

RESUME-ACADEMIC

OGUZ COLAK

Associate Prof. Dr.
Ph.D. Mechanical Engineer
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ACADEMIC POSITIONS

Associate Prof. Dr. Anadolu University, Faculty of Engineering, Department of Mechanical Engineering, March 2016-ongoing

Associate Prof. Dr. . Süleyman Demirel University, Faculty of Technology, Department of Manufacturing Engineering, 2013-March 2016

Assitant Prof. Dr. Süleyman Demirel University, Faculty of Technology, Department of Manufacturing Engineering, 2011-2013

Assistant Prof. Dr. Süleyman Demirel University, Faculty of Technical Education, Department of Mechatronic Engineering, 2007-2011

Research Assitant, Süleyman Demirel University, CAD/CAM Research and Application Center, 2000-2006

INSTUTION POSITION:

Director of CAD/CAM Research and Application Center (2011-2016)

Associate. Prof. Dr. Oguz COLAK

Vice Head of Manufacturing Engineering Department in Suleyman Demirel University (2012-2016)

Assistant Prof. Dr. Süleyman Demirel University, Faculty of Technical Education, Department of Mechatronic Education, Head of Department 2007-2008

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EDUCATION:

- 08/2008-12/2008 **Post. Doc. Researcher,**
ParisTech ENSAM Labomap, SNECMA Aircraft Engine Company-France, Prototype Tooling Company-Germany 2008-2009
Research Topic: Analytical model of cutting force during thread milling Application to the thread milling of Inconel 718 super alloy and Ti-6Al-4V titanium alloys.
- 04/2005----09/2005 **Visiting Scholar,**
University of British Columbia, Manufacturing Automation Laboratory, BOEING Scholarship (Supervisor Prof. Dr. Yusuf Altintas CIRP Fellow) 2005, 15 April-30 Sept. 2005
Research Topic: Prediction of tool temperature and Machinability of AISI 4340 M (Military Alloys for BOEING 787) and Ti Alloy
- 09/2000— 06/2006 **Ph.D. in Mechanical Engineering.**
Research Assistant in CAD/CAM Research and Application Center at Suleyman Demirel University, TURKEY and University of British Columbia, Manufacturing Automation Laboratory, BOEING Scholarship
Doctoral Thesis: CNC Milling Cutting Parameter Optimization with Using Intelligent Methods in Electronic Environment
- 09/1997 — 07/2000 **Master of Science in Mechanical Engineering.**
Graduate student and Mechanical Engineering. Research Assistant in CAD/CAM Research and Application Center at Suleyman Demirel University. Isparta/TURKEY
Masters Thesis: Development of a Turbine Model Suitable for Variable Wind Speeds
- 1991-1996 **Bachelor of Science in Mechanical Engineering,**
1991-1993 Yıldız Technical University, Faculty of Engineering, Mechanical Engineering Department
1993-1996 Suleyman Demirel University, Faculty of Engineering and Art, Mechanical Engineering Department
Bachelor Thesis: Computer Aided Parametric Design of Sheet Metal Forming Tools,1996, Suleyman Demirel University,

PERSONAL DATA:

Born: May 12, 1971
Married: yes
Children: 2

MAIN RESEARCH INTEREST:

CAD/CAM and Manufacturing Technology
Industry 4.0

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- Additive Manufacturing
 - SLS, SLM Metal Printing
 - Composite Big Area Additive Manufacturing
- Aerospace Manufacturing
- Sustainable Manufacturing and Design
- Artificial Intelligence
 - Fuzzy Logic
 - Artificial Neural Network
 - Evolutionary and Genetic Programming
- Sensor Assisted Machining
- Machining Dynamics
 - Tool Wear
 - Acoustic Emission
 - Force and Vibration Measurement
 - Hard Material Machining
 - Aerospace Super Alloys Machining
- Intelligent Manufacturing Systems
- Mechatronic Design and Control
- Advanced Manufacturing Technology
 - Rapid Prototyping
- Reverse Engineering
 - Non-traditional Manufacturing Methods

MAIN RESEARCH

PROJECTS:

NATIONAL

PROJECTS

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- **Project Topic:** High Performance Thermoplastic Composite (Carbon Fiber v.s) Based Large Scale (FDM Based) Additive Manufacturing System Development, *Director of Project*
Supported By: Anadolu University, Research Project Founding 2016-2017 (Patent pending), **Project Budget:** 25000\$
 - **Project Topic:** Novel Monoblock Dental Implant Design and Manufacturing With Using DMLS Technology, *Supervisor of Project*
Supported By: TUBITAK (The Scientific and Technological Research Council of Turkey) 1501 Industrial Project (2016 Patented with Industry ERYIGIT Medical Company/ANKARA), **Project Budget:** 210000 \$
 - **Project Topic:** High Level Orthopedics-Brain and Gen. Surgery Oper. Table Proj., *Supervisor of Project*
Supported By: TUBITAK 1501 Industrial Project PrNo: 3140549 (2016 Patented with Industry ERYIGIT Medical /ANKARA), **Project Budget:** 320000 \$
 - **Project Topic:** Axial Type Innovative Heart Pump Manufacturing with SLS Additive Manufacturing Technology, *Project staff*

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Supported By: TUBITAK 1001 University Research Project (Collaboration With Bahcesehir University Biomedical Engineering Department) 2013-2015, **Project Budget:** 45000 \$

- **Project Topic:** Dental Implant Manufacturing with Additive Manufacturing Technology, *Director of Project*

Supported By: Suleyman Demirel University Research Project Foundation, MSc Student Research Project, 2014-2016, **Project Budget:** 8000 \$

- **Project Topic:** Machining Force Modelling of Carbon Fiber Machining, *Director of Project*

Supported By: Suleyman Demirel University Research Project Foundation, MSc Student Research Project 2015-2016, **Project Budget:** 8000\$

- **Project Topic:** Isparta Regional Inovative Technology Center, *Project Coordinator of CAD/CAM and Additive Manufacturing Excellence Center*

Supported By: Ministry of Turkish Industry and Science DPT, 2011-2015, **Project Budget:** 4.5Million \$

- **Project Topic:** Robotic 3D CNC Scanning System Desing for Reverse Engineering Applications, *Supervisor of Project*

Supported By: TUBITAK BİDEB BSc Student Project Support 2209, 2010-2011, **Project Budget:** 800 \$

- **Project Topic:** Design of a Robotic Grinding Machine,

Supported By: TUBITAK BİDEB BSc Student Project Support 2209, 2010-2011, **Project Budget:** 2400 \$

- **Project Topic:** Desing and manufacturing of Rapid Prototyping System for using direct metal laser sintering. *Project Staff*

Supported By: Ministry of Turkish Industry and Science DPT, 2003K121020/11, 2004-2008, **Project Budget:** 120000\$

- **Project Topic** :Intelligent optimisation of CNC Milling Parameters, *PhD Student Research Project Student*

Supported By: Suleyman Demirel University Research Project Department, Project No:03-D-72, 2000-2006, **Project Budget:** 8000 \$

- **Project Topic** :Manufacturing of industrial ceramic cutting tool, *Project Staff,*

Supported By: Suleyman Demirel University Research Project Department, **Project Budget:** 12000 \$

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- **Project Topic** :CIM (Computer Integrated Manufacturing) System Desing and Manufacturing for Educational Purpose, *Project Staff*
Supported By: Ministry of Turkish Industry and Science DPT, 2003K12141-3, 2002-2005, **Project Budget:** 55000 \$
- **Project Topic** :Web Based Distance Education for Engineering Education, *Project Staff*
Supported By: Suleyman Demirel University Independed Research Project Support, 2000-2003, **Project Budget:** 5000 \$
- **Project Topic** :Computer Controled Loom Machine Design, *Project Staff*
Supported By: Ministry of Turkish Industry and Science DPT, 2000K124430, 2000-2004, **Project Budget:** 80000\$
- **Project Topic** :Wind Turbine Design useful for variables wind speed, *MSc Student Project Staff*
Supported By: Suleyman Demirel University MSc Student Research Project Project, 1997, 2000, **Project Budget:** 2500 \$
- **Project Topic** :Robotic Gripper Design and Manufacturing for CIM System, *Project Staff*
Supported By: Suleyman Demirel University Independed Research Project Support, Project No: 2002/8, 2000-2002, **Project Budget:** 12000\$

INTERNATIONAL PROJECTS:

- **Project Topic** : Prediction of tool temperature and Machinability of AISI 4340M (Military Alloys) and Ti Alloy, Prof. Dr. Yusuf Altıntaş (Supervisor), **Oğuz ÇOLAK** (*visiting scholar*), Ahmet Yardımeden. Mehdi Namazi
Supported By Boeing Research Project with Manufacturing Automation Laboratory (University of British Colombia, CANADA),2005, 15 May-30 Sept. 2005, **Project Budget:** 35000 CAD
- **Project Topic** : Machining of Aerospace Superalloys with High Pressure Jet Assited Cooling/Lubrication Conditions, *Director of International Research Project*
Supported By: TUBITAK-ARRS 2508 International Project Support, With Collaboration Suleyman Demirel University and University of Ljubjana Slovenia, Project No: 108M380- 2009-2012, **Project Budget:** 78000 \$
- **Project Topic** : Analytical model of cutting force during thread milling Application to the thread milling of Inconel 718 super alloy and Ti-6Al-4V titanium alloy, Prof. Dr. Gerard P. (Supervisor), Prof..Dr. Fromentin G. (Co-Advisor), **Oguz COLAK** (*Visiting*

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Post Doc. Researcher),

Supported By: Egide Scholarsip ParisTech ENSAM Labomap, SNECMA Aircraft Engine Company-France, Prototype Tooling Company-Germany 2008-2009, **Project Budget:** 65000 €

- **Project Topic :** SusCryMac, E!4550- PRO-FACTORY EUREKA Project, To Develop A Sustainable & Innovative Cryogenic Machining System, *Project Coordinator of Turkish Industrial Partner*

Supported By: European Union EUREKA Project Support, Germany, Slovenia, Sweden, Turkey, 2010-2012 (TURKISH AEROSPACE INDUSTRY [www. Tei.com.tr](http://www.Tei.com.tr)), **Project Budget:** 850 000 €

- **Project Topic :** Industrial Robots and Their Using Technics, *Supervisor of Industrial Partners*

Supported By: European Union Leonardo Project, LDV 2010-1-TR1 LEO02-14528, Kuka Robotics, Ausburg Germany, TUTEV Ankara, 06 Mart-27 Mart 201, **Project Budget:** 55180 €

TEACHING EXPERIENCES:

2016 to present

Associate Prof. Dr., Anadolu University, Engineering Faculty, Mechanical Engineering Department;

Undergraduate Course:

- Computer Aided Engineering Design (Siemens NX PLM)
- Engineering Problem Solving
- Manufacturing Technology
- Introduction to Mechanical Engineering

Graduate Course:

- Machining Dynamics
- Additive Manufacturing Technology
- Design for Additive Manufacturing (*Expected 2018-2019 Fall*)

Anadolu University, Aerospace and Space Faculty, Airplane Engine Technology Department

Undergraduate Course:

- Engineering Mechanics,
- Aeroengine Manufacturing Technology

2010-2016 *Associate Prof. Dr., Suleyman Demirel University, Engineering Technology Faculty, Manufacturing Engineering Department;*

Undergraduate Course:

- Computer Aided Engineering Drawing
- Non-Traditional Manufacturing
- Manufacturing Technology
- Introduction to Manufacturing Engineering
- Computer Aided Production Planning
- Computer Aided Manufacturing

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- Introduction to Additive Manufacturing
- Artificial Intelligence for Manufacturing Science
- Reverse Engineering

Graduate Course:

- Machining Dynamics
- Metal Additive Manufacturing Technology
- Sustainable Manufacturing
- Product Lifecycle Manufacturing Systems
- Monitoring of Machining Operation

2006-2010 *Assistant Prof. Dr., Suleyman Demirel University, Engineering Technology Faculty, Mechatronic Education Department;*

Undergraduate Course:

- Computer Aided Engineering Drawing
- Non-Traditional Manufacturing
- Manufacturing Technology
- Mechatronics System Design
- Computer Aided Manufacturing
- Introduction to Additive Manufacturing
- Artificial Intelligence for Advanced Control
- Reverse Engineering
- Industrial Robotics

Graduate Course:

- Machining Dynamics
- Rapid Prototyping Technology
- Sustainable Manufacturing
- Product Lifecycle Management Systems
- Monitoring of Machining Operation

2001 to 2006 *Teaching Assistant, Suleyman Demirel University, Engineering Faculty, Mechanical Engineering Department;*

CAD/CAM, Fuzzy Logic, Artificial Neural Network, Intelligent Manufacturing

1999 to 2001 *Teaching Assistant, Suleyman Demirel University, Engineering Faculty, Mechanical Engineering Department;*

CAD/CAM, Static of Material, Dynamic, Automatic Control, Computer Language (C++, OS)

2002 to 2014 *Couse Lecturer of Industrial , CAD/CAM Programs Suleyman Demirel University, CAD/CAM Research and Application Center*

Course Programs;

CAD-Catia, AutoCAD, Solidworks, Unigraphics, Siemens NX PLM
CAM-SolidCam, ArtCam, Powermill, SurfCAM, MasterCam,

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2010 to 2015 *Lecturer, Turkish Ministry of Defense, (each year 2 days seminar for defense industry)*

- Fundamentals of Additive Manufacturing
- Laser Assisted Additive Manufacturing
- Sustainable Manufacturing and Design
- Machining Dynamics,
- Product Life Cycle Management

LEADERSHIPS,

HONORS,

AWARDS:

- May. 2015 TUBITAK, International Paper Encouragement Awards
- June 2014 TUBITAK, International Paper Encouragement Awards
- May, 2012 International Best International Phd Project application, Design of Low cost 3D Body Scanning System, Bursa Textile Exporter Businessmen Project Competition, Bursa Trade and Industry Chamfer,
- MAY 2012 Best Graduate Student Project, SDÜ ISPARTA MYO Project Exhibition
- Sept, 2008 EGIDE Postdoctoral Scholarship, (AIRBUS, SNECMA, ENSAM Supported Project)
- Feb. 2005 TUBITAK, International Paper Encouragement Awards
- Sept. 2005 TUBITAK, International Paper Encouragement Awards
- April 2005 BOEING Visiting Scholar Scholarship, (University of British Colombia, CANADA)

PROFESSIONAL

AFFILIATIONS:

- Member of Turkish Society of Mechanical Engineers. *1996-ongoing*
- Member of Turkish CAD/CAM Society *2004-ongoing*
- Advisor of ERYIGIT Biomedical Manufacturing Research Center, *2016-ongoing*
- Expert R&D Center Reviwer of Ministry of Turkish Science and Industry, *2008-ongoing*
- Manufacturing Industry Supervisor, Arinkom, Anadolu University Technology Transfer Office, *2016-ongoing*

INTERNATIONAL

JOURNAL

REVIWER:

- International Journal of Advanced Manufacturing Systems,
- International Journal of Machining Science and Technology
- Strojniški vestnik - Journal of Mechanical Engineering
- International Journal of Manufacturing Systems,
- Scientific Research and Essays
- International Journal of Systems Science

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- CIRP Prodeia

PUBLICATIONS:

Refereed SCI and International Journals

- **Çolak, Oğuz,** and Lokman Yünlü. (2018) "A Review On Augmented Reality And Virtual Reality In Engineering Education." *Journal of Educational & Instructional Studies in the World* 8, no. 1.
- **Çolak, O.,** & Yünlü, L. (2017, June). Defining and comparing vibration attributes of AlSi10 foam and CFRP coated AlSi10 foam materials. In *IOP Conference Series: Materials Science and Engineering* (Vol. 211, No. 1, p. 012008). IOP Publishing.
- Dayik, M., **Çolak, O.,** & Yüksel, H. (2016). Real-time virtual clothes try-on system/Sistem virtual de probare a îmbracamintei în timp real. *Industria Textila*, 67(6), 396.
- **Çolak, O.,** & Sunar, T. (2016). Cutting forces and 3D surface analysis of CFRP milling with PCD cutting tools. *Procedia CIRP*, 45, 75-78.
- Yüksel, H., Dayik, M., & **Çolak, O.** (2016). Designing and implementation of an expert system to be used to determine the body size. *The Online Journal of Science and Technology-January*, 6(1).
- **Çolak, O.** (2014). Optimization of machining performance in high-pressure assisted turning of Ti6Al4V alloy. *Strojniški vestnik-Journal of Mechanical Engineering*, 60(10), 675-681.
- Yünlü, L., **Çolak, O.,** & Kurbanoglu, C. (2014). Taguchi DOE analysis of surface integrity for high pressure jet assisted machining of Inconel 718. *Procedia CIRP*, 13, 333-338.
- Yasa, E., Pilatin, S., & Çolak, O. (2012). Overview of cryogenic cooling in machining of Ti alloys and a case study. *Journal of Production Engineering*, 15(2), 1-9.
- **ÇOLAK, O., YÜKSEL, H., SUNGURAY, C., & GÜMÜŞ, R.** (2013). Uzaktan kontrollü insan makine arayüz uygulamasıyla yeni bir eğitim platformu. *SDU Teknik Bilimler Dergisi*, 3(1).
- **YÜNLÜ, L., ÇOLAK, O., & KURBANOĞLU, C.** (2013). Yüksek Basıncılı Soğutma Sistemiyle İşlenmiş Titanyum Alaşımlardaki Kalıntı Gerilmelerin X-ışını Kırınımı Metodu ile İncelenmesi. *Makine Teknolojileri Elektronik Dergisi*, 10(4), 35-44.
- **Çolak, O.** (2012). Investigation on machining performance of inconel 718 in high pressure cooling conditions. *Strojniški vestnik-Journal of Mechanical Engineering*, 58(11), 683-690.

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- **Oğuz, C.** (2012). Tool-chip temperature simulation on high pressure jet assisted machining of Ti6Al-V4. *Scientific Research and Essays*, 7(8), 873-880.
- Taylan, F., **Çolak, O.**, & Kayacan, M. C. (2011). Investigation of TiN coated CBN and CBN cutting tool performance in hard milling application. *Strojniški vestnik-Journal of Mechanical Engineering*, 57(5), 417-424.
- Toprak, İ. B., Çağlar, M. F., **Çolak, O.**, Kiran, K., & Bayhan, M. (2012). Ti-6al-4v Süper Alaşımının Yüksek Basınçlı Soğutma Kullanılarak Frezelenmesinde YüzeY Pürüzlülüğünün Taguchi Yöntemi İle Optimizasyonu. *Sdu International Journal Of Technological Science*, 4(2).
- Çalışkan, H., Kurbanoğlu, C., & **Çolak, O.** (2010). Yüksek Güç Darbeli Magnetron Sıçratma İle Kaplama Üretimi Ve Kesici Takımlar Üzerinde Uygulamaları. *Makine Teknolojileri Elektronik Dergisi*, 7(4), 57-71.
- **Çolak, O.**, Kurbanoğlu, C., & Kayacan, M. C. (2007). Milling surface roughness prediction using evolutionary programming methods. *Materials & design*, 28(2), 657-666. (118 Times cited)
- Kayacan, M. C., & **Çolak, O.** (2004). A fuzzy approach for induction hardening parameters selection. *Materials & design*, 25(2), 155-161. (21 Times cited)
- Kayacan, M. C., Dayık, M., **Colak, O.**, & Kodaloglu, M. (2004). Velocity control of weft insertion on air jet looms by fuzzy logic. *Fibres & Textiles in Eastern Europe*, 12(3), 47. (20 Times cited)

Referred National Journals:

-
- **Çolak, O.**, Dombaycı, A., Üçgöl, İ., (2001) Wind Turbine Design Useful For Variable Wind Speed.,*Thermodynamic Journal.*, March
 - Kodaloglu, M., Dayık, M., **Çolak, O.**, Kaplan, S., Hava Jetli Dokumada İplik Tipinin Atkı Hızına Etkisinin Bulanık Mantıkla Tespiti.,*Tekstil Maraton Dergisi*, Mayıs / Haziran 2002
 - Dayık, M., Kodaloglu, M., Çalış, H., **Çolak, O.**, Kondisyonlama Şartlarının İplik Özellikleri Üzerine Etkisinin Bulanık Mantıkla Tespiti.,*Tekstil-Türkiye Dergisi*, Eylül Sayı: 5, 2002.
 - Kodaloglu, M., Dayık, M., **Çolak, O.**, Akarslan, F., Hava Jetli Dokumada Farklı Elyaf Tiplerinin Atkı Hızına Etkisi.,*Tekstil Teknik Dergisi*, Mart 2003.

Conference Presentations:

INTERNATIONAL

- L. Yünlü, **O. Çolak** and C. Kurbanoğlu., Taguchi DOE analysis of surface integrity for high pressure jet assisted machining of inconel 718., *The 2nd CIRP Conference on Surface Integrity (CSI)*, 28th-30th May 2014, Nottingham England

RESUME-ACADEMIC

- L. Yunlu, **O. Çolak**, C. Kurbanoğlu., chip Formation Analysis of High Pressure Jet Assisted Machining of Ti6Al4V., Proceedings of the 12th International Conference on Management of Innovative Technologies and 4th International Conference on Sustainable Life in Manufacturing, MIT&SLIM 2013., Fiesa,Slovenia., pp.173-178., 22th – 24th September 2013
- B. Yalcin, K. Kiran, E. Aykan, **O. Çolak.**, Experimental Study on Machinability of AISI H13 Tool Steel., *Proceedings of the 12th International Conference on Management of Innovative Technologies and 4th International Conference on Sustainable Life in Manufacturing, MIT&SLIM 2013., Fiesa,Slovenia., pp.179-184., 22th – 24th September 2013*
- Kadir KIRAN, **Oğuz ÇOLAK**, Optimization of Machining Performance in High Pressure Assisted Turning of Ti6Al4V Alloy, *Proceeding of the 3rd International Conference on Sustainable Life in Manufacturing, SLIM2012, İstanbul, Turkey., pp.41-46., 2-5 October 2012,*
- Kadir Kiran, **Oğuz Çolak**, Tony L. Schmitz, Dynamic Behaviors of Wireless Sensor Integrated Tool Holder in Milling, *Proceeding of the 3rd International Conference on Sustainable Life in Manufacturing, SLIM2012, İstanbul, Turkey., pp.103-108., 2-5 October 2012,*
- E. Yasa, S. Platin, **O. Çolak.**, Overview of Cryogenic Cooling in Machining of Ti alloys and a case study, , *Proceeding of the 3rd International Conference on Sustainable Life in Manufacturing, SLIM2012, İstanbul, Turkey., pp.11-20., 2-5 October 2012,*
- F. Taylan, M. C. Kayacan, **O. Çolak.**, Genetic Evolutionary Approach for Surface Roughness Prediction in Hard Milling., , *Proceeding of the 3rd International Conference on Sustainable Life in Manufacturing., SLIM2012, İstanbul, Turkey., pp.62-68., 2-5 October 2012,*
- O. Oral, **O. Çolak**, M.N. Bayhan., Wireless Tool Vibration Monitoring For Milling Using ZigBee Technology., *Proceeding of the 3rd International Conference on Sustainable Life in Manufacturing., SLIM2012, İstanbul, Turkey., pp.89-95., 2-5 October 2012,*
- H. Yüksel, **O. Çolak**, C. Sunguray, R. Gümüş., Design of a Low Cost 3D Body Scanning System., *Proceeding of the 3rd International Conference on Sustainable Life in Manufacturing., SLIM2012, İstanbul, Turkey., pp.146-150., 2-5 October 2012,*
- **O. Colak**, A. Cini, L. Yunlu, C. Kurbanoglu, Machining of Ti-6Al-4V Super alloy with Using High Pressure Jet Assisted Cooling, *44th. CIRP Conference on Manufacturing Systems, May 31 -June 3 2011, Madison, WI, USA*

RESUME-ACADEMIC

- H. Yuksel, E. Yilmaz, **O. Colak**, A review on innovative thinking's of Turkish engineering academics, *Proceeding of the 2nd International Conference of Sustainable Life in Manufacturing SLIM2011, 2011, Piran Slovenia*,
- O. Salman, E. Durak, K. Kiran, **O. Colak**, ANOVA and regression analysis of effects of vegetable oil additive on friction coefficient variation in journal bearing, *Proceeding of the 2nd International Conference of Sustainable Life in Manufacturing SLIM2011, 2011, Piran Slovenia*,
- **O. Colak**, O.Oral, N.Caglayan, H.O.Kazanc, Wireless tool vibration monitoring for milling, *Proceeding of the 2nd International Conference of Sustainable Life in Manufacturing SLIM2011, 2011, Piran Slovenia*,
- K. Kiran, D. Kramar, **O. Colak**, J. Kopac., Finite element modelling of high pressure jet assistance in turning, *Proceeding of the 2nd International Conference of Sustainable Life in Manufacturing SLIM2011, 2011, Piran Slovenia*,
- Hakan YÜKSEL, **Oğuz ÇOLAK**, 3D Complex Design with Using Fractal Geometry for Sustainable Design, *Proceeding of the 1st International Conference of Sustainable Life in Manufacturing SLIM2010, p:182-185, 2010, Eğirdir*,
- Ahmet Çini, **Oğuz ÇOLAK**, Lokman Yünlü, Cahit KURBANOĞLU, Modelling of Ortogonal Cutting Parameters in High Pressure Jet Assisted Machining of Inconel 718, *Proceeding of the 1st International Conference of Sustainable Life in Manufacturing SLIM2010, 2010, Eğirdir*
- **Oğuz ÇOLAK**, Kadir KIRAN, Tool-Chip Temperature Simulation on High Pressure Jet Assisted Machining of Titanium Superalloys, P:91-95, *Proceeding of the 1st International Conference of Sustainable Life in Manufacturing SLIM2010, 2010, Eğirdir*
- Orhan Alav, **Oğuz Colak**. Muammer Gocmen and Abdullah Kaplan., Online Virtual Tour for The Burdur (Turkey) City Museum., *Globalization, Digitization, Access, and Preservation of Cultural Heritage.,8-10 November 2006, Sofia*
- **COLAK, Oğuz.**, KURBANOGLU C., Hard Milling Temperature Simulation with Using Finite Difference Method., *12th International Conference on Machine Design*

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and Production, UMTIK06, Kusadası, Turkey, pp:845-856, Volume:2, Sep.08-12., 2006

- ILKAZ Sinan., ÇELİK Abdurrahman, KAYACAN M. Cengiz, **ÇOLAK Oğuz**, BEKÇİ Ufuk, HAMACI, Emre., Fuzzy Based Cutting Parameter Selection For Turning Machining, *Proceeding of Fifteenth Turkish Symposium on Artificial Intelligence and Neural Network TAINN2006*, pp:99-108, Mugla University Printing Office, 2006, ISBN: 975-7207-70-5
- M.Cengiz KAYACAN, Ozlem SALMAN, **Oğuz ÇOLAK**, Surface Roughness Prediction Model Of Powder Metal EDM Process With Using Evolution Computing.,35th. *International Conference On Computers And Industrial Engineering. 19-22 Haziran 2005, İstanbul*,
- M. Mahir Sofu, **Oğuz ÇOLAK**, M.Cengiz KAYACAN.,Wire EDM Parameter Prediction With Using ANFIS Model (Adaptive Neuro-Fuzzy Interface System., 2005 *CIRP 3rd International Conference On Reconfigurable Manufacturing.,USA,Mi, University Of Michigan., P.P.14, May-2005*
- Kayacan M.C., Çelik Ş.A., **Çolak O.** Tool Life Estimation Using Neural Network And Genetic Expression Programming For Finish Turnig Operations., *32nd. International Conference On Computers And Industrial Engineering., August 11-13 2003., Limerick, Ireland., P.164-170*
- Kayacan. M.C., **Çolak ,O.**, Determination Of Induction Hardeninig Parameters Using Fuzzy Logic., *2nd International Conference On Responsive Manufacturing Gaziantep., Turkey., P.496-501., 26-28 June 2002*

INTERNATIONAL CONFERENCE ORGANIZATION

- 2005 CIRP-Sponsored 3rd International Conference on Reconfigurable Manufacturing, Thursday, May 12, 2005,10 AM- Noon, Session chairs: Oguz Colak and Min Zhang
- 1st International Conference on Sustainable Life In Manufacturing (SLIM 2010), *Conference Director*, 24 - 25 June 2010, EĞİRDİR - TURKEY
- 2nd International Conference on Sustainable Life In Manufacturing (SLIM 2011), *Conference Co-Chair*, 27 - 29 September 2011, Piran-SLOVENIA
- 3rd International Conference on Sustainable Life In Manufacturing (SLIM 2012), *Conference Co-Chair*, 2 - 5 October 2012, TUYAP, ISTANBUL
- 12th International Conference on Management of Innovative Technologies & 4th International Conference on Sustainable Life in Manufacturing MIT&SLIM 2013.,pp:179-184., Fiesa, Slovenia., 22th – 24th September 2013 *Conference Co-Chair*

PROCEEDING BOOKS EDITORIALS

- Janez Kopac, **Oguz COLAK**, Proceeding of the 1st International Conference of Sustainable Life in Manufacturing SLIM2010, 2010, Eğirdir
- Michael Junker, Paul Levy, Janez Kopac, **Oguz Colak**, Proceedings of the 11th International Conference on Management of Innovative Technologies and 2nd International Conference on Sustainable Life in Manufacturing, MIT&SLIM 2011,

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ISBN 978-961-6536-57-8

- Janez Kopac, **Oguz COLAK**, Proceeding of the 3rd International Conference of Sustainable Life in Manufacturing SLIM2013, 2013, Fiesa, Slovenia
- Janez Kopac, **Oguz COLAK**, Proceeding of the 4th International Conference of Sustainable Life in Manufacturing SLIM2014, 2014, Istanbul

GRADUATE SUPERVISOR THESIS

PhD Thesis under Supervisor and Co-Supervisor

- Efecan Karaman, PhD Candidate, (**Supervisor**) 2014-ongoing, Large Scale Industrial Additive Manufacturing System Design and Testing Useful for High Performance Thermoplastic Composites, *Suleyman Demirel University, Manufacturing Engineering Department Graduate Student*
- Osman CEYLAN, PhD Candidate, (**Supervisor**) 2016-ongoing, Topological Design Optimisation and Manufacturing of Additive Manufactured High Performance Thermoplastic Composites Biomedical Implant, *Suleyman Demirel University, Manufacturing Engineering Department Graduate Student*
- Ahmet ÇİNİ (**Co-Supervisor**) (2015), Design, Manufacturing and Testing of Novel Dental Implant with using Direct Metal Laser Sintering , *Çorum University, Mechanical Engineering Department Graduate Student*
- Okan ORAL, PhD, (**Supervisor**) (2014) Wireless Intelligent Monitoring Of Machining Stability, *Suleyman Demirel University, Mechanical Engineering Department Graduate Student*
- İnyet Burcu TOPRAK, (**Co-Supervisor**) (2014) Online monitoring and Control of Complex Surface Machining with using Multiple Sensor Technology, *Suleyman Demirel University, Mechanical Engineering Department Graduate Student*

MSc Thesis under Supervisor and Co-Supervisor

- Serhat ÇİFTÇİ, (**Supervisor**) (2017-ongoing), Novel Design Industrial Screw System for Large Scale High Performance Thermoplastic Composite Additive Manufacturing System. *Anadolı University, Mechanical Engineering Department Graduate Student*
- Orhan GÜNGÖR, (**Co-Supervisor**) (2012), Artificial Intelligence Based Monitoring of Hard Turning Operation with Using Acoustic Emission Sensors, *Suleyman Demirel University, Electronic Engineering Department Graduate Student*
- Talha Sunar (**Supervisor**) (2016), Machining Force Modelling of CFRP Aerospace Composite, *Suleyman Demirel University, Manufacturing Engineering Department Graduate Student*
- Mehmet Akif ERSOY (**Supervisor**) (2016), Porosed Design Dental Implant Manufacturing with Using Direct Metal Laser Sintering, , *Suleyman Demirel University, Manufacturing Engineering Department Graduate Student*

RESUME-ACADEMIC

- Ahmet ÇİNI (**Co-Supervisor**) (2012), Machinig of Aerospace Superalloys with Using High Pressure Jet Assisted Cooling/Lubrication, *Afyon Kocatepe University, Mechanical Engineering Department Graduate Student*

COMPUTER SKILLS:

Programming: Matlab,

Control: LabView, Matlab

CAD/CAM PLM:Siemens NX, Catia, AutoCAD, Solidworks, SolidCAM, Powermill, Artcam

Additive Manufacturing Tools; Netfabb, Ntoplogy, EOS State, Materielise Magics, Repetier

Simulation;
ANYSY, NASTRAN, INVENTOR

CutPro 12.0 (Advanced Machining Simulation Program)

ShopPro* 1.0 (Simplified Expert Machining Simulation Program)

DEFORM Machining Simulations

Operation Systems;

Windows 10, Office 365

*Program developer (www.malinc.com)

OTHER INTERESTS

Reading, Swimming, hiking, cooking, travelling, outdoor sport activities

FOREIGN LANGUAGE

English

Level-reading writing and speaking excellent

French

Level-poor

RESUME-ACADEMIC

REFERENCES

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