Tasarımı ve Prototip İmalatı, 2012 - 2013
9. Akıncı İ., Çelik H. K., Project Supported by Higher Education Institutions, Research on the implementation of structural optimisation techniques in agricultural machinery design: Case study for a rotary drum mower machine, 2011 - 2013
10. Akıncı İ., Çelik H. K., Project Supported by Higher Education Institutions, A Research on Computer Aided Design and Structural Optimisation of a Tractor Attachable Telescopic Lifter, 2011 - 2012
11. Topakcı M., Karayel D., Çanakcı M., Ünal İ., Çelik H. K., Project Supported by Higher Education Institutions, Hassas Uygulamalı Tarıma Yönelik Yatay Penetrometre Tasarımı ve Toprak Penetrasyon Direncinin Coğrafik Bilgi Sistemleri (CBS) ile Haritalanması, 2009 - 2011

Scholarships

YARDIMCI DOÇENT YURTDIŞI EĞİTİM VE ARAŞTIRMA DESTEĞİ, Foundation, 2013 - Continues

Jury Memberships

Post Graduate, Yüksek Lisans Tez Savunma Jürisi, Kocaeli Üniversitesi, August, 2020
Post Graduate, Yüksek Lisans Tez Savunma Jürisi, Kocaeli Üniversitesi, July, 2019
Post Graduate, Yüksek Lisans Tez Savunma Jürisi, Kocaeli Üniversitesi, July, 2019
Post Graduate, Yüksek Lisans Tez Savunma Jürisi, Kocaeli Üniversitesi, July, 2019
Post Graduate, Yüksek Lisans Tez Savunma Jürisi, Akdeniz Üniversitesi, June, 2019
Post Graduate, Tez Savunma Jürisi, Akdeniz Üniversitesi, June, 2019
Doctorate, Doktora Tez Savunma Jürisi, Akdeniz Üniversitesi, May, 2018

Articles Published in Other Journals

- 1. Finite Element Stress Analysis of PEEK, Glass Fiber and Zirconia Post-Core Systems in Maxillary Central Incisor**
ÖZARSLAN M., BÜYÜKKAPLAN U. Ş., ÖZARSLAN M. M., TÜRKER N., ÇELİK H. K.
VAN SAĞLIK BİLİMLERİ DERGİSİ, vol.14, no.2, pp.180-190, 2021 (Peer-Reviewed Journal)
- 2. Strength-Based Design Analysis of a Damaged Engine Mounting Bracket Designed for a Commercial Electric Vehicle**
Celik H. K., ERSOY H., DOĞAN A., Eravci G., Rennie A. E. W., AKINCI İ.
JOURNAL OF FAILURE ANALYSIS AND PREVENTION, vol.21, no.4, pp.1315-1322, 2021 (ESCI)
- 3. CFD Simulation of Air Flow Behaviour at Different Flow Rates in a Turkish Woodwind Instrument (Turkish Treble Recorder)**
Çelik H. K., Bedel A., Gök S., Rennie A. E. W.
Open Journal of Acoustics, vol.11, pp.1-16, 2021 (Peer-Reviewed Journal)
- 4. Katmanlı İmalat Teknolojileri Konusunda Yapılan Uluslararası Bilimsel Yayınlar için Güncel Durum İncelemesi**
ÇELİK H. K., Kunt G., AKINCI İ.
Tarım Makinaları Bilimi Dergisi, vol.16, no.3, pp.39-51, 2020 (Peer-Reviewed Journal)
- 5. Özel Tasarım Bir Gübre Sıyırıcı Küreğinin Yapısal ve İşlevsel Elemanlarında Sonlu Elemanlar Yöntemi ile Gerilme Analizi**
BOYAR İ., ÇELİK H. K., YILMAZ D.
ÇOMÜ Ziraat Fakültesi Dergisi, vol.8, no.1, pp.137-143, 2020 (Peer-Reviewed Journal)
- 6. A Potential Research Area Under Shadow In Engineering: Agricultural Machinery Design and Manufacturing**
ÇELİK H. K., Rennie A. E., AKINCI İ.
ISPEC Journal of Agricultural Sciences, vol.4, no.2, pp.66-86, 2020 (Peer-Reviewed Journal)
- 7. Özel Tasarım Bir Bilyeli Değirmen Makinesine Ait Boyun Yataklarının Gerilme Analizi**
Çelik H. K., Çetinkaya Ç., Ak F., Özmen O.
Kocaeli Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.3, no.1, pp.31-36, 2020 (Peer-Reviewed Journal)
- 8. Determination of the Failure Susceptibility of a Flat Die Used in Biomass Pelletizing Machines by Means of FEA-Based Design Exploration**
ÇELİK H. K., YILMAZ H., Rennie A. E. W., ÇINAR R., FIRAT M. Z.
JOURNAL OF FAILURE ANALYSIS AND PREVENTION, vol.18, no.5, pp.1099-1110, 2018 (ESCI)
- 9. A SHORT REVIEW ON 4D PRINTING (4B YAZDIRMA (4D PRINTING) ÜZERİNDE BİR KISA İNCELEME)**
KHAN F. A., ÇELİK H. K., ORAL O., RENNIE A. W.
International Journal of 3D Printing Technologies and Digital Industry, vol.2, no.2, pp.59-67, 2018 (Peer-Reviewed Journal)
- 10. Finite Element Analysis of a PTO Shaft Used in an Agricultural Tractor**
ÇELİK H. K., ÇINAR R., KUNT G., RENNIE A. E., UÇAR M., AKINCI İ.
Ergonomics International Journal, vol.2, no.3, pp.147, 2018 (Peer-Reviewed Journal)

11. **Fuzzy Logic Based Ventilation for Controlling Harmful Gases in Livestock Houses**
ÇAĞLAYAN N., ÇELİK H. K., RENNIE A. W.
Tarım Makinaları Bilimi Dergisi, vol.13, no.2, pp.107-112, 2017 (Peer-Reviewed Journal)
12. **Non-linear fem-based shattering simulation of shelled edible agricultural products: Walnut shattering by nut cracker hand tool**
Çelik H. K., Kunt G., Rennie A. E., Akıncı İ.
International Journal of Technology and Engineering Studies, vol.3, no.2, pp.84-92, 2017 (Peer-Reviewed Journal)
13. **Çarpma Etkisi Altında Kalan Armut Meyvelerinin (Ankara çeşidi) Zedelenme Hacminin Doğrusal Olmayan Dinamik Sonlu Elemanlar Analizi ile Belirlenmesi (Determination of Bruise Volume of Pear Fruit (Ankara Variety) under Mechanical Collision Effect by means of Non Linear Dynamics Finite Element Analysis)**
ÇELİK H. K., AKINCI İ.
Tarım Makinaları Bilimi Dergisi, vol.12, no.1, pp.1-10, 2016 (Peer-Reviewed Journal)
14. **Pıkan Meyvesi Çekirdeklerinin Doğrusal Olmayan Sonlu Elemanlar Yöntemi Temelli Simülasyonu (Non linear FEM Based Compression Simulation of Pecan Fruit Kernels)**
ÇELİK H. K.
Akademik Gıda (Academic Food), vol.14, no.1, pp.1-7, 2016 (Peer-Reviewed Journal)
15. **Analytical and Finite Element Method Based Stress Analysis of Rotary Elements: Case Study for the Motion Transmission Gears of a Rotary Drum Mower**
ÇELİK H. K., AKINCI İ.
JOURNAL OF FAILURE ANALYSIS AND PREVENTION, vol.16, no.2, pp.293-301, 2016 (ESCI)
16. **Tamburlu Çayır Bıçma Makinesi Hareket İletim Millerinin Analitik ve Sonlu Elemanlar Yöntemi ile Gerilme Analizi (Analytical and Finite Element Method Based Stress Analysis of the Motion Transmission Axels of A Rotary Drum Mowe)**
ÇELİK H. K., AKINCI İ.
Tarım Makinaları Bilimi Dergisi, vol.11, no.3, pp.247-255, 2015 (Peer-Reviewed Journal)
17. **Determination of head losses in drip irrigation laterals with cylindrical in-line type emitters through CFD analysis**
ÇELİK H. K., KARAYEL D., Lupeanu M., Rennie A., AKINCI İ.
Bulgarian Journal of Agricultural Science, vol.21, no.3, pp.703-710, 2015 (Scopus)
18. **Rapid Prototyping and Flow Simulation Applications in Design of Agricultural Irrigation Equipment: Case Study for a Sample In Line Drip Emitter**
ÇELİK H. K., KARAYEL D., ÇAĞLAYAN N., Rennie A., AKINCI İ.
VIRTUAL AND PHYSICAL PROTOTYPING, no.6, pp.47-56, 2011 (Scopus)
19. **Determination of Flow Parameters through CFD Analysis for Agricultural Irrigation Equipment: A Case Study for a Mini Valve**
ÇELİK H. K., Rennie A. E. W., KARAYEL D., AKINCI İ.
Journal of Agricultural Machinery Science, vol.7, no.3, pp.231-239, 2011 (Peer-Reviewed Journal)
20. **Structural optimization of a subsoiler**
Topakcı M., Çelik H. K., Çanakcı M., Karayel D., Rennie A.
PAKISTAN JOURNAL OF AGRICULTURAL SCIENCES, vol.53, no.5, pp.281-287, 2010 (Peer-Reviewed Journal)
21. **Failure analysis of a location axle in tracked tractor**
ÇELİK H. K., YILMAZ D., ÜNAL N., AKINCI İ.
JOURNAL OF FAILURE ANALYSIS AND PREVENTION, vol.9(3), pp.282-287, 2009 (Scopus)
22. **Stress Analysis on Transmission Gears of a Rotary Tiller using Finite Element Method**
TOPAKCI M., ÇELİK H. K., YILMAZ D., AKINCI İ.
Akdeniz University Journal of the Faculty of Agriculture, vol.21, no.2, pp.155-160, 2008 (Peer-Reviewed Journal)
23. **Çizelin Yapısal ve İşlevsel Elemanlarında Sonlu Elemanlar Yöntemi ile Mukavemet Analizi**
ÇELİK H. K., TOPAKCI M., YILMAZ D., AKINCI İ.
TARIM MAKİNALARI BİLİMİ DERGİSİ, vol.3, no.2, pp.111-116, 2007 (Peer-Reviewed Journal)
24. **Hidrolik Boom Tipi Örnek Bir Krende Statik Yükleme Sonucu Oluşan Gerilmelerin Sonlu Elemanlar**

Yöntemi ile incelenmesi

ÇELİK H. K., UÇAR M., ÇAVDAR A.

Makine Teknolojileri Elektronik Dergisi (MTED), vol.4, no.4, pp.23-30, 2007 (Peer-Reviewed Journal)

Books & Book Chapters

- Artırılmış Gerçeklik Teknolojisinin Tarım Makineleri Alanı Ders Kitabı Entegrasyonu Uygulama Örneği**
Çelik H. K., Çelik I., Çağlayan N.
in: Tarımsal Mekanizasyon ve Enerji Üzerine Güncel Araştırmalar II, Prof. Dr. Bahadır SAYINCI, Editor, Akademisyen Kitabevi, Ankara, pp.1-12, 2022
- Bir Süt Çiftliği İçin Şebekeye Bağlı Çatı Tipi Fotovoltaik Sistemin Teknik Ve Ekonomik Analizi**
Çağlayan N., Çelik H. K., Ertekin C.
in: Tarımsal Mekanizasyon ve Enerji Üzerine Güncel Araştırmalar II, Prof. Dr. Bahadır SAYINCI, Editor, Akademisyen Kitabevi, Ankara, pp.33-60, 2022
- Traktör Kabin Tasarımında Tersine Mühendislik Uygulaması Örneği**
Çelik H. K., Yağız Ş., Karabulut B., Akıncı İ.
in: TARIMSAL MEKANİZASYON ve ENERJİ ÜZERİNE GÜNCEL ARAŞTIRMALAR, Deniz Yılmaz, Osman Gökdoğan, Önder Uysal, Mehmet emin Gökdoğan, Ahmet Süslü, Editor, Akademisyen Kitabevi, Ankara, pp.171-182, 2022
- Hareket İletim Elemanları**
Çelik H. K.
in: TARIM MAKİNALARI ÇÖZÜMLÜ PROBLEMLERİ, Can Ertekin, Adem Comart, Editor, Nobel Academic Publication, Ankara, pp.399-418, 2022

Refereed Congress / Symposium Publications in Proceedings

- Özel Tasarım Bir Gübre Sıyırıcı Küreğinin Yapısal ve İşlevsel Elemanlarında Sonlu Elemanlar Yöntemi ile Gerilme Analizi**
BOYAR İ., ÇELİK H. K., YILMAZ D.
32. Ulusal Tarımsal Mekanizasyon ve Enerji Kongresi, Çanakkale, Turkey, 4 - 06 September 2019, vol.1, no.1, pp.113
- A potential research area under shadow in engineering: Agricultural machinery design and manufacturing**
Çelik H. K., Rennie A. E., Akıncı İ.
2nd International Conference on Materials Science and Materials Chemistry, London, England, 20 - 21 March 2019, vol.3, no.1, pp.22
- Product Development for Additive Manufacturing in Biomedical Applications**
ULMEANU M., DOICIN C., PINTRIJAL I., BARBARII N., ÇELİK H. K.
1st International Conference on Emerging Technologies in Materials Engineering EmergeMAT and 4th International Workshop on Materials under Extreme Conditions SUPERMAT, Bucharest, Romania, 14 - 16 November 2018, vol.1, no.1, pp.29
- SEEDING PERFORMANCE COMPARISON OF THREE DIFFERENT PROTOTYPES OF A SEED SINGULATOR USED IN A PRECISION VACUUM SEEDER**
ÖZDEMİR E., KUNT G., YILMAZ H., KARAYEL D., TOPAKCI M., ÇELİK H. K., ÜNAL İ.
19. World Congress of Cigr, Antalya, Turkey, 22 - 25 April 2018, pp.279
- A Short Review on 4d Printing**
KHAN F. A., ÇELİK H. K., ORAL O., RENNIE A. E.
The third International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry (3D-

PTC2018), Antalya, Turkey, 19 - 21 April 2018, pp.1-8

6. **Sabit Mesnetli Basit Bir Kiriş Elemanda, Tek Eksenli Yükleme Koşulunda Ortaya Çıkan Gerilme Değerlerinin Analitik, Deneysel ve Sayısal Yöntemler ile Belirlenmesi**
Çelik H. K., Akıncı İ.
29. Ulusal Tarımsal Mekanizasyon ve Enerji Kongresi (TARMEK-2015), Diyarbakır, Turkey, 2 - 09 September 2015, vol.1, pp.1
7. **Deformation Simulation of a Tyre Safety Cage in Testing of Agricultural Vehicle Tyres**
Çelik H. K., Rennie A. E. W., Dowson D., Eatough A., Eatough J., Akıncı İ.
International Scientific XXXVI CIOSTA & CIGR Section V Conference 2015, Sankt-Peterburg, Russia, 26 - 28 May 2015, vol.1, pp.172-183
8. **PREDICTING LIMIT DRAFT FORCE FOR A CHISEL TINE USING FEA BASED SIMULATION**
Çelik H. K., Rennie A. E. W., Akıncı İ.
5th International Conference on Trends in Agricultural Engineering, Prague, Czech Republic, 3 - 06 September 2013, pp.112-117
9. **Tarım Makineleri Tasarımı ve Geliştirilmesinde Bilgisayar Destekli Tasarım ve Mühendislik Uygulamaları**
Çelik H. K., Akıncı İ.
27. Tarımsal Mekanizasyon Ulusal Kongresi (TARMEK-2012), Samsun, Turkey, 5 - 07 September 2012, vol.1, pp.432-440
10. **Non-Linear Stress Analysis for the Bolt Connections of Chisel Tine using Finite Element Method**
Çelik H. K., Rennie A., Akıncı İ.
International Conference of Agricultural Engineering (CIGR-AgEng 2012), Valencia, Spain, 8 - 12 July 2012, pp.8
11. **Stress Analysis of a Sample Marine Crane's Boom under Static Loading Condition.**
ÇELİK H. K., ÇAĞLAYAN N., ÇINAR R., ERSOY H., UÇAR M., Rennie A.
5th International Mechanical Engineering Forum 2012, Prag, Czech Republic, 20 - 22 June 2012, pp.246-256
12. **Design for Manufacture using Functional Analysis and CAD Mould Simulation for Rapid Prototyping and Rapid Tooling**
Lupeanu M. E., Brooks N. H., Rennie A., Çelik H. K., Neagu C., Akıncı İ.
ASME 2012 11th Biennial Conference on Engineering Systems Design and Analysis, Advanced Manufacturing Processes, Nantes, France, 2 - 04 July 2011, vol.1, pp.63-70
13. **Sizing Optimisation of A Subsoiler Framework Using Advanced Engineering Tools**
Çelik H. K., Rennie A., Topakcı M., Akıncı İ.
CIOSTA Conference 2011, Vienna, Austria, 29 June - 01 July 2011, pp.1
14. **Product Optimisation by Rapid Manufacturing and Targeted Functional Analysis: A Case Study for A Pump Impeller**
LUPEANU M. E., Rennie A. E. W., NEAGU C., ÇELİK H. K.
16th European Forum on Rapid Prototyping and Manufacturing (AEPR'11), Paris, France, 21 - 23 June 2011, vol.1, pp.14
15. **Deformation Simulation of Additive Manufacturing FDM Parts: A Case Study for Greenhouse Clips**
Çelik H. K., Hambalı R., Rennie A., Akıncı İ.
", 12th Rapid Design, Prototyping & Manufacturing Conference (RDPM 2011), Lancaster, England, 17 June 2011, pp.1
16. **Effect of Build Orientation on FDM Parts: A Case Study for Validation of Deformation Behaviour by FEA)**
HAMBALI R. H., ÇELİK H. K., SMITH P., Rennie A. E. W., UÇAR M.
International Conference on Design and Concurrent Engineering-(IDECON 2010, Melaka, Malaysia, 20 - 21 September 2010, vol.1, pp.224-228
17. **Rapid prototyping and flow simulation applications in design of agricultural irrigation equipment: A case study for a sample in-line drip emitter**
ÇELİK H. K., KARAYEL D., ÇAĞLAYAN N., Rennie A., AKINCI İ.
11th National Conference on Rapid Design, Prototyping and Manufacturing, Lancaster University, Lancaster

Product Development Unit, Engineering Department, Lancaster, United Kingdom, 11 June 2010, pp.181-192

18. **Rapid prototyping and flow simulation applications in design of agricultural irrigation equipment: A case study for a sample in-line drip emitter**
ÇELİK H. K., KARAYEL D., ÇAĞLAYAN N., Rennie A., AKINCI İ.
11th National Conference on Rapid Design, Prototyping and Manufacturing, Lancaster University, Lancaster Product Development Unit, Engineering Department, Lancaster, United Kingdom, 11 June 2010, pp.181-192
19. **Effect of Thermal and Mechanical Deformation of Metamaterial FDM Components**
ÇELİK H. K., TAN Y. S., SEVİOUR R., Rennie A. E. W.
US-TURKEY Workshop on Rapid Technologies, İstanbul, Turkey, 24 September 2009, vol.1, pp.83-88
20. **FATIGUE ANALYSIS OF THE MOUNTED TRANSPORT BOX BASED ON FINITE ELEMENT METHOD**
Yılmaz D., Çelik H. K., Topakcı M., Akıncı İ.
37th International Symposium of Agricultural Engineering, Opatija, Croatia, 10 - 13 February 2009, vol.37, pp.465-473
21. **STRUCTURAL OPTIMIZATION WITH FEM IN AGRICULTURAL ENGINEERING: A CASE STUDY FOR IRRIGATION PLUMBING ELEMENT**
Çelik H. K., Topakcı M., Akıncı İ.
37th International Symposium of Agricultural Engineering, Opatija, Croatia, 10 - 13 February 2009, vol.37, pp.497-506
22. **Deformation Behavior Simulation of a Sample Apple under the Impact Effect with Finite Elements Method**
Çelik H. K., Kabas O., Topakcı M., Özmerzi A., Akıncı İ.
10th International Congress on Mechanization and Energy in Agriculture, Antalya, Turkey, 14 - 17 October 2008, vol.1, pp.893-897
23. **Deformation behaviour simulation of a sample apple under the impact effect with finite elements method**
ÇELİK H. K., KABAŞ Ö., TOPAKCI M., Özmerzi A., AKINCI İ.
10th International Congress on Mechanization and Energy in Agriculture, Akdeniz University, Faculty of Agriculture, Department of Agricultural Machinery, Antalya, Turkey, 14 - 17 October 2008, pp.893-897
24. **2008, Evaluation of Turkey's Tractor Population In Terms of Economic Life**
AKINCI İ., ÇANAKCI M., YILMAZ D., ÇELİK H. K.
10th International Congress on Mechanization and Energy in Agriculture, Antalya, Turkey, 14 - 17 October 2008, vol.1, pp.77-83
25. **Structural stress analysis under the static load of a tractor mounted lifting apparatus**
ÇELİK H. K., YILMAZ D., AKINCI İ.
CIGR-International Conference of Agricultural Engineering, CD version, Iguassu Falls City, Brazil, 31 August - 04 September 2008, pp.1
26. **Structural Stress Analysis under the Static Load of a Tractor Mounted Lifting Apparatus,**
Çelik H. K., Yılmaz D., Akıncı İ.
International Conference of Agricultural Engineering XXXVII Brazilian Agricultural Engineering International livestock Symposium-ILES VIII, Iguatu, Brazil, 31 August - 04 September 2008, vol.1, pp.4
27. **Harvesting and Threshing Mechanization of Sesame Plant**
YILMAZ D., ÇELİK H. K., AKINCI İ.
International Conference of Agricultural Engineering XXXVII Brazilian Agricultural Engineering International livestock Symposium-ILES VIII, 31 August - 04 September 2008, vol.1, pp.5
28. **Harvesting and threshing mechanization of sesame plant**
Yılmaz D., Çelik H. K., Akıncı İ.
CIGR-International Conference of Agricultural Engineering, CD version, Iguatu, Brazil, 31 August - 04 September 2008, vol.x/x
29. **Structural strength analysis of a subsoiler with finite elements method**
ÇELİK H. K., TOPAKCI M., ÇANAKCI M., AKINCI İ.
5th International Soil Congress ISTRO-2008, Brno, Czech Republic, 28 June - 02 July 2008, pp.15

30. **Yüksek Basınçlı Dişli Pompalarda Gövdenin Parametrik Tasarımı, Gerilme Analizi ve Optimizasyonu**
ÇELİK H. K., UÇAR M., CENGİZ A. K.
IV. Makine Tasarım ve imalat Teknolojileri Kongresi (IV.MATIT), Konya, Turkey, 24 - 25 November 2007, vol.1, pp.221-235

Academic and Administrative Experience

2022 - Continues	Director of Vocational School	Akdeniz University, Kumluca Vocational School
2021 - 2022	Assistant Director of the Institute	Akdeniz University, Institute of Science, Institute of Science

Courses

MAKİNE ELEMENLARI , Undergraduate, 2018 - 2019
TARIM MAKİNALARI UYGULAMALARI - I, Undergraduate, 2018 - 2019, 2014 - 2015
TARIM MAKİNALARINDA PROJELENDİRME, Undergraduate, 2018 - 2019, 2014 - 2015
MAKİNE TASARIMININ TEMEL İLKELERİ -, Postgraduate, 2018 - 2019
TARIM MAKİNALARI UYGULAMALARI - III, Undergraduate, 2018 - 2019, 2014 - 2015
MAKİNE MALZEME BİLGİSİ, Undergraduate, 2018 - 2019, 2014 - 2015
STATİK VE MUKAVEMET, Undergraduate, 2018 - 2019
TARIM MÜHENDİSLİĞİ UYGULAMALARI - III, Undergraduate, 2018 - 2019, 2014 - 2015
TARIM MÜHENDİSLİĞİ UYGULAMALARI - I, Undergraduate, 2018 - 2019, 2014 - 2015
TARIM MAKİNELERİNDE BİLGİSAYAR DESTEKLİ TASARIM I , Doctorate, 2018 - 2019
TARIMSAL MEKANİZASYON, Undergraduate, 2014 - 2015
TARIM MAKİNALARINDA BİTİRME TEZİ, Undergraduate, 2014 - 2015
YÜK. LİS. DANIŞMANLIK, Postgraduate, 2014 - 2015
ÖLÇME VE DEĞERLENDİRME TEKNİĞİ, Undergraduate, 2014 - 2015
SEMINER I, Postgraduate, 2014 - 2015
TARIM MÜHENDİSLİĞİ UYGULAMALARI - IV, Undergraduate, 2014 - 2015
YÜK. LİS. UZMANLIK ALAN DERSİ, Postgraduate, 2014 - 2015
TARIM MAKİNALARI UYGULAMALARI - IV, Undergraduate, 2014 - 2015
STAJ, Undergraduate, 2014 - 2015
TARIM MAKİNALARINDA BİLGİSAYAR DESTEKLİ TASARIM II, Postgraduate, 2014 - 2015
TARIM MÜHENDİSLİĞİ UYGULAMALARI - II, Undergraduate, 2014 - 2015
TARIM MAKİNALARI UYGULAMALARI - II, Undergraduate, 2014 - 2015
MAKİNA TASARIMININ TEMEL İLKELERİ, Postgraduate, 2014 - 2015
TARIM MAKİNALARINDA BİLGİSAYAR DESTEKLİ MUKAVEMET ANALİZLERİ VE OPTİMİZASYON, Postgraduate, 2014 - 2015

Advising Theses

Çelik H. K., Hidrolik etkili toprak kazı makinesinin (skreyper) mukavemete dayalı bilgisayar destekli tasarımı üzerine bir araştırma, Postgraduate, G.ERAVCI(Student), 2022
Çelik H. K., Tarım makineleri tasarımı ve imalatında katmanlı imalat teknolojilerinin kullanılabilirliği ve adaptasyonu üzerine bir araştırma: plastik malzeme esaslı bazı bağlantı elemanlarında hızlı prototipleme örneği, Postgraduate, G.KUNT(Student), 2019

Patent

Çelik H. K., Face Shield / Product Desing, Industrial Design, CHAPTER A Human Needs, The Invention Registration Number: 2020 03321 , Standard Registration, 2020

Scientific Refereeing

Journal of Thermal Engineering, Other Indexed Journal, December 2018
Journal of Food Measurement and Characterization, SCI Journal, December 2018
Turkish Journal of Agriculture - Food Science and Technology , National Scientific Refreed Journal, November 2018
Heliyon, SCI Journal, October 2018
Journal of Mechanical Science and Technology, SCI Journal, September 2018
International Journal of Rapid Manufacturing , Other Indexed Journal, September 2018
International Journal of Rapid Manufacturing , Other Indexed Journal, September 2018
International Journal of Rapid Manufacturing , Other journals, September 2018
Food and Bioprocess Technology, SCI Journal, August 2018
Ciência Rural, SCI Journal, August 2018
Rapid Prototyping Journal, SCI Journal, July 2018
Food Research, Other Indexed Journal, July 2018
Journal of Engineering and Manufacturing Technology , Other Indexed Journal, July 2018
Journal of Mechanical Science and Technology, SCI Journal, July 2018
Journal of Food Measurement and Characterization, SCI Journal, July 2018
Journal of Mechanical Science and Technology, SCI Journal, May 2018
Advances in Mechanical Engineering, SCI Journal, May 2018
Project Supported by Higher Education Institutions, May 2018
Anadolu Tarım Bilimleri Dergisi , National Scientific Refreed Journal, April 2018
Journal of the Brazilian Society of Mechanical Sciences and Engineering, SCI Journal, April 2018
Selçuk Tarım ve Gıda Bilimleri Dergisi , National Scientific Refreed Journal, April 2018
Postharvest Biology and Technology, SCI Journal, April 2018
Rapid Prototyping Journal, SCI Journal, March 2018
Journal of Food Measurement and Characterization, SCI Journal, February 2018
Rapid Prototyping Journal, SCI Journal, February 2018
Project Supported by Higher Education Institutions, February 2018
Food and Bioprocess Technology, SCI Journal, January 2018
International Journal of Agricultural and Biological Engineering, SCI Journal, January 2018
Journal of Mechanical Science and Technology, SCI Journal, January 2018
Selçuk Tarım ve Gıda Bilimleri Dergisi , National Scientific Refreed Journal, December 2017
Strojniški vestnik - Journal of Mechanical Engineering, SCI Journal, November 2017
Transactions on Components, Packaging and Manufacturing Technology , SCI Journal, October 2017
Postharvest Biology and Technology, SCI Journal, October 2017
Spanish Journal of Agricultural Research, SCI Journal, October 2017
International Journal of Agricultural and Biological Engineering, SCI Journal, September 2017
Journal Food Science & Nutrition, SCI Journal, June 2017
Computers and Electronics in Agriculture, SCI Journal, April 2017
International Journal of Food Engineering, SCI Journal, March 2017
International Journal of Rapid Manufacturing , Other Indexed Journal, March 2017
Journal of Mechanical Science and Technology, SCI Journal, January 2017
Food and Bioprocess Technology, SCI Journal, January 2017
Strojniški vestnik - Journal of Mechanical Engineering, SCI Journal, January 2017
Strojniški vestnik - Journal of Mechanical Engineering, SCI Journal, November 2016

Journal of Food Measurement and Characterization, SCI Journal, October 2016
 Journal of Thermal Engineering, Other Indexed Journal, September 2016
 Mechanism and Machine Theory, SCI Journal, June 2016
 Journal of Food Measurement & Characterization, SCI Journal, May 2016
 International Journal of Rapid Manufacturing (IJRAPIDM), Other Indexed Journal, May 2016
 Strojniški vestnik - Journal of Mechanical Engineering, SCI Journal, May 2016
 for International Journal of Agricultural and Biological Engineering, SCI Journal, April 2016
 Strojinski vestnik - Journal of Mechanical Engineering , SCI Journal, March 2016
 Tarım Bilimleri Dergisi-Journal of Agricultural Sciences, SCI Journal, February 2016
 International Journal of Fruit Science , Other Indexed Journal, February 2016
 Journal of Mechanical Science and Technology, SCI Journal, January 2016
 Spanish Journal of Agricultural Research, SCI Journal, January 2016
 Biosystems Engineering, SCI Journal, January 2016
 29. Ulusal Tarımsal Mekanizasyon ve Enerji Kongresi (TARMEK-2015) Bildiriler Kitabı, Other Journals, June 2015
 29. Ulusal Tarımsal Mekanizasyon ve Enerji Kongresi (TARMEK-2015) Bildiriler Kitabı, Other Journals, June 2015
 Journal of Thermal Engineering, Other Indexed Journal, June 2015
 TUBITAK Project, May 2015
 Spanish Journal of Agricultural Research, SCI Journal, December 2014
 Journal of Thermal Engineering, Other Indexed Journal, September 2014
 Journal of Agricultural Sciences, SCI Journal, July 2014
 Spanish Journal of Agricultural Research, SCI Journal, October 2013
 Biosystems Engineering, SCI Journal, December 2012
 Critical Reviews in Food Science and Nutrition , SCI Journal, December 2012

Metrics

Publication: 90
 Citation (WoS): 224
 Citation (Scopus): 354
 H-Index (WoS): 10
 H-Index (Scopus): 10

Congress and Symposium Activities

2nd International Conference on Materials Science and Materials Chemistry, Invited Speaker, London, United Kingdom, 2019
 XIX. World Congress of the International Commission of Agriculture and Biosystems Engineering (CIGR), (April 22-25, 2018), Antalya – TURKEY, Attendee, Antalya, Turkey, 2018
 Rapid Design, Prototyping & Manufacturing (RDPM) Conference (27-28 April 2017), New Castle, UK., Attendee, United Kingdom, 2017
 29. Ulusal Tarımsal Mekanizasyon ve Enerji Kongresi (TARMEK-2015), Attendee, DİYARBAKIR, Turkey, 2015
 International Scientific XXXVI CIOSTA & CIGR Section V Conference, (May 26-28 May 2015) St Petersburg, The Russia Federation, Attendee, ST PETERSBURG, Russia, 2015
 International Conference of Agricultural Engineering (CIGR-AgEng 2012), Attendee, VALENCIA, Spain, 2012
 5th International Mechanical Engineering Forum, Attendee, PRAGUE, Czech Republic, 2012
 12th Rapid Design, Prototyping & Manufacturing Conference (RDPM 2011), Attendee, LANCASTER, United Kingdom, 2011
 US-TURKEY Workshop on Rapid Technologies, Attendee, İSTANBUL, Turkey, 2009
 37th International Symposium on Agricultural Engineering, Attendee, Opatija, Croatia, 2009

10th International Congress on Mechanization and Energy in Agriculture, Attendee, ANTALYA, Turkey, 2008

5th International Soil Conference ISTRO Czech Branch, Attendee, BRNO, Czech Republic, 2008

IV. Makine Tasarım ve imalat Teknolojileri Kongresi (IV.MATIT), Attendee, KONYA, Turkey, 2007

Research Areas

Agricultural Sciences, Agriculture, Farm Machinery, Agricultural Tools and Machines, Agricultural Machinery Design and Manufacturing, Mechanical Engineering, Construction and Manufacturing, Machine Design, Computer Aided Design and Manufacturing, Non-traditional manufacturing methods, Engineering and Technology