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PERSONAL

Date of Birth	24.02.1939
Place of Birth	Ankara

EDUCATION

1961-1966	Imperial College of Science & Technology, University of London, Mechanical Engineering, Applied Mechanics, Ph.D.
1960-1961	Imperial College of Science & Technology, University of London, Mechanical Engineering, Applied Mechanics, M.S.
1956-1960	Middle East Technical University, Mechanical Engineering, B.S.

ACADEMIC POSITIONS

September/2008-Now	Professor, Department of Manufacturing & Mechanical Engineering, Atılım University, Turkey
August/1969-August/2008	Professor, Department of Mechanical Engineering Middle East Technical University, Turkey
August/1981-January/1984	Visiting Professor, Mechanical & Aerospace Engineering Department, Oklahoma State University, U.S.A.
September/1966-June/1969	Professor, Department of Mechanical Engineering Ottawa University, Canada

ADMINISTRATIVE DUTIES

September/2011-Now	Chairman of BOREN Center of Competence for Boron Coatings, ATILIM University
August/2013-April/2017	Chairman of Executive Board, Metal Forming Center of Excellence, ATILIM University
September/2008-August/2013	Chairman of Manufacturing Engineering Department, ATILIM University
July/1987- July 1992	Vice President, Middle East Technical University
June/1984- June 1987	Director of Graduate School of Natural and Applied Sciences, Middle East Technical University
January/1984-May/1992	Founding Director of CAD/CAM Robotic Center, Middle East Technical University
May/1977-August/1981	Founding Director of Mechanical Design and Manufacturing Research Center, Middle East Technical University
September/1973-April/1977	Chairman of Department of Mechanical Engineering, Middle East Technical University
September/1971-September/1973	Assistant Chairman of Department of Mechanical Engineering, Middle East Technical University

HONORS&AWARDS

1	AFS Scholarship to study in St. Louis Park High School, Minnesota, USA 1955-56
2	Rector Profesör Woolrich Award- Graduate having highest GPA in Middle East Technical University (METU) in 1960, Ankara, Turkey
3	CENTO Fellowship to carry out graduate study towards Ph.D. degree at Imperial College of Science & Technology, London, UK- 1960
4	High Academic Performance Awards-Middle East Technical University (METU), Ankara, Turkey for the years: 2000,2001,2002,2003,2004,2005
5	Award for the highest number of graduate thesis supervision in Manufacturing given by National Export Agency-2012
6	Award for the best Ph.D. thesis supervision of the year by METU-Parlar Foundation- 2013
7	Award for the high technology thesis on boron nitride coating given by National Export Agency-2013
8	VII. Necdet Eraslan project competition, Istanbul Mechanical Engineering Society- Finalist in 2015
9	Dr. Akin Çakmakçı Turkish Technology Foundation (TTGV) – Thesis Award- Finalist 2016
10	Antibacterial/Antifungal characteristics of Boron Nitride Coatings- Finalist- National Export Agency-2018
11	Osteoblastic characteristics of Boron Nitride Coatings- Finalist- National Export Agency-2018
12	High academic performance and publication awards-ATILIM University for the years: 2008-2025

RESEARCH INTERESTS

1	Metal Forming
2	Boron Nitride Coating
3	Computer Aided Design
4	Computer Aided Manufacturing
5	Computer Integrated Manufacturing
6	Robotics
7	Tribology

PROFESSIONAL SERVICE

1	Publisher, Journal of Mechanical Design and Production
2	Editorial and Referee contributions to International Journal of Mechatronics and Manufacturing Systems, JAMT, MATİM, PAJES, CIRP, Elsevier and other journals.

PUBLICATIONS- Journal Papers

102	Ramazan Hakkı Namlu; Bilgin Kaftanoglu, "Enhancing Sustainable Machining of Inconel 718 Using Multi-Walled Carbon Nanotubes and TiO ₂ Based Nanofluid Minimum Quantity Lubrication and TiO ₂ Based Nanofluid Minimum Quantity Lubrication", Procedia CIRP, PROCIR-D-24-00713, 2025
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101	Ramazan Hakkı Namlu;Korcan Küçüköztaş;Hakan Kalkan;Bilgin Kaftanoğlu," Ultrasonic Vibration-Assisted Machining Of Invar 36 Alloy Manufactured By Wire Arc Additive Manufacturing", CIRP Annals - Manufacturing Technology, Vol.74, 2025
100	Korcan Küçüköztaş,İlker Talay,Fatih Çalışkan,Mustafa El Sakka,Mohammed Nassar,Bilgin Kaftanoğlu," Design and Manufacturing of a Pin on Disk Tribometer", Makina Tasarım Ve İmalat Dergisi, Cilt 22, Sayı 1, 2024
99	N. Rake, B. Kaftanoğlu, A. Aydoğan, "Theoretical and Experimental Study: The Effect of The Target-to-Substrate Distance on The Structure and Characteristics of BN Coatings Produced by Magnetron Sputtering", Journal of Harbin Institute of Technology, 2023
98	Nurdan Ozmeric, Gaye Ozgur ,Cakal, Ceren Gokmenoglu,* , Ahmet Ozmeric,Bahar Fusun Oduncuoglu, Tugce Hacaloglu, Bilgin Kaftanoğlu," Histomorphometric and biomechanical evaluation of the osseointegration around micro- and nano-level boron-nitride coated titanium dental implants", Journal of Stomatology Oral and Maxillofacial Surgery, 2022, 123 (6) , pp.694-700
97	N.Rake, B. Kaftanoğlu, T.Hacaloğlu, A.Aydoğan, "Theoretical Modelling of Magnetron Sputtering of Boron Nitride Coating" MRS Communications, 13, 1, page 1-7, February 2023
96	B. Kaftanoğlu, " Bilimsel ve Teknolojik Gerçekliğe Aykırı Tutumlardan Vazgeçilmelidir", Mühendis-Makina Güncel, Ocak 2022-1, Sayfalar: 12-22
95	K. Küçüköztaş, F.Taşcı, H.Varlı, E.Gök, B.Kaftanoğlu, Ş. Baytaroğlu, "Havada Görevlendirilebilen Tekerleksiz Araç Tasarımı – Kişisel Hava Aracı", Makina Tasarım ve İmalat Dergisi, Cilt 20, Sayı 1, Sayfa: 36-48, 2022
94	Ceylan Ç. , Duran B. , Koçyiğit O. , Koçer C. , Doğan B. , Hacaloğlu T. , Şengönül C. M. , Kaftanoğlu B. "Havacılık Endüstrisinde Kullanılmak Üzere Alüminyum Malzemelerin Korozyon Direncinin Artırılması Amacıyla Yüzey Kaplaması Geliştirilmesi", Makina Tasarım ve İmalat Dergisi. 2021; 19(2): 82-87.
93	A.E.S. Özhan, T. Hacaloğlu, B. Kaftanoğlu, "Development of hard, anti-reflective coating for mid wave infrared region", Infrared Physics & Technology (2021), doi: https://doi.org/10.1016/j.infrared.2021.103910
92.	Ahmet Özmeriç, Oğuzhan Tanoğlu, Mert Ocak, Hakan Hamdi Çelik, Ayşegül Fırat, Fevziye Figen Kaymaz, Gökhan Koca, Mehmet Şenes, Kadir Bahadır Alemdaroğlu, Serkan İltar, Tuğçe Hacaloğlu, Bilgin Kaftanoğlu, "Intramedullary implants coated with cubic boron nitride enhance bone fracture healing in a rat model", JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY Volume: 62 Article Number: 126599 Published: DEC 2020
91.	Çağlar Ceylan, Bahtiyar Duran, Osman Furkan Koçyiğit, Cem Koçer, Berkay Doğan, Tuğçe Hacaloğlu, Dr. Cemal Merih Şengönül, Prof. Dr. Bilgin Kaftanoğlu, "Havacılık Sanayiinde Kullanılan Alüminyum Alaşımlarının Korozyona Karşı Direncini Artırmak Üzere Yüzey Kaplamalarının Araştırılması", Mühendis Makine Güncel, Ağustos 2020, Sayfalar:47-51
90.	Ozel, Tugrul; Altay, Ayca; Kaftanoğlu, Bilgin; et al., "Focus Variation Measurement and Prediction of Surface Texture Parameters Using Machine Learning in Laser Powder Bed Fusion Journal Of Manufacturing Science And Engineering-Transactions of The ASME Volume: 142 Issue: 1 Article Number: 011008 Published: JAN 2020
89	M. Yüksel, E.Kılınç, S. Kanberlioğlu, B.Güneri, B.Kaftanoğlu, Ş.Baytaroğlu, T. Hacaloğlu, "Taşınabilir Hafif Yüzey Taşlama Makinasının Tasarım ve İmalatı", Makina Tasarım ve İmalat Dergisi, Cilt:17 , Sayı:1 2019
88.	Tuğçe Hacaloğlu, Bilgin Kaftanoğlu, "Karbür Uçlar ve Titanyum Nitrür (TiN) Kaplamalı Karbür Uçlar ile Titanyum Alaşımı (Ti6Al4V) ve AISI 1045 Çeliği Arasında Sürtünme ve Aşınma Performansı Araştırması", Makina Tasarım ve İmalat Dergisi, Cilt 17, Sayı 2, Kasım 2019 /57-64

87.	Cakal, G. O.; Gokmenoglu, C.; Kaftanoglu, B., N. Özmeriç, "Surface Characterization and Corrosion Resistance of Boron Nitride Coated Titanium Dental Implants", Protection of Metals and Physical Chemistry of Surfaces, Volume: 55 Issue: 3 Pages: 608-614 Published: May 2019
86.	Kaushalendra Patel, Bilgin Kaftanoğlu, Tuğrul Özel1,"Micro textured cutting tool effects on cutting forces, volumetric wear and adhesion in dry turning of titanium alloy", Int. J. Mechatronics and Manufacturing Systems, Vol. 12, No: ¾, pp: 180-195
85.	Pepelnjak, T., Kayhan, E., Kaftanoglu, B., " Analysis of non-isothermal warm deep drawing of dual-phase DP600 steel"international Journal of Material Forming, Volume: 12, Issue: 2, Pages: 223-240 Published: March 2019
84.	Dizaji, S.A., Darendeliler, H., Kaftanoğlu, B. "A study on the constitutive equation effects in the fracture initiation of AA5450 sheets", (2019) Lecture Notes in Mechanical Engineering, pp. 78-83. DOI: 10.1007/978-981-13-0411-8_8
83.	Dizaji, Shahram Abbasnejad; Darendeliler, Haluk, Kaftanoglu, Bilgin, "Prediction of forming limit curve at fracture for sheet metal using new ductile fracture criterion", European Journal of Mechanics A-Solids, Volume: 69 Pages: 255-265 Published: MAY-JUN 2018
82.	Kayhan, Erdem; Kaftanoglu, Bilgin, "Experimental investigation of non-isothermal deep drawing of DP600 steel", International Journal of Advanced Manufacturing Technology, Volume: 99 Issue: 1-4 Special Issue: SI Pages: 695-706 Published: OCT 2018
81.	T. Pepelnjak & E. Kayhan & B. Kaftanoglu," Analysis of non-isothermal warm deep drawing of dual-phase DP600 steel", International Journal of Material Forming, THEMATIC ISSUE: ADVANCES IN MATERIAL FORMING SIMULATION, https://doi.org/10.1007/s12289-018-1400-0 , Accepted: 3 January 2018
80.	Dizaji, Shahram Abbasnejad; Darendeliler, Haluk; Kaftanoglu, Bilgin," A Study on the Constitutive Equation Effects in the Fracture Initiation of AA5450 Sheets", 15 July 2018, Proceedings of the 7th International Conference on Fracture Fatigue and Wear pp 78-83, Springer, Singapore. DOI https://doi.org/10.1007/978-981-13-0411-8_8
79.	K. Wegener, J. Mayr, M. Merklein, B. Behrens, T. Aoyama, M. Sulitka, J. Fleischer, P. Groche, B.Kaftanoglu, N. Jochum, H. Möhring," Fluid elements in machine tools", Keynote Paper, CIRP Annals-Manufacturing Technology, Vol: 66 (2017) S: 611-634 Kasım, 2017
78.	H.Kalkan, T. Hacaloglu, B. Kaftanoglu, "Experimental investigation of friction in deep drawing", The International Journal of Advanced Manufacturing Technology, Vol. 92, Issue 9-12, Sayfa: 3311-3318, DOI: 10.1007/s00170-017-0401-3, Ekim 2017
77.	B. Çetin, G. Durkaya, H.Kurtuldu, T.Hacaloğlu, M.Gürbüz, B. Kaftanoğlu," Wear resistance performance of boron nitride coatings on end milling cutters", Int. J. Mechatronics and Manufacturing Systems, Vol. 10, No. 3, 2017
76.	Kalkan, H., Hacaloğlu, T., Kaftanoğlu, B., " Sac Şekillendirme İşleminde Sürtünmenin İncelenmesi", Makina Tasarım Dergisi, Sayı: 2, sayfa: 88-94, Kasım 2016.
75.	Kayhan, E., Kaftanoğlu, B., " Yüksek mukavemet çeliklerinin derin çekme oranlarının geliştirilmesi için yapılan deneysel çalışmalar", Makina Tasarım Dergisi, Sayı: 2, sayfa: 77-87, Kasım 2016.
74.	Gökmenoğlu, C., Özmeriç, N., Çakal, G., Dökmetaş, N., Ergene, C., Kaftanoğlu, B., " Coating of titanium implants with boron nitride by RF-magnetron sputtering", Bulletin of Materials Science, September 2016, Volume 39, Issue 5, pp 1363-1370
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71.	Arisoy, YM,; Guo, CS., Kaftanoglu, B., Ozel, T., "Investigations on Microstructural Changes in Machining of Inconel 100 Alloy Using Face Turning Experiments and 3D Finite Element Simulations", International Journal Of Mechanical Sciences, Volume: 107, Pages: 80-92, DOI: 10.1016/j.ijmecsci.2016.01.009, Published: MAR 2016.
70.	Dizaji, SA, Darendeliler, H, Kaftanoglu, B., " Effect of hardening models on different ductile fracture criteria in sheet metal forming", International Journal of Material Forming, Volume: 9, Issue: 3, Pages: 261-267, DOI: 10.1007/s12289-014-1188-5, Published: JUL 2016
69.	B. Kaftanoğlu, N. Dökmetaş, A. E. S. Özhan, T. Hacaloğlu, M. Kılıçkan, On Boron Nitride Coating of Metals, "Nano Studies ", 10, s.21-28, (2014)
68.	S.A.Dizaji, H.Darendeliler, B. Kaftanoğlu, Effect of hardening models on different ductile fracture criteria in sheet metal forming, "International Journal of Material Forming ", (Springer), s., (2014)
67.	Y. Karpat, O. Bahtiyar, B. Deger, B. Kaftanoglu, Drilling of UD-CFRP Laminates with PCD Drills, "CIRP Annals ", 63, (Elsevier), s.81-84., (2014)
66.	B. Kaftanoğlu, N.Dökmetaş, An Environmentally Friendly Method of Cutting and Forming of Materials by c-BN Coated Tools, "International Journal of Sustainable Manufacturing (IJSM) ", 3, s.143-155, (2014)
65.	N.Dökmetaş, B.Kaftanoğlu, Boron Nitride (BN) Coating of Tools and Dies to Improve Performance in Manufacturing Applications, "International Journal of Mechatronics and Manufacturing Systems, IJMMS ", 7, (Inderscience), s., (2014)
64.	Kaftanoğlu, B., Dökmetaş, N., Performance of boron nitride coated tools and dies, "Advances in Production Engineering & Management ", 8, (Production Engineering Institute (PEI)), s.177-184, (2013)
63.	Çaglar, A.; Yamali, C.; Baker, Derek K, Kaftanoglu B., MEASUREMENT OF SOLAR RADIATION IN ANKARA, "JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY ", Volume: 33, s.135-142, (2013)
62.	Y.Karpat, N. Polat, B. Kaftanoğlu (2013). "Mechanistic force modeling for milling of carbon fiber reinforced polymers with double helix tools", CIRP Annals- Manufacturing Technology, presented at 63 rd CIRP General Assembly, 18-25 August, Copenhagen, Denmark.
61.	Solmus, Ismail; Rees, D. Andrew S.; Yamali, Cemil,Kaftanoglu, Bilgin, Numerical investigation of coupled heat and mass transfer inside the adsorbent bed of an adsorption cooling unit , "INTERNATIONAL JOURNAL OF REFRIGERATION ", Vol 35, s.652 -662
60.	Kaftanoglu B. TIAD - TT MAGAZIN / 46. Ocak - Şubat 2012 Sayısı / 10 Ocak 2012 / Kubik Bor Nitrür Kaplamalar Makalesi
59.	Kaftanoglu B.," Mühendisliğin Gelişmesi ve İmalat Mühendisliği", ", Cumhuriyet Gazetesi, 08-06-2012
58.	Kaftanoglu B.," Yenilikçilik (Innovation) ve Teknolojik Gelişme", Cumhuriyet Gazetesi, 06-01-2012
57.	Kaftanoglu B.," Bir Ülkenin Sanayi Gelişim Süreci", MOMENT-EXPO Dergisi, Haziran 2012, Sayı 49, pp: 24-25
56.	Kaftanoglu B., "Kübik Bor Nitrür Kaplamalar", TIAD-TT Magazin, Sayı 46, Ocak-Şubat 2012 pp: 46-48.
55.	Solmuş İ., Kaftanoğlu B., Yamalı C., Baker D., Experimental Investigation of a Natural Zeolite-Water Adsorption Cooling Unit, Applied Energy, Vol.88(2011), 4206-4213.

54.	Celik, G., Kaftanoğlu B., Karadogan C., Investigation of Influence Parameters on Forming Limit Diagrams of Aluminum Alloy-AA2024, Key Engineering Materials Vol. 473 (2011) pp 382-389 (2011) Trans Tech Publications, Switzerland
53.	Taylan, O, Baker, D., Kaftanoğlu, B. (2011) Normalized Thermodynamic Model for Intermittent Energy Systems and Application to Solar-Powered Adsorption Cooling Systems. International Journal of Thermodynamics, Vol. 14, No. 3, pp. 107-115. DOI: 10.5541/ijot.289.
52.	Özel T., Thepsonthi T., Ulutan D., Kaftanoğlu B., Experiments and Finite Element Simulations on Micro-Milling of Ti-6Al-4V Alloy with Uncoated and cBN coated Tools, CIRP-Annals-Manufacturing Technology (Elsevier), Vol: 60/1- 2011 pages: 85- 88.
51.	Çelik, G., Kaftanoğlu B., Karadogan C., "AA2024 Alüminyum Alaşımı için Şekillendirilebilir Sınır Diyagramlarını Etkileyen Parametrelerin İncelenmesi", Makina Tasarım ve İmalat Dergisi, Cilt 12, Sayı 1, Mayıs 2011, pp: 28-33
50.	Yalcin S., Kaftanoğlu B., "Derin Çekme İşlemlerinde Plastik Buruşma Analizi ve Modellemesi", Makina Tasarım ve İmalat Dergisi, Cilt 12, Sayı 1, Mayıs 2011, pp: 10-17
49.	Şanay B., Kaftanoğlu B., "Sac Metal Şekillendirmesinde Plastik Kararsızlık ve Şekillendirme Limitlerinin Belirlenmesi", Makina Tasarım ve İmalat Dergisi, Cilt 12, Sayı 1, Mayıs 2011, pp: 18-27
48.	Solmuş, İ.,Rees, D.A.S., Yamalı, C., Kaftanoğlu, B., Baker, D., "Numerical Investigation of Coupled Heat and Mass Transfer Inside the Adsorbent Bed of an Adsorption Cooling Unit", International Journal of Refrigeration, 2011
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45.	Cesur H., Kaftanoğlu B., Kalkanlı A., Oral B., Bor nitrür kaplamaların çelik alttaşlar üzerinde RF magnetron saçtırma yöntemiyle büyütülmesi, Makine Tasarım İmalat Dergisi, 2009
44.	T. Özel, M. Sima ¹ , A. K. Srivastava, B. Kaftanoğlu,"Investigations on the Effects of Multi-Layered Coated Inserts in Machining Ti-6Al-4V Alloy with Experiments and Finite Element Simulations", CIRP ANNALS-Manufacturing Technology 59 (2010) 77-82
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41.	Lazoglu, I., Ulutan, D., Alaca B. E., Engin S., Kaftanoğlu B.,"An Enhanced Analytical Model for Residual Stress Prediction in Machining", Annals of the CIRP, Vol: 57, 1/2008
40.	Özel T., Karpas Y., Srivastava A., Kaftanoğlu B., "Hard Turning with Variable Micro-Geometry PcBN Tools", Annals of the CIRP, Vol: 57, 1/2008
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37.	Bayraktar H., Kaftanoğlu B., "Endüstriyel Bir Robot için Stereo Görüş Sistemi Geliştirilmesi", Makina Tasarım ve İmalat Dergisi, Cilt 7, Sayı 2 Kasım 2005, sayfa: 57-67

36.	Mahir Cihan Cengiz, Prof. Dr.Bilgin Kaftanoğlu, Endüstriyel Bir Robot İçin İnsan-Makina Arayüz Programının Geliştirilmesi, Makina Tasarım ve İmalat Dergisi, Cilt:6 Sayı:2 Sayfa:99-107, 11/2004
35.	M.Dölen , B.Kaftanoglu , R.D.Lorenz, A Cutting Force Estimator for CNC Machining Centers, Annals of the CIRP, Vol : 53 Page: 313-316, 1/2004
34.	M.Dölen , B.Kaftanoglu , R.D.Lorenz, Cross Reference Models for Estimating Unknown Principal Force Components in End-Miling process, Annals of the CIRP, Vol : 52 Page : 81-84, 8/2003
33.	Ata Hançer Uysal, Bilgin Kaftanoğlu, Traktör Fren Sistemlerinin Fonksiyonel Analizi ve Geliştirilmesi, Makina Tasarım ve İmalat Dergisi, Cilt 4 Sayı: 4 Sayfa: 236-247, 11/2002
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31.	B.Kaftanoğlu, O.Eren, Altı Serbestlik Dereceli Bir Endüstriyel Robotun Tasarımı, İmalatı ve Çalıştırılması, Makina Tasarım ve İmalat Dergisi, 11/2001
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