

# ÖZLEM BOYDAK

## LECT.



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### Learning Knowledge

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Doctorate  
2012 - Continues

Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey

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Post Graduate  
2004 - 2007

Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey

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Undergraduate Double Major  
2001 - 2004

Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği,  
Turkey

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Under Graduate  
1999 - 2003

Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of  
Mechanical Engineering, Turkey

### Foreign Languages

English, C1 Advanced

German, B1 Intermediate

### Certificates, Courses and Trainings

Occupational Health and Safety, İŞ GÜVENLİĞİ VE İŞÇİ SAĞLIĞI, ULAŞIM A.Ş., 2011

Quality Management, KALİTE SİSTEMLERİ, GEDİK HOLDİNG, 2010

Other, NOISE VIBRATION HARSHNESS, FORD, 2008

Other, R202 VEHICLE EVALUATION, FORD, 2008

Logistics, GLOBAL 8D PROBLEM SOLVING, FORD OTOSAN, 2008

Quality Management, FAILURE MODES AND EFFECTS ANALYSIS, FORD OTOSAN, 2007

### Dissertations

Post Graduate, AN EXPERIMENTAL AND NUMERICAL EVALUATION OF HIGH PRESSURE DIE CAST ALUMINUM ALLOY,  
Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2007

### Academic Titles / Tasks

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### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- 1. Recent Advances in Specific Applications of Communication, Computer Vision, and Networks**  
Boydak Ö., Li X., Alvarez E.  
Journal Of Internet Technology, vol.21, no.3, pp.861-862, 2020 (Journal Indexed in SCI Expanded)
- 2. Advanced Algorithms and Techniques for Certain Engineering Applications Such as Satellite Communication, Anisotropic and Complex Networks, Machinery Systems and Computing Platforms**  
Boydak Ö., Zhu H.  
Journal Of Internet Technology, no.6, pp.1869-1870, 2019 (Journal Indexed in SCI Expanded)
- 3. Advanced Algorithms and Techniques for Miscellaneous Engineering Applications Such As Discrete Networks, Machinery And Computing Platforms**  
Boydak O., Bouhmala N.  
JOURNAL OF INTERNET TECHNOLOGY, vol.19, pp.905-907, 2018 (Journal Indexed in SCI)
- 4. THERMODYNAMIC INVESTIGATION OF ORGANIC RANKINE CYCLE ENERGY RECOVERY SYSTEM AND RECENT STUDIES**  
BOYDAK Ö., Ekmekci I., YILMAZ M., KÖTEN H.  
THERMAL SCIENCE, vol.22, pp.2679-2690, 2018 (Journal Indexed in SCI)
- 5. A numerical and an experimental investigation of a high-pressure die-casting aluminum alloy**  
Boydak Ö., SAVAŞ M., EKİCİ B.  
International Journal of Metalcasting, vol.10, pp.56-69, 2016 (Journal Indexed in SCI)

### Articles Published in Other Journals

- 1. An Energy Investigation of An Organic Rankine Cycle Utilizing Three Organic Fluids**  
Boydak Ö.  
Hittite Journal of Science Engineering, vol.7, pp.41-44, 2020 (Refereed Journals of Other Institutions)
- 2. Investigation of three organic fluids effects on exergy analysis of a combined cycle: Organic rankine cycle / vapor compression refrigeration**  
TOUAIBI R., Köten H., FEIDT M., Boydak O.  
Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, vol.52, pp.232-245, 2018 (Refereed Journals of Other Institutions)

### Refereed Congress / Symposium Publications in Proceedings

- 1. INFLUENCE OF THE CHOICE OF ORGANIC FLUID ON THE PERFORMANCES OF AN ORGANIC RANKINE CYCLE**  
Boydak Ö.  
ICAME 2019, İstanbul, Turkey, 17 - 19 December 2019, pp.80-87
- 2. An Energy Investigation Of An Organic Rankine Cycle Utilizing Three Organic Fluids**  
Boydak Ö.  
2. International Conference on Life and Engineering Sciences (ICOLES 2019), İstanbul, Turkey, 27 - 29 June 2019, pp.121-122
- 3. AN INVESTIGATION OF AN ENVIRONMENT FRIENDLY ORGANIC RANKINE CYCLE (ORC) ENERGY**

## **RECOVERY SYSTEM BASED ON AN ECO-FRIENDLY WORKING FLUID**

BOYDAK Ö.

VI. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018, pp.861-866

### **4. A COMPARATIVE CFD ANALYSIS OF NACA0012 AND NACA4412 AIRFOIL**

BOYDAK Ö.

6TH EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS (ECRES 18), İstanbul, Turkey, 25 June 2018, pp.848-860

### **5. SIGNIFICANCE OF 3D DIMENSIONAL PRINTING AND MODELING IN THE SCOPE OF DEVELOPMENTS OF COMPONENT MANUFACTURING IN AUTOMOTIVE INDUSTRY**

BOYDAK Ö.

International Conference on Progresses in Automotive Technologies 2018 (ICPAT'18), İstanbul, Turkey, 10 May 2018, pp.60-61

### **6. ORGANIC RANKINE CYCLE (ORC) SYSTEM DESIGN IN AUTOMOTIVE INDUSTRY APPLICATIONS**

BOYDAK Ö.

International Conference on Progresses in Automotive Technologies 2018 (ICPAT'18), İstanbul, Turkey, 10 May 2018, pp.70-76

### **7. ENVIRONMENT FRIENDLY TECHNOLOGY: ORGANIC RANKINE CYCLE (ORC) ENERGY RECOVERY SYSTEM**

BOYDAK Ö.

II. INTERNATIONAL CONFERENCE ON ECOLOGY, ECOSYSTEMS AND CLIMATE CHANGE (ECOLOGY '18), İstanbul, Turkey, 23 February 2018, pp.40-47

### **8. 'Engineering Analysis Of An Organic Rankine Cycle (ORC) System Design'**

BOYDAK Ö.

3rd International Conference On Advances In Mechanical Engineering (ICAME '17), İstanbul, Turkey, 19 December 2017, pp.50-56

### **9. Organic Rankine Cycle (ORC) System Design**

BOYDAK Ö.

IV. International Energy Technologies Conference (ENTECH '16), İstanbul, Turkey, 15 December 2016, pp.371-374

### **10. Commercial Buildings Energy Consumption Survey (CBECS) And Its Comparison with Turkey Applications**

BOYDAK Ö.

2015 International Conference on Renewable Energy and Conversation (ICREC 2015), Bükreş, Romania, 29 October 2015, no.1, pp.69-72

### **11. A REVIEW OF DEVELOPMENT OF CASTING PROCESS IN THE OTTOMAN CIVILIZATION**

BOYDAK Ö.

International Congress Of Civilization, İstanbul, Turkey, 17 January 2014, pp.100-111

### **12. Microstructural and Mechanical Characterization of High Temperature and Creep Resistant Steel Weldments**

BOYDAK Ö., Keskinçilç S., Koçak M.

63rd Annual Assembly & International Conference of the International Institute of Welding, İstanbul, Turkey, 01 July 2010, pp.835-841

## **Professional Experience**

## **Courses**

Fizik Laboratuvarı, Under Graduate, 2018 - 2019

Calculus, Under Graduate, 2019 - 2020  
Fizik Laboratuvarı, Under Graduate, 2016 - 2017

### Activities in Scientific Journals

Journal Of Internet Technology, Special Issue Editor, 2020 - 2020  
Journal Of Internet Technology, Special Issue Editor, 2019 - 2019  
Journal of Internet Technology (JIT), Special Issue Editor, 2018 - 2018  
Journal of Internet Technology (JIT), Special Issue Editor, 2017 - 2017

### Memberships / Tasks in Scientific Organizations

BUMED, Member, 2007 - Continues, Turkey  
YTUMED, Member, 2003 - Continues, Turkey  
MMO, Member, 2003 - Continues, Turkey

### Scientific Refereeing

JOURNAL OF INTERNET TECHNOLOGY, SCI Journal, November 2019  
Journal Of Thermal Engineering, Journal Indexed in ESCI, November 2019  
The 4th International Conference on New Energy and Future Energy Systems (NEFES 2019), Other Indexed Journal, May 2019  
Akademia Baru Press, Other Indexed Journal, November 2018  
INTERNATIONAL JOURNAL OF ADVANCES ON AUTOMOTIVE AND TECHNOLOGY, Other Indexed Journal, July 2018  
Journal of Internet Technology (JIT), SCI Journal, July 2018  
The 8th International Conference on Electronics, Communications and Networks (CECNet2018), Other Indexed Journal, April 2018  
The 7th International Conference on Electronics, Communications and Networks (CECNet 2017), Conference Paper (Full Text), November 2017  
Journal of Internet Technology (JIT), SCI Journal, May 2017  
The 6th International Conference on Electronics, Communications and Networks (CECNet 2016), Other Indexed Journal, December 2016  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, January 2014

### Tasks In Event Organizations

Boydak Ö., The 3rd International Conference on Information Technologies and Electrical Engineering ICITEE2020, Scientific Congress, Chengde, China, Aralık 2020  
Boydak Ö., The 8th International Conference on Electronics, Communications and Networks, Scientific Congress, Bangkok, Thailand, Kasım 2018  
Boydak Ö., International Conference On Progresses In Automotive Technologies 2018 (ICPAT 2018), Scientific Congress, İstanbul, Turkey, Mayıs 2018

### Invited Congress and Symposium Activities

2. International Conference on Life and Engineering Sciences (ICOLES 2019), Working Group, İstanbul, Turkey, 2019  
VI. European Conference on Renewable Energy Systems (ECRES 2018), Attendee, İstanbul, Turkey, 2018

International Conference on Progresses in Automotive Technologies 2018 (ICPAT'18), Attendee, İstanbul, Turkey, 2018  
International Conference on Progresses in Automotive Technologies 2018 (ICPAT 2018), Session Moderator, İstanbul, Turkey, 2018  
INTERNATIONAL CONGRESS OF ENERGY, ECONOMY AND SECURITY (ENSCON '18), Attendee, İstanbul, Turkey, 2018  
II. INTERNATIONAL CONFERENCE ON ECOLOGY, ECOSYSTEMS AND CLIMATE CHANGE (ECOLOGY '18), Attendee, İstanbul, Turkey, 2018  
II. INTERNATIONAL CONFERENCE ON ECOLOGY, ECOSYSTEMS AND CLIMATE CHANGE/ ECOLOGY '18, Session Moderator, İstanbul, Turkey, 2018  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING/ ICAME '17, Attendee, İstanbul, Turkey, 2017  
ENTECH '17 / V. International Energy Technologies Conference, Attendee, İstanbul, Turkey, 2017  
ENTECH '16 / IV. International Energy Technologies Conference, Session Moderator, İstanbul, Turkey, 2016  
ENTECH '16 / IV. INTERNATIONAL ENERGY TECHNOLOGIES CONFERENCE, Attendee, İstanbul, Turkey, 2016  
13. EKSERJİ VE UYGULAMALARI YAZ OKULU, Attendee, İstanbul, Turkey, 2016  
Radiation Safety and Protection , ENRESA, Europroyectos LdV Cordoba, Attendee, Madrid, Spain, 2014  
Clean Energy and Clean Environment , Central Termosolar "la Africana", Europroyectos LdV Cordoba, SADECO, Attendee, Cordoba, Spain, 2014  
"LdV Hareketlilik Projesi Ön Eğitimi", İstanbul Medeniyet Üniversitesi, Attendee, İstanbul, Turkey, 2014  
Radiation Protection Course, Ciemat, Radiation Protection and Nuclear Technology Training Unit, Attendee, Spain, 2014  
"Radyasyondan Korunma Yolları ve Malzemeler", İTÜ, Attendee, Turkey, 2014  
INTERNATIONAL CONGRESS ON CIVILIZATION, Attendee, İstanbul, Turkey, 2014  
Proje Hazırlama Çalıştayı, Attendee, İstanbul, Turkey, 2013  
ELEKTRİKLİ ARAÇLAR SEMPOZYUMU, Attendee, İSTANBUL, Turkey, 2011  
IIW WELDING 2010 CONGRESS, Attendee, İSTANBUL, Turkey, 2010

## Citations

Total Citations (WOS):8

h-index (WOS):2

## Research Areas

Mechanical Engineering, Energy, Fluid Machinery, Construction and Manufacturing, Casting Methods, Thermodynamics, Thermal Systems, Thermal machines, Engineering and Technology