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Biyografi

Aykut KENTLİ was born in Isparta, Turkey on September 5th 1975. He graduated from Istanbul Technical University - Faculty of Mechanical Engineering in 1997. He entered Marmara University as a graduate student in Mechanical Engineering with a specialization in Multiobjective Design Optimization. He received his MSc degree in 2002 and PhD degree in 2008 in Mechanical Engineering. Since 1997, he has been working as an academician at the Mechanical Engineering Department of Marmara University Faculty of Engineering. He commenced also on lecturing on the courses of Manufacturing Processes, Statics, Strength of Materials, Machine Design and Mechanical System Design. His research interests are design optimization and fuzzy logic and their applications to engineering systems.

Eğitim Bilgileri

Doktora, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Türkiye 2002 - 2008

Yüksek Lisans, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Türkiye 1998 - 2001

Lisans, İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, Türkiye 1992 - 1997

Yaptığı Tezler

Doktora, Comparison and determination of efficient techniques for fuzzy multiobjective design optimization of mechanical systems, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 2008

Yüksek Lisans, Multiobjective optimization of axially loaded non-prismatic columns, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2001

Araştırma Alanları

Konstrüksiyon ve İmalat, Mekanik

Akademik Unvanlar / Görevler

Prof. Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2019 - Devam Ediyor

Doç. Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2013 - 2019

Yrd. Doç. Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2008 - 2013

Yönetilen Tezler

KENTLİ A., Design of a novel vibration isolation for large diesel engines and electrical cabinets, Yüksek Lisans, T.Evci(Öğrenci), 2019

KENTLİ A., Selection of best eccentric presses considering production capacity and maintenance by using method, Yüksek Lisans, İ.Keskin(Öğrenci), 2018

KENTLİ A., Development of high performance taps for titanium alloys, Yüksek Lisans, C.AYÇIÇEK(Öğrenci), 2018

KENTLİ A., Selection of best eccentric presses considering production capacity and maintenance by using VIKOR method, Yüksek Lisans, İ.KESKİN(Öğrenci), 2018

KENTLİ A., Experimental investigation of influences of support plates on micro-drilling of CFRP laminates, Doktora, A.DOĞRUSADIK(Öğrenci), 2017

KENTLİ A., Tahribatsız muayenede iş sağlığı ve güvenliğinin değerlendirilmesi, Yüksek Lisans, H.CAN(Öğrenci), 2016

KENTLİ A., Optimization of space bar structures using hybrid model of artificial neural network and simulated annealing, Yüksek Lisans, S.ÖĞÜT(Öğrenci), 2014

KENTLİ A., Mechanical and thermal design and optimization of street type led armatures, Yüksek Lisans, M.ŞAHBAZ(Öğrenci), 2014

KENTLİ A., Prediction of surface roughness value for machining of aluminum 1050 material by using artificial neural network, Yüksek Lisans, K.Özbeyaz(Öğrenci), 2014

KENTLİ A., Prediction of surface roughness value for machining of Aluminum 1050 material by using artificial neural network, Yüksek Lisans, K.ÖZBEYAZ(Öğrenci), 2014

KENTLİ A., Production of zirconia powders by milling process, Yüksek Lisans, H.UĞUR(Öğrenci), 2013

KENTLİ A., Investigation on mechanical and electrical properties of carbon nano-tubes reinforced polycarbonate nano-composite material, Yüksek Lisans, S.DÖNMEZ(Öğrenci), 2012

KENTLİ A., Selection of machine stations and lines via analytic hierarchy process in an automotive industry, Yüksek Lisans, G.UÇAK(Öğrenci), 2012

KENTLİ A., An axiomatic design approach to mechanical car parking system design, Yüksek Lisans, M.DEMİRTAŞ(Öğrenci), 2012

KENTLİ A., An axiomatic design approach to mechanical car parking system design, Yüksek Lisans, M.Demirtaş(Öğrenci), 2012

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Microstructure development and mechanical behaviour of pure copper processed by the novel TWO-CAP procedure**
KAYA H., UÇAR M., Ş Ahbaz M., KENTLİ A., Özbeyaz K., ÖĞÜT S.
Materialpruefung/Materials Testing, cilt.65, sa.8, ss.1209-1221, 2023 (SCI-Expanded)
- II. **Mechanical property improvement of a AA6082 alloy by the TV-CAP process as a novel SPD method**
KAYA H., Özbeyaz K., KENTLİ A.
Materialpruefung/Materials Testing, cilt.65, sa.2, ss.244-257, 2023 (SCI-Expanded)
- III. **Novel SPD Method: Twisted Variable Channel Angular Extrusion**
ÖZBEYAZ K., KAYA H., KENTLİ A.
METALS AND MATERIALS INTERNATIONAL, cilt.28, sa.5, ss.1290-1305, 2022 (SCI-Expanded)
- IV. **Comparison of the Effect of Equal Channel Angular Pressing, Expansion Equal Channel Angular Pressing, and Hybrid Equal Channel Angular Pressing on Mechanical Properties of AZ31 Mg Alloy**
ÖĞÜT S., KAYA H., KENTLİ A.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, cilt.31, sa.4, ss.3341-3353, 2022 (SCI-Expanded)

- V. **Temperature variation depending on cutting conditions and its effects on thrust force in micro-drilling of CFRP laminates**
Dogrusadik A., KENTLİ A., Bakkal M., Çakan M.
INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY, cilt.65, sa.2, ss.152-168, 2022 (SCI-Expanded)
- VI. **Applying hybrid equal channel angular pressing (HECAP) to pure copper using optimized Exp.-ECAP die**
ÖĞÜT S., KAYA H., KENTLİ A., UÇAR M.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, cilt.116, ss.3859-3876, 2021 (SCI-Expanded)
- VII. **Optimization of tool design parameters for thread tapping process of Ti-6Al-4V**
Dogrusadik A., Aycicek C., KENTLİ A.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, cilt.235, sa.4, ss.870-878, 2021 (SCI-Expanded)
- VIII. **Performance of Novel TWO-CAP (Thin-Walled Open Channel Angular Pressing) Method on AA5083**
Şahbaz M., KENTLİ A., KAYA H.
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- IX. **A novel design on polymeric material recycling technology**
Tanriver K., DİLİBAL S., Sahin H., KENTLİ A.
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- X. **INVESTIGATION OF STRAIN INHOMOGENEITY IN HEXA-ECAP PROCESSED AA7075**
ÖĞÜT S., KAYA H., KENTLİ A., ÖZBEYAZ K., Sahbaz M., UÇAR M.
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- XI. **A new severe plastic deformation method: thin-walled open channel angular pressing (TWO-CAP)**
Şahbaz M., KAYA H., KENTLİ A.
International Journal of Advanced Manufacturing Technology, cilt.106, ss.1487-1496, 2020 (SCI-Expanded)
- XII. **Mechanical properties and electrical conductivity performance of ECAP processed AA2024 alloy**
ÖZBEYAZ K., Kaya H., KENTLİ A., Sahbaz M., ÖĞÜT S.
INDIAN JOURNAL OF CHEMICAL TECHNOLOGY, cilt.26, sa.3, ss.266-269, 2019 (SCI-Expanded)
- XIII. **Effect of support plates on the micro-drilled hole form quality in CFRP laminates**
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- XIV. **Experimental investigation of support plates' influences on tool wear in micro-drilling of CFRP laminates**
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- XV. **THERMAL ANALYSIS AND OPTIMIZATION OF HIGH POWER LED ARMATURE**
Sahbaz M., KENTLİ A., KÖTEN H.
THERMAL SCIENCE, cilt.23, sa.2, ss.637-646, 2019 (SCI-Expanded)
- XVI. **Comparative assessment of support plates' influences on delamination damage in micro-drilling of CFRP laminates**
Dogrusadik A., Kentli A.
COMPOSITE STRUCTURES, cilt.173, ss.156-167, 2017 (SCI-Expanded)
- XVII. **Influence of injection molding parameters on electrical resistivity of carbon nanotube reinforced polycarbonate**
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- XVIII. **Application of Different Algorithms to Optimal Design of Canal Sections**
Kentli A., Mercan O.
JOURNAL OF APPLIED RESEARCH AND TECHNOLOGY, cilt.12, sa.4, ss.762-768, 2014 (SCI-Expanded)
- XIX. **RADIAL BASIS AND LVQ NEURAL NETWORK ALGORITHM FOR REAL TIME FAULT DIAGNOSIS OF**

BOTTLE FILLING PLANT

Demetgul M., Yazicioglu O., KENTLİ A.

TEHNICKI VJESNIK-TECHNICAL GAZETTE, cilt.21, sa.4, ss.689-695, 2014 (SCI-Expanded)

- XX. **THE PREDICTION OF SURFACE TEMPERATURE IN DRILLING OF Ti6Al4V**
Isik B., Kentli A.
ARCHIVES OF METALLURGY AND MATERIALS, cilt.59, sa.2, ss.467-471, 2014 (SCI-Expanded)
- XXI. **OPTIMISATION OF HYDROSTATIC THRUST BEARING USING SEQUENTIAL QUADRATIC PROGRAMMING**
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OXIDATION COMMUNICATIONS, cilt.37, sa.4, ss.1144-1152, 2014 (SCI-Expanded)
- XXII. **MINIMIZING MACHINE CHANGEOVER TIME IN PRODUCT LINE IN AN APPAREL INDUSTRY**
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TEKSTİL VE KONFEKSİYON, cilt.23, sa.2, ss.159-167, 2013 (SCI-Expanded)
- XXIII. **Robust Multiobjective Optimization of Cutting Parameters in Face Milling**
Aykut S., KENTLİ A., GÜLMEZ S., Yazicioglu O.
ACTA POLYTECHNICA HUNGARICA, cilt.9, sa.4, ss.85-100, 2012 (SCI-Expanded)
- XXIV. **Improving Sound Absorption Property of Polyurethane Foams by Adding Tea-Leaf Fibers**
EKİCİ B., KENTLİ A., KÜÇÜK H.
ARCHIVES OF ACOUSTICS, cilt.37, sa.4, ss.515-520, 2012 (SCI-Expanded)
- XXV. **Experimental Investigation and Prediction of Mechanical Properties of Friction Stir Welded Aluminium Metal Matrix Composite Plates**
BOZKURT Y., KENTLİ A., Uzun H., SALMAN S.
MATERIALS SCIENCE-MEDZIAGOTYRA, cilt.18, sa.4, ss.336-340, 2012 (SCI-Expanded)
- XXVI. **Survey on Design of Truss Structures by Using Fuzzy Optimization Methods**
KENTLİ A.
FUZZY LOGIC - CONTROLS, CONCEPTS, THEORIES AND APPLICATIONS, ss.393-416, 2012 (SCI-Expanded)
- XXVII. **Experimental study on peck drilling of GFRP and prediction of drilling-induced damage using ANN**
KENTLİ A.
Scientific Research and Essays, cilt.6, sa.7, ss.1546-1554, 2011 (SCI-Expanded)
- XXVIII. **Studies on fuzzy logic control of electrical machines in turkish universities: An overview**
KENTLİ A.
Mathematical and Computational Applications, cilt.16, sa.1, ss.236-247, 2011 (SCI-Expanded)
- XXIX. **Optimization of WEDM Process Parameters of gamma-TiAl Alloy Using SVM Method**
Donmez S., KENTLİ A.
TECHNICS TECHNOLOGIES EDUCATION MANAGEMENT-TTEM, cilt.6, sa.4, ss.1225-1234, 2011 (SCI-Expanded)
- XXX. **A satisfaction function and distance measure based multi-criteria robot selection procedure**
KENTLİ A., Kar A. K.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, cilt.49, sa.19, ss.5821-5832, 2011 (SCI-Expanded)
- XXXI. **A mathematical model for condensation of bubbles injected through an orifice into subcooled water**
BUĞUTEKİN A., YILMAZ M., KENTLİ A., ISIKAN M. O.
Energy Education Science And Technology Part A-Energy Science And Research, cilt.24, ss.151-171, 2010 (SCI-Expanded)
- XXXII. **Multicriteria optimization of cutting parameters in turning of UD-GFRP materials considering sensitivity**
Isik B., Kentli A.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, cilt.44, ss.1144-1153, 2009 (SCI-Expanded)
- XXXIII. **Experimental observation of tool wear, cutting forces and chip morphology in face milling of cobalt based super-alloy with physical vapour deposition coated and uncoated tool**
Aykut S., Bagci E., Kentli A., Yazicioglu O.
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Analytical and Numerical Analysis Comparison of Equal Channel Angular Pressing for Al5083 Alloy**
ŞAHBAZ M., KAYA H., KENTLİ A., UÇAR M., ÖĞÜT S., ÖZBEYAZ K.
Advanced Science, Engineering and Medicine, cilt.11, sa.11, ss.1100-1103, 2019 (Hakemli Dergi)
- II. **Experimental Comparison of Al5083 Alloy Subjected to Annealing and Equal-Channel Angular Pressing**
ŞAHBAZ M., KAYA H., KENTLİ A., UÇAR M., ÖĞÜT S., ÖZBEYAZ K.
International Journal of Computational and Experimental Science, cilt.5, sa.1, ss.52-55, 2019 (Hakemli Dergi)
- III. **OPTIMIZATION OF SURFACE ROUGHNESS VALUES FOR EDM PROCESS USING A HYBRID METHOD OF ANFIS AND GA**
KENTLİ A.
International Journal of Scientific Research Engineering Technology, cilt.7, sa.12, ss.869-872, 2018 (Hakemli Dergi)
- IV. **SELECTING OF BEST FORGING PRESS LINES CONSIDERING POSTURES BASED ON PRODUCTION PROCESS AND MAINTENANCE BY USING VIKOR METHOD**
KENTLİ A., Keskin İ., Company K. F. S.
International Journal of Scientific Research Engineering Technology, cilt.6, sa.11, ss.1095-1100, 2017 (Hakemli Dergi)
- V. **Numerically Investigating Effects of Channel Angle Friction and Ram Velocity on Strain Homogeneity in ECAP**
ÖĞÜT S., KENTLİ A.
International Journal of Scientific Research Engineering & Technology, cilt.5, sa.12, ss.594-597, 2016 (Hakemli Dergi)
- VI. **Comparison of Workpiece Geometry and Its Effects on ECAP Process By FEA**
ŞAHBAZ M., KENTLİ A.
International Journal of Scientific Research Engineering & Technology, cilt.5, sa.12, ss.604-608, 2016 (Hakemli Dergi)
- VII. **Cadde Tipi Led Armatürün Isı Yayıncısında SEY ve YSA Modeli Kullanılarak Sıcaklık Tahmini Yapılması**
ŞAHBAZ M., ÖĞÜT S., KENTLİ A.
Marmara Fen Bilimleri Dergisi, cilt.28, sa.2, ss.59-65, 2016 (Hakemli Dergi)
- VIII. **Otomobil Endüstrisinde Kullanılan Baskı Makinaları Seçim Kriterlerinin ve Önem Derecelerinin Belirlenmesi**
Kentli A., Uçak G.
Marmara Fen Bilimleri Dergisi, cilt.25, sa.2, ss.65-74, 2013 (Hakemli Dergi)
- IX. **Studies on fuzzy decision making in Turkish Universities An overview**
KENTLİ A.
Marmara Üniversitesi Fen Bilimleri Dergisi, cilt.23, sa.4, ss.140-159, 2011 (Hakemli Dergi)
- X. **Deterministic Approach to Path Optimization Problem**
KENTLİ A., ALKAYA A. F.
Ozean Journal of Applied Sciences, cilt.2, sa.2, ss.149-157, 2009 (Hakemli Dergi)

Kitap & Kitap Bölümleri

- I. **Topology Optimization Applications on Engineering Structures**
KENTLİ A.
Truss and Frames: Recent Advances and New Perspectives, Kentli, Aykut, Editör, INTECH, ss.1-23, 2020

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Hekza-Ekap prosesine tabi tutulmuş saf bakırda gerinim dağılımının incelenmesi**
ÖĞÜT S., KAYA H., KENTLİ A.
IMASCON, Uluslararası Marmara, Fen ve Sosyal Bilimler Kongresi, Kocaeli, Türkiye, 26 - 28 Nisan 2019
- II. **Sonlu elemanlar yöntemi ile Ekap işleminde sürtünme katsayısı, sıcaklık ve mesh sayısının etkilerinin incelenmesi ve farklı malzemeler ile kıyaslanması**
ÖZBEYAZ K., KENTLİ A., KAYA H.
IMASCON, Uluslararası Marmara, Fen ve Sosyal Bilimler Kongresi, Kocaeli, Türkiye, 26 - 28 Nisan 2019
- III. **Ekap ile işlenmiş AA6082 Alaşımının Sertlik, Aşınma Direnci ve Mikroyapısının İncelenmesi**
ÖZBEYAZ K., KAYA H., KENTLİ A.
IMASCON, Uluslararası Marmara, Fen ve Sosyal Bilimler Kongresi, Kocaeli, Türkiye, 26 - 28 Nisan 2019
- IV. **Investigating the Effects of the Corner Angle on the Equal Channel Angular Pressing Process**
ŞAHBAZ M., KENTLİ A., KAYA H.
3rd International Conference on Advances in Mechanical Engineering: ICAME 2017, İstanbul, Türkiye, 19 - 21 Aralık 2017, cilt.1, ss.826-832
- V. **Mechanical Properties and Electrical Conductivity Performance of ECAP Processed Al2024 Alloy**
ÖZBEYAZ K., KAYA H., KENTLİ A., ŞAHBAZ M., ÖĞÜT S.
4th International Conference on Computational and Experimental Science and Engineering (ICCESEN 2017), Antalya, Türkiye, 4 - 08 Ekim 2017, ss.594
- VI. **An Experimental Comparison of Annealed ECAPed Al5083 Alloy**
ŞAHBAZ M., KAYA H., KENTLİ A., UÇAR M., ÖĞÜT S., ÖZBEYAZ K.
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- VII. **Studies on Twist Equal Channel Angular Process in Recent Years**
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- VIII. **Investigation on Effects of ECAE on Microstructure, Hardness and Electrical Conductivity of Al 7075 Alloy”, Serkan Ögüt, Hasan Kaya, Aykut Kentli, Kerim Özbeyaz, Mehmet Şahbaz,**
ÖĞÜT S., KAYA H., KENTLİ A., ÖZBEYAZ K., ŞAHBAZ M.
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- IX. **Investigation on Effects of ECAE on Microstructure, Hardness and Electrical Conductivity of Al 7075 Alloy**
ÖĞÜT S., KAYA H., KENTLİ A., ÖZBEYAZ K., ŞAHBAZ M.
4th International Conference on Computational and Experimental Science and Engineering, Antalya, Türkiye, 4 - 08 Ekim 2017, ss.602
- X. **Numerically Investigation of Hardness Distribution in ECAE Processed Al 7075 Alloy**
ÖĞÜT S., KAYA H., KENTLİ A., ÖZBEYAZ K., ŞAHBAZ M.
4th International Conference on Computational and Experimental Science and Engineering (ICCESEN 2017), Antalya, Türkiye, 4 - 08 Ekim 2017
- XI. **Analytical and Numerical Analysis Comparison of ECAP for Al5083 Alloy**
ŞAHBAZ M., KAYA H., KENTLİ A., UÇAR M., ÖĞÜT S., ÖZBEYAZ K.
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- XII. **EFFECTS of MESH, FRICTION COEFFICIENT and TEMPERATURE on FINITE ELEMENT ANALYSIS of ECAP**
ÖZBEYAZ K., KAYA H., KENTLİ A.
2. ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, Kocaeli, Türkiye, 12 - 13 Mayıs 2017, ss.791-792
- XIII. **Optimization of EDM Process Using GA ANN and Data Fusion**

- ÖĞÜT S., KENTLİ A.
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- XIV. **Using a Hybrid Optimization System of SA ANN and AHP to Find Optimum Parameters on Drilling Process For CFRP**
ÖĞÜT S., KENTLİ A.
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- XV. **Finding the Best Passenger Transport by Using MCDM Techniques**
ÖZBEYAZ K., KENTLİ A.
1st International Conference on Engineering Technology and Applied Sciences, 21 - 22 Nisan 2016, ss.1679-1682
- XVI. **An Application of Analytical Hierarch Process on Numerical Analysis of Heat Transfer**
ŞAHBAZ M., KENTLİ A.
2ND INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 10 - 13 Mayıs 2016, cilt.1, ss.331-334
- XVII. **Material Selection for Insulation of Buildings by Multi Criteria Decision Making Methods**
ŞAHBAZ M., KENTLİ A., Eren A., Bilik C.
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- XVIII. **LATHE SELECTION USING ANALYTIC HIERARCHY PROCESS AND INFORMATION AXIOM**
KENTLİ A., Akbas S.
CBU International Conference on Innovations in Science and Education (CBUIC), Prague, Çek Cumhuriyeti, 23 - 25 Mart 2016, ss.852-856
- XIX. **EXPERIMENTAL AND ANALYTICAL INVESTIGATION ON EFFECT OF STATOR WINDING TYPE TO EQUIVALENT CIRCUIT PARAMETERS OF INDUCTION MOTORS**
Kentli F., KENTLİ A.
CBU International Conference on Innovations in Science and Education (CBUIC), Prague, Çek Cumhuriyeti, 23 - 25 Mart 2016, ss.820-825
- XX. **DETERMINING THE FACTORS AFFECTING THE STUDYING STRATEGY OF ENGINEERING STUDENTS USING TEXTBOOK**
Kentli F., KENTLİ A.
7th International Conference of Education, Research and Innovation (ICERI), Sevilla, İspanya, 17 - 19 Kasım 2014, ss.1321-1324
- XXI. **CURRICULUM COMPARISON OF ENGINEERING FACULTY, TECHNOLOGY FACULTY AND TECHNICAL EDUCATION FACULTY: CASE STUDY OF MECHANICAL AND ELECTRICAL ENGINEERING**
Kentli F., KENTLİ A., Kentli F. D.
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- XXII. **Modelling and thermal analysis of high power LED armature Türkiye**
ŞAHBAZ M., KENTLİ A., YILMAZ M., KÖTEN H., YÜKSELENTÜRK Y.
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- XXIII. **Using Novel Methodology in Finding Optimum Truss Structure**
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- XXIV. **Using a Novel Methodology in Finding the Optimum Truss Structure**
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- XXV. **PREDICTION OF SURFACE ROUGHNESS VALUES FOR MILLING OF AL1050**
ÖZBEYAZ K., KENTLİ A.
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- XXVI. **AHP Applications on Machine Selection Problems**
KENTLİ A., Uçak G.

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XXVII. Machine Tool Selection Using AHP and Information Axiom

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XXVIII. Design and shape optimization of a Turkish Tirkes bow

KENTLİ A., DEMİR S., EKİCİ B.

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XXIX. Analysis of influences of test items and learning styles on performance of engineering studentson the exam

KENTLİ A., KENTLİ F.

5th International Technology, Education and Development Conference, 7 - 09 Mart 2011, ss.352-358

XXX. Comparison of Techniques for Fuzzy Multi Objective Design Optimization

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Metrikler

Yayın: 78

Atıf (WoS): 316

Atıf (Scopus): 358

H-İndeks (WoS): 9

H-İndeks (Scopus): 9

Akademi Dışı Deneyim

Michigan Üniversitesi