

## **Prof. Cevat Erdem İmrak**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: DWX-2186-2022

ScopusID: 55665653800

Yoksis Researcher ID: 3186

### **Education Information**

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Konstrüksiyon (YI) (Tezli), Turkey 1992 - 1996

Postgraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1990 - 1992

Undergraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1986 - 1990

### **Foreign Languages**

English

### **Research Areas**

Mechanical Engineering, Construction and Manufacturing, Machine Elements, Machine Design, Computer Aided Design and Manufacturing, Transport Technique, Engineering and Technology

### **Academic Titles / Tasks**

Professor, Istanbul Technical University, Makina, Makina Mühendisliği, 2008 - Continues

Associate Professor, Istanbul Technical University, Makina, Makina Mühendisliği, 1998 - 2008

Lecturer PhD, Istanbul Technical University, Makina, Makina Mühendisliği, 1996 - 1998

Research Assistant, Istanbul Technical University, Makina, Makina Mühendisliği, 1990 - 1996

### **Academic and Administrative Experience**

Program Koordinatörü, Istanbul Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 2015 - 2018

Vice Dean, Istanbul Technical University, Makine Mühendisliği Bölümü, 2001 - 2010

Deputy Head of Department, Istanbul Technical University, Makina, Makina Mühendisliği, 1999 - 2001

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Experimental investigation of corrosion effects on bending fatigue of the wire ropes**  
Salman Ö., İmrak C. E.  
Indian Journal Of Engineering And Materials Sciences, vol.27, no.3, pp.770-775, 2020 (SCI-Expanded)
- II. **Discarding lifetime investigation of a rotation resistant rope subjected to bending over sheave fatigue**  
Onur Y. A., İmrak C. E., Onur T. O.  
MEASUREMENT, vol.142, pp.163-169, 2019 (SCI-Expanded)
- III. **Investigation on Bending over Sheave Fatigue Life Determination of Rotation Resistant Steel Wire Rope**  
Onur Y. A., İmrak C. E., Onur T. O.  
EXPERIMENTAL TECHNIQUES, vol.41, no.5, pp.475-482, 2017 (SCI-Expanded)
- IV. **Discard fatigue life of stranded steel wire rope subjected to bending over sheave fatigue**  
ONUR Y. A., İMRAK C. E.  
Mechanics & Industry, vol.18, pp.223, 2017 (SCI-Expanded)
- V. **Experimental determination of degradation influence on bending over sheave fatigue life of steel wire ropes**  
Onur Y. A., İmrak C. E.  
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.20, no.1, pp.14-20, 2013 (SCI-Expanded)
- VI. **Flow due to non-coaxial rotation of a porous disk and a second grade fluid rotating at infinity**  
Erdogan M. E., İmrak C. E.  
INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, vol.46, no.7, pp.986-989, 2011 (SCI-Expanded)
- VII. **The influence of rotation speed on the bending fatigue lifetime of steel wire ropes**  
Onur Y. A., İmrak C. E.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.225, no.C3, pp.520-525, 2011 (SCI-Expanded)
- VIII. **Artificial neural networks application in Duplex/Triplex elevator group control system**  
İmrak C. E.  
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.54, no.2, pp.103-114, 2008 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **Investigation of Bending Over Sheave Fatigue Life of Stranded Steel Wire Rope By Artificial Neural Networks**  
ONUR Y. A., İMRAK C. E.  
International Journal of Mechanical and Production Engineering, vol.4, pp.47-49, 2016 (Peer-Reviewed Journal)
- II. **EXPERIMENTAL STRESS ANALYSIS OF ELEVATOR GUIDING EQUIPMENT**  
Altuntas M., Salman O., İmrak C. E.  
ADVANCED DESIGN AND MANUFACTURE V, vol.572, pp.177-180, 2014 (Scopus)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **THE SIMULATION OF SEISMIC EFFECTS ON GUIDE RAIL FASTENERS AND RE-DESIGN OF BRACKETS**  
Sancak A., Candaş A., İmrak C. E., Targit S.  
ELEVCON 2023, Praha, Czech Republic, 20 - 22 June 2023
- II. **A Field Study on the Damage of Elevators after the Twin Earthquakes**  
Çelik F., İmrak C. E., Targit S.  
ELEVCON 2023, Praha, Czech Republic, 20 - 22 June 2023, pp.1-8
- III. **Modelling of Dynamic Crack Propagation in Ice Subjected to Impact Load using Peridynamics**  
Candaş A., Oterkus E., Oterkus S., Sarıkaya M. A., İmrak C. E.

27th International Conference on Port and Ocean Engineering under Arctic Conditions, POAC 2023, Glasgow, England, 12 - 16 June 2023, vol.2023-June

**IV. Hidrolik Pres Tahrikli Kapalı Kalıpta Sıcak Dövme Prosesinin Modelenmesi ve Parametre Optimizasyonu**

Biçer U., Candaş A., İmrak C. E.

8. Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, İstanbul, Turkey, 8 - 10 December 2022

**V. Yoğun Yolcu Kullanımına Açık Yürüyen Merdivenlerin Güvenlik Seviyesini Artırmaya Yönelik Koruyucu Bakım Esasları**

Sancak A., Candaş A., Kocabal Y. Z., İmrak C. E.

10. Uluslararası Katılımlı Bakım Teknolojileri Kongresi ve Sergisi, Denizli, Turkey, 20 - 22 October 2022, pp.385-398

**VI. Deprem Bölgelerindeki Asansör Tesislerinin Deprem Önlemleri ve Hesaplama Esaslarının Karşılaştırılması**

Sancak A., İmrak C. E., Candaş A.

X. Asansör Sempozyumu, İzmir, Turkey, 18 November 2021, pp.95-104

**VII. Rüzgar Türbinleri için Otomatik Tırmanma Asansörü Tasarımı**

Pelitli G. M., Korkmaz M., Çağıl T. O., Candaş A., İmrak C. E.

X. Asansör Sempozyumu, İzmir, Turkey, 18 - 20 November 2021

**VIII. Asansörler ve Yürüyen Merdivenlerde Enerji Tüketimi ve Verimliliği**

Kocabal Y. Z., İmrak C. E., Candaş A.

IX. Asansör Sempozyumu, İzmir, Turkey, 18 - 20 October 2018, pp.127-135

**IX. Panoramik Asansör Kabini Sonlu Elemanlar Modellemesi ve Analizi**

ŞAHİN U., İMRAK C. E.

IX. Asansör Sempozyumu, İzmir, Turkey, 18 - 20 October 2018, pp.59-63

**X. Point Fixed Laminated Glass Stress Distribution Under Out of Plane Load**

KALAY E., İMRAK C. E.

The 12st Int Research/Expert Conference "Trends in the Development of Machinery and Associated Technology, Karlovy-Vary, Czech Republic, 18 - 22 September 2018, pp.229-232

**XI. Design and Analysis of the Protective Structure of An Intercity Bus During A Rollover Accident**

ÇOLAK N., ŞAHİN U., CANDAŞ A., İMRAK C. E.

26 International Scientific Technical Conference, trans MOTAUTO 2018, Burgaz, Bulgaria, 27 - 30 June 2018, pp.14-17

**XII. Analytical and Finite Element In-Plane Vibration Analysis of a Gantry Crane**

Şahin T., Candaş A., İmrak C. E.

26 International Scientific Technical Conference, trans MOTAUTO 2018, Burgas, Bulgaria, 27 - 30 June 2018, pp.45-47

**XIII. Investigation of Bending Over Sheave Fatigues Life of Stranded Steel Wire rope by Artificial Neural networks**

ONUR Y. A., İMRAK C. E., ONUR T. Ö.

The IRES International Conference, 17 - 18 July 2016, pp.1-3

**XIV. Critical Tensile Load of Stranded Ropes Subjected to Bending over Sheave Fatigue**

ONUR Y. A., İMRAK C. E.

MECHATECH'16 Int. Mechanical Eng. & Techn. Conf, 17 - 18 May 2016, pp.51-54

**XV. Experimental Studies on Guide Rail**

İMRAK C. E., SALMAN Ö., Atay S.

5th Symposium on Lift & Escalator Technologies, 23 - 24 September 2015

**XVI. Experimental studies on guide rail fastening system**

İMRAK C. E., SALMAN Ö., ATAY S.

5th Symposium on Lift & Escalator Technologies, 23 - 24 September 2015

**XVII. İstanbul'un Tarihi Füniküler 'Tünel'**

Kayaoglu E., Candaş A., Kocabal Y. Z., İmrak C. E.

Asansör Sempozyumu, İzmir, Turkey, 25 - 27 September 2014, pp.297-305

- XVIII. **Early Application of Underground Funicular Tunnel in Istanbul**  
Kayaoglu E., Candaş A., Kocabal Y. Z., İmrak C. E.  
20th International Congress on Vertical Transportation Technologies ELEVON 2014, Paris, France, 8 - 10 July 2014
- XIX. **Determination of loads acting on guide rail fixing under certain loading conditions**  
Atay S., Kayaoglu E., Candaş A., İmrak C. E.  
20th International Congress on Vertical Transportation Technologies ELEVON 2014, Paris, France, 8 - 10 July 2014
- XX. **Effects of 2011 Van Earthquake on the Elevators**  
İMRAK C. E., ÇELİK F.  
ELEVCON 2014, 8 - 10 July 2014
- XXI. **Experimental Stress Analysis of Elevator Guiding Equipment**  
İMRAK C. E., SALMAN Ö., ALTUNTAŞ M.  
ADM 2013, 25 - 28 September 2013
- XXII. **Design optimisation of elevator car for double deck system**  
İMRAK C. E., KOCAMAN M.  
MTM 2012, 19 - 21 October 2012
- XXIII. **19. Yüzyıl Hidrolik Asansör Teknolojisi ve Tarihi Asansör**  
Kocabal Y. Z., Candaş A., Kayaoglu E., İmrak C. E.  
Asansör Sempozyumu 2012, İzmir, Turkey, 4 - 06 October 2012, pp.49-55
- XXIV. **Ani tip Fren Bloklarının Modellemesi, Testi ve Analizi**  
Kayaoglu E., Candaş A., İmrak C. E., Targit S.  
Asansör Sempozyumu 2012, İzmir, Turkey, 4 - 06 October 2012, pp.209-215
- XXV. **Modeling and analysis of guide rail brackets and attaching parts**  
Elmali S., Candaş A., Kayaoglu E., İmrak C. E., Targit S.  
ELEVCON 2012, Florida, United States Of America, 22 - 24 May 2012
- XXVI. **Complex wire ropes models for lifts**  
İMRAK C. E., SALMAN Ö., Erdönmez C.  
ELEVCON 2012, 22 - 24 May 2012
- XXVII. **The street called Asansor and water powered elevator installation in İzmir**  
Barlas E., İmrak C. E., Kayaoglu E., Candaş A., Kocabal Y. Z.  
ELEVCON 2012, Florida, United States Of America, 22 - 24 May 2012
- XXVIII. **Numerical Model and Methodology on the analysis of complicated wire rope structures**  
ERDÖNMEZ C., İMRAK C. E.  
ICCES 2012, 30 April - 04 May 2012
- XXIX. **Numerical model for an IWRC bending over sheave problem and its finite element solution**  
İMRAK C. E., ERDÖNMEZ C.  
Int. Conf. on Applied, Numerical and Computational Mathematics, ICANCM'xx11, Barcelona, Spain, 15 - 17 September 2011, pp.199-205
- XXX. **New Approaches for Model Generation and Analysis for Wire Rope**  
Erdonmez C., İmrak C. E.  
11th International Conference on Computational Science and Its Applications (ICCSA), Santander, Spain, 20 - 23 June 2011, vol.6785, pp.103-111
- XXXI. **Computer Modeling and Simulation of Spur Involute Gears by Generating Method**  
Fetvaci C., Imrak E.  
3rd International Conference on Advanced Design and Manufacture, Nottingham, England, 8 - 10 September 2010, vol.450, pp.103-104
- XXXII. **Strain measurement of stranded rope subjected to bending over sheave fatigue**  
ONUR Y. A., İMRAK C. E.  
XVI International Conference on Investigation Production and Use of Steel Wire Ropes Coveyors & Hoisting Machines, 21 - 24 September 2010
- XXXIII. **Advances in 3D wire rope modeling and numerical analysis**  
İMRAK C. E., Erdönmez C.

- XVI. International Conference on Investigation Production & Use of Steel Wire Ropes Conveyors & Hoisting Machines, 21 - 24 September 2010
- XXXIV. **Wire strand and IWRC modeling and contact analysis using finite elements**  
İMRAK C. E., Erdönmez C.  
ADM 2010, 8 - 10 September 2010
- XXXV. **Computer Modeling and Simulation of Spur Gears by Generation Methods**  
FETVACI M. C., İMRAK C. E.  
ADM 2010, 8 - 10 September 2010
- XXXVI. **Wire Strand and IWRC Modeling and Contact Analysis using Finite Elements**  
Erdonmez C., İmrak C. E.  
3rd International Conference on Advanced Design and Manufacture, Nottingham, United Kingdom, 8 - 10 September 2010, vol.450, pp.115-116
- XXXVII. **3D finite element modeling and analysis of seale independent wire rope core**  
İMRAK C. E., Erdönmez C.  
MOSS 2010, 21 - 23 July 2010
- XXXVIII. **Design parameters and stress analysis of elevator guide rail brackets**  
İMRAK C. E., Targit S., Koç S.  
ELEVCON 2010, 2 - 04 June 2010
- XXXIX. **Elevator installation near by the Bosphorus from Ottman Era**  
Kayaoglu E., Barlas E., İMRAK C. E.  
ELEVCON 2010, 2 - 04 June 2010
- XL. **Characterizing the finite element analysis of nested helical geometry and test procedure for wire ropes**  
İMRAK C. E., SALMAN Ö., Erdönmez C.  
ECCOMAS 2010, 16 - 21 May 2010
- XLI. **An application of reverse engineering in concurrent engineering**  
İMRAK C. E., SALMAN Ö.  
PİME 09, 24 - 27 August 2009
- XLII. **Computerized cutting simulation of involute helical gears generated with rack cutters**  
FETVACI M. C., İMRAK C. E.  
The 13th International Conference on Machine Design & Production, 3 - 05 September 2008
- XLIII. **Design and static stress analysis of elevator car suspension during operation**  
İMRAK C. E., ONUR Y. A.  
TMT2008, 26 - 30 August 2008
- XLIV. **Mathematical modeling and static stress analysis of steel wire rope strand using finite element method**  
İMRAK C. E., Erdönmez C.  
TMT 2008, 26 - 30 August 2008
- XLV. **Design for assembly and maintainability in computer aided engineering and a case study packaging**  
İMRAK C. E., FETVACI M. C., ÖZDEMİR KIRAN A.  
The 13th International Conference on Problems of Material Engineering Mechanics & Design, 26 - 29 August 2008
- XLVI. **Modeling of JIB crane construction analysis with finite element method**  
GERDEMELİ İ., İMRAK C. E., ÜNAL B.  
The 13th International Conference on Problems of Material Engineering Mechanics & Design, 26 - 29 August 2008
- XLVII. **The effect of surface roughness on the performance characteristics of radial lip seals**  
İMRAK C. E., TEMİZ V., PARLAR Z., KERKÜKLÜ Y.  
The 13 the International Conference on Problems of Material Engineering Mechanics & Design, 26 - 29 August 2008
- XLVIII. **Generation simulation of helical gear drivers by rack cutters having aysmmetric teeth**  
FETVACI M. C., İMRAK C. E.  
The 13th International Conference on Problems of Material Engineering Mechanics and Design, 26 - 29 August

2008

- XLIX. **The Effects Of The Shaft Surface Roughness On Performance Of The Rotary Shaft Seals**  
YAKUT K., PARLAR Z., TEMİZ V., İMRAK C. E.  
The 13th International Conference on Problems of Material Engineering, Mechanics and Design, 6 - 08 August 2008, vol.2, pp.16-20
- L. **Finite element modeling static stress analysis of axial loaded wire ropes**  
İMRAK C. E., Kayaoglu E., Erdönmez C.  
MOSS 2008, 23 - 25 July 2008
- LI. **Finite element modeling stress analysis on guide rails during safety gear operation**  
İMRAK C. E., BEDİR S., Kayaoglu E.  
MOSS 2008, 23 - 25 July 2008
- LII. **Strength equations and finite element modeling of JIB crane construction**  
GERDEMELİ İ., İMRAK C. E., ÖZER D.  
5th European Congress on Computational Methods in Applied Sciences & Engineering, 30 June - 05 July 2008
- LIII. **Modeling and Solution of the Bending Problem over the Helical Wire strand**  
İMRAK C. E., Erdönmez C.  
5th European Congress on Computational Methods in Applied Sciences & Engineering, 30 June - 05 July 2008
- LIV. **Investigation of Stressess on guide rails and safety gears**  
İMRAK C. E., Targit S., Bedir S.  
ELEVCON 2008, 11 - 13 June 2008
- LV. **Early Version of Elevator Installation in Istanbul Hotel Pera Palace**  
İMRAK C. E., BARLAS E., Kayaoglu E.  
ELEVCON 2008, 11 - 06 June 2008
- LVI. **Analytical Study and Finite Element Analysis of Elevator Car Suspension**  
İMRAK C. E., ONUR Y. A.  
AMTECH 2007, 23 - 24 November 2007
- LVII. **General Nonlinear Equilibrium Equation Solution of the straight wire strand**  
İMRAK C. E., Erdönmez C.  
ICNAAM 2007, 16 - 20 September 2007
- LVIII. **Computer aided design of helical gears with asymmetric involute teeth**  
FETVACI M. C., İMRAK C. E.  
TMT 2007, 5 - 09 September 2007
- LIX. **Modeling and Analysis of axial loaded wire rope strand using the finite elment method**  
İMRAK C. E., ŞENTÜRK Ö.  
TMT 2007, 5 - 09 September 2007
- LX. **Finite Element approach to stress analysis for elevator car sling**  
ONUR Y. A., İMRAK C. E.  
TMT 2007, 5 - 09 September 2007
- LXI. **Static stress analysis of traction chain links using the boundary element method**  
İMRAK C. E., FETVACI M. C.  
MOSS 2006, 28 - 29 September 2006
- LXII. **Determination of the distribution of specific pressure between wire rope and groove**  
İMRAK C. E., GERDEMELİ İ.  
MOSS 2006, 28 - 29 September 2006
- LXIII. **Modeling and stress analysis of axial loaded wire ropes**  
GERDEMELİ İ., İMRAK C. E.  
V. International Congress Mechanical Engineering Technologies 06, 20 - 23 September 2006
- LXIV. **Static stress analysis of gantry cranes by means of finite element method**  
İMRAK C. E., GERDEMELİ İ., Erdil A. B.  
V. International Congress Mechanical Engineering Technologies 06, 20 - 23 September 2006
- LXV. **Design for assembly methodology and its application of elevator car door design**

- GERDEMELİ İ., FETVACI M. C., İMRAK C. E.  
 V. International Congress Mechanical Engineering Technologies 06, 20 - 23 September 2006
- LXVI. **Static stress analysis of gantry crane by means of finite element method**  
 GERDEMELİ İ., İMRAK C. E., Erdil A. B.  
 V. International Congress Mechanical Engineering Technologies 06, 20 - 23 September 2006
- LXVII. **Design of elevator car doors for assembly**  
 LİVATYALI H., İMRAK C. E., DEMİR U.  
 TMT 2006, 11 - 15 September 2006
- LXVIII. **Linear and nonlinear finite element modeling and stress analysis of portal cranes**  
 GERDEMELİ İ., İMRAK C. E., ERDİK A.  
 TMT 2006, 11 - 15 September 2006
- LXIX. **The modern lift control systems in multi stores building**  
 BOLAT B., İMRAK C. E.  
 TMT 2006, 11 - 15 September 2006
- LXX. **Modeling and static stress analysis of elevator car frame using finite element method**  
 LİVATYALI H., ONUR Y. A., İMRAK C. E.  
 The 12th International Conference on Machine Design and Production, 5 - 08 September 2006
- LXXI. **Finite Element modeling and nonlinear stress analysis of portal crane**  
 GERDEMELİ İ., İMRAK C. E., Erdik A.  
 The 12th International Conference on Machine Design and Production, 5 - 08 September 2006
- LXXII. **Reducing the average journey time in the group elevators by means of simulation**  
 BOLAT B., İMRAK C. E.  
 ELEVCON 2006, 20 - 22 June 2006
- LXXIII. **Computer aided car frame modeling and stress analysis**  
 İMRAK C. E., ONUR Y. A.  
 ELEVCON 2006, 20 - 22 June 2006
- LXXIV. **Test unit design for hydarulic elevator valves**  
 İMRAK C. E., Çelik F., Barlas E.  
 ELEVCON 2006, 20 - 22 June 2006
- LXXV. **Experimental stress analysis of guide rails**  
 SÜNBÜLOĞLU E., BOZDAĞ S. E., TOPRAK T., TOPRAK T., İMRAK C. E., Demirsöz R., Targıt S.  
 ELEVCON 2006, 20 - 22 June 2006
- LXXVI. **Finite element modeling and static stress analysis of crosshead**  
 LİVATYALI H., İMRAK C. E., FETVACI M. C., ERDİL A. B.  
 AED 2006, 11 - 14 June 2006
- LXXVII. **Static stress analysis of lifting hooks as a curved beam**  
 GERDEMELİ İ., FETVACI M. C., İMRAK C. E.  
 AED 2006, 11 - 14 June 2006
- LXXVIII. **Finite element modeling and static stress analysis of guide rails**  
 İMRAK C. E., DEMİRSÖZ R., Targıt S.  
 trans & MOTAUTO 05, 23 - 25 November 2005
- LXXIX. **Computer Aided Geometric Design of Hooks using B Spline Synthetic Curves**  
 İMRAK C. E., FETVACI M. C., GERDEMELİ İ.  
 trans & MOTATUTO 05, 23 - 25 November 2005
- LXXX. **Genetic algorithms embedded elevator traffic control system**  
 BOLAT B., İMRAK C. E.  
 Trans & MOTATUTO 05, 23 - 25 November 2005
- LXXXI. **Finite element modeling of escalator truss for static stress analysis**  
 İMRAK C. E., GERDEMELİ İ., DEMİSÖZ R.  
 AMTECH 2005, 9 - 11 November 2005
- LXXXII. **Finite element modeling of spur gears for contact and bending stresses**

- İMRAK C. E., FETVACI M. C., GERDEMELİ İ.  
AMTECH 2005, 9 - 11 November 2005
- LXXXIII. **Static stress analysis of the thick walled cylinder pipe by means of finite element and boundary element methods**  
İMRAK C. E., FETVACI M. C., GERDEMELİ İ., KESİKCİ K.  
AMTECH 2005, 9 - 11 November 2005
- LXXXIV. **Design and static stress analysis of hook crosspiece by means of finite element method**  
İMRAK C. E., Demirsöz R., Kesikçi K.  
AMTECH 2005, 9 - 11 November 2005
- LXXXV. **Kabin Çerçevelarının Sonlu Elemanlarla Modellenmesi ve Startik Gerilme Analizi**  
İMRAK C. E., ONUR Y. A.  
7th International Fracture Conference, 19 - 21 October 2005
- LXXXVI. **Comparison of boundary element and finite element methods in chain link stress analysis**  
SÜNBÜLOĞLU E., İMRAK C. E., FETVACI M. C., Kesikçi K.  
ATS 2005, 28 - 30 September 2005
- LXXXVII. **Finite element modeling of spur gears for contact stresses during the whole meshing cycle**  
İMRAK C. E., FETVACI M. C.  
TMT 2005, 26 - 30 September 2005
- LXXXVIII. **Finite element modeling and static stress analysis of crane box girder**  
İMRAK C. E., FETVACI M. C.  
ATS 2005, 28 - 30 September 2005
- LXXXIX. **Comparison of two dimensional with three dimensional boundary element modeling and static stress analysis**  
İMRAK C. E., GERDEMELİ İ., Kesikçi K.  
TMT 2005, 26 - 30 September 2005
- XC. **The simulation and optimization of lift control systems with genetic algorithms**  
BOLAT B., İMRAK C. E., YALÇIN E.  
TMT2005, 26 - 30 September 2005
- XCI. **Exact analysis of stresses in a crane hook**  
KOCABAŞ H., İMRAK C. E.  
TMT 2005, 26 - 30 September 2005
- XCII. **Stress analysis of roller chain links of transport systems by boundary element method**  
İMRAK C. E., GERDEMELİ İ., Kesikçi K.  
ELEVCON 2004, 27 April 2004 - 29 September 2005
- XCIII. **Shape optimization of hollowed roller chains by means of elasto static stress analysis**  
GERDEMELİ İ., İMRAK C. E., Kesikçi K.  
ELEVCON 2005, 7 - 09 June 2005
- XCIV. **Finite element analysis of elevator guide rails during safety gear operation**  
İMRAK C. E., Demirsöz R., Targit S.  
ELEVCON 2005, 7 - 09 June 2005
- XCV. **The model generation and optimization of escalator truss structure for the finite element analysis**  
İMRAK C. E., FETVACI M. C., GERDEMELİ İ.  
11. International Conference on Machine Design & Production, 13 - 15 October 2004
- XCVI. **Boundary Element and finite element stress analysis of the chain links**  
İMRAK C. E., FETVACI M. C., Kesikçi K.  
11. International conference on machine design and production, 13 - 15 October 2004
- XCVII. **The critical velocities of the free transverse vibratios of moving conveyor belts**  
ÖZKIRIM H. M., GERDEMELİ İ., İMRAK C. E.  
VI.International Congress Mechanical Engineering Technologies 04, 23 - 25 September 2004
- XCVIII. **Two dimensional modeling and stress analysis of engineering structures for boundary element analysis**

- İMRAK C. E., FETVACI M. C., GERDEMELİ İ., Kesikçi K.  
VI.International Congress Mechanical Engineering Technologies 04, 23 - 25 September 2004
- XCIX. **Solid modeling and finite element analysis of overhead crane bridge**  
KOCABAŞ H., İMRAK C. E., ALKIN C.  
AED 2004, 5 - 08 September 2004
- C. **Boundary element modeling and static analysis of chain links**  
İMRAK C. E., GERDEMELİ İ., FETVACI M. C., Kesikçi K.  
AED 2004, 5 - 08 September 2004
- CI. **Condition monitoring of lift gear boxes by means of sound analysis**  
ÖZKIRIM H. M., İMRAK C. E., UZUNOĞLU H.  
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- CII. **The finite element modeling of spur gears for pseudodynamic stress analysis**  
FETVACI M. C., İMRAK C. E.  
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- CIII. **Countermeasures for elevators in the seismic risk zone of Istanbul**  
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- CIV. **The modeling and simulation of elevator group control systems for public service buildings**  
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- CV. **Determination of th next stopping floor in elevator traffic control by means of neural networks**  
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- CVI. **Calculating the pressure distribution in undercut groove stress function solution**  
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ELEVCON 2002, 25 - 27 June 2002
- CVII. **Funiculat systems and an early application in Istanbul**  
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- CIX. **Bilgisayar Destekli Basit Kanca Gerilme Analizi**  
ÖZKIRIM H. M., GERDEMELİ İ., İMRAK C. E.  
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- CX. **Preventive maintenance in elevator installations**  
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- CXI. **Structures and selection of wire ropes in elevators**  
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İMRAK C. E.  
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- CXIII. **Application of Neural Networks on Traffic Control**  
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- CXV. **Kaynaklı İmalatta Kaynak Parametrelerinin WPS Bilgisayar Yardımıyla Tayini**

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- CXVI. **Eğri Eksenli Çubuk Olarak Kancaların Bilgisayar Yardımıyla Tasarımı**  
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## Supported Projects

İmrak C. E., Project Supported by Higher Education Institutions, Çelik Tel Halatlarda Korozyonlu Yorulma Davranışının Deneysel Olarak İncelenmesi, 2014 - 2021

İmrak C. E., Project Supported by Higher Education Institutions, Tel Halatların Korozyonlu Yorulma Davranışının Modellenmesi ve İncelenmesi, 2014 - 2021

İmrak C. E., Project Supported by Higher Education Institutions, KLAVUZ RAY SABİTLEME SİSTEMLERİNİN DENEYSEL İNCELENMESİ, 2015 - 2018

İmrak C. E., Project Supported by Higher Education Institutions, Asansör Kilavuzlama Ekipmanlarının Deneysel Gerilme Analizi, 2013 - 2018

İmrak C. E., Project Supported by Higher Education Institutions, HALAT DEMETLERİNİN VE IWRC MODELLERİNİN SONLU ELEMANLARLA MODELLENMESİ VE ANALİZİ, 2010 - 2018

İmrak C. E., Project Supported by Higher Education Institutions, Asansör Kabin Kapılarının Montalı Uygun Tasarımı, 2006 - 2018

İmrak C. E., Project Supported by Higher Education Institutions, Kren Köprülerinin Katı Modellenmesi ve Sonlu Elemanlarla Analizi, 2004 - 2018

İmrak C. E., Project Supported by Higher Education Institutions, Çift Yönlü Kaymali Asansör Fren Bloklarının Dizayn Parametrelerinin Belirlenmesi ve Analizi, 2006 - 2014

İmrak C. E., Project Supported by Higher Education Institutions, Komple Asansör Ray Bağlantı Sisteminin Pratik Gerilme Davranışının İncelenmesi, 2013 - 2013

İmrak C. E., Project Supported by Higher Education Institutions, Düşey Mesnetlenmiş Raylar İçin Bağlantı Ekipmanlarının Dinamik Yük Altında Modellenmesi ve Analizi, 2011 - 2013

İmrak C. E., Project Supported by Higher Education Institutions, Çift katlı Asansörlerin Trafik Modellemesi , analizi ve ve Montaja Uygun Tasarımı, 2011 - 2012

İmrak C. E., Project Supported by Higher Education Institutions, Asansör Klavuz Ray Mesnet Bağlantılarının Dinamik Yük Altında Modellenmesi ve Analizi, 2010 - 2012

İmrak C. E., Project Supported by Higher Education Institutions, Halat Ömrüne Etki Eden Parametrelerin Teorik ve Deneysel Olarak İncelenmesi, 2009 - 2011

İmrak C. E., Project Supported by Higher Education Institutions, Belirli Koşullar Altında Tel Halatların Modellenmesi ve Gerilim Analizi, 2008 - 2010

İmrak C. E., Project Supported by Higher Education Institutions, Asansör Fren Bloklarının Modellenmesi ve Tasarım Parametrelerinin Belirlenmesi, 2008 - 2009

İmrak C. E., Project Supported by Higher Education Institutions, Portal Kren Gövdesinin Sonlu Elemanlarla Modellenmesi ve Statik Gerilme Analizi, 2005 - 2006

İmrak C. E., Project Supported by Higher Education Institutions, Asansör Kabin Çerçevelarının Bilgisayar Ortamında Tasarımı ve Sonlu Elemanlar ile Yapısal Analizi, 2005 - 2006

İmrak C. E., Project Supported by Higher Education Institutions, Kanca Traverslerinin Parametrik Tasarlanması, Gerilme Analizleri ve Prototip Üretim Yöntemlerinin İncelenmesi, 2004 - 2006

İmrak C. E., Project Supported by Higher Education Institutions, Birleştirilmiş Sınır Eleman ve Sonlu Eleman Metoduyla Gerilme Analizi Düz Dişli Çarklara Uygulanması, 2005 - 2005

İmrak C. E., Project Supported by Higher Education Institutions, Eşzamanlı Mühendislikte Montaja Uygun Tasarım

Yaklaşımı ve Üniversal Asansör Otomatik Kapısı Tasarımına Uygulanması, 2004 - 2004

İmrak C. E., Project Supported by Higher Education Institutions, Asansör kılavuz raylarının Gerilme Analizi, 2002 - 2004

İmrak C. E., Project Supported by Higher Education Institutions, Asansör Sistemlerinde Kullanılan Dişlilerdeki Kusurların

Yapay Sinir Ağları Yöntemiyle Teşhis, 2002 - 2004

İmrak C. E., Project Supported by Higher Education Institutions, Kaldırma Makinaları Elemanlarının Sinir Elemanlar

Yöntemiyle Bilgisayar Ortamında Gerileme Analizi İçin Bil Arş Geliştirme, 2001 - 2004

## Activities in Scientific Journals

Mühendis ve Makina, Publication Committee Member, 2007 - Continues

The European Elevator Magazine ELEVATORI , Publication Committee Member, 2000 - Continues

## Memberships / Tasks in Scientific Organizations

OIPEEC, Member, 2010 - Continues

Kaynak Tekniği Derneği, Vice President, 2005 - Continues

International Association of Elevator Engineers, Member, 1993 - Continues

Makina Mühendisleri Odası, Member, 1990 - Continues

## Metrics

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