CURRICULUM VITAE

Surname : TAÇGIN

Name : Erturul

Sex : Male

Date of Birth : 04.11.1962

Title, Department : Prof.Dr.

University. Department : Marmara Univ. Eng.Faculty; Mechanical Engineering

Department; Istanbul/TURKEY.

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Fields of Interest : Artificial Intelligence; Expert Systems; Genetic Algorithms;

Robot Grippers; Machine Learning; Machine Theory;

Mechanisms; Dynamics of Machines; System Dynamics;

Automatic Control; Design, Intelligent Design.

**1. EDUCATION**

BSc: Istanbul Technical University (İTÜ); Mechanical Faculty,

Mechanical Engineering Department, İstanbul/TURKEY;

Graduation in 1984.

MSc: University of Birmingham; Mechanical Engineering Department,

Birmingham / United Kingdom;

Qualified in 1987.

PhD: University of Wales, College of Cardiff (UWCC),

School of Electrical, Electronic and Systems Engineering

Cardiff / United Kingdom;

Qualified in 1990.

**2. PROFESSIONAL EXPERIENCE**

Assist.Prof.: Zonguldak Karaelmas University (ZKÜ); Engineering Faculty,

Mechanical Engineering Department, Zonguldak/TURKEY;

Qualified in 1991.

Assoc.Prof.: Zonguldak Karaelmas University (ZKÜ); Engineering Faculty,

Mechanical Engineering Department, Zonguldak/TURKEY;

Qualified in 1993.

Assoc.Prof.: Marmara University (MÜ), Engineering Faculty;

Mechanical Engineering Department; Istanbul/TURKEY;

Appointed in 1997.

Prof.: Marmara University (MÜ), Engineering Faculty;

Mechanical Engineering Department; Istanbul/TURKEY; Qualified in 1999.

Dean of Economy and Business Administration, International University of

Sarajevo, Bosnia and Herzegovina 2006-2008.

Rector of International University of Sarajevo, Bosnia and Herzegovina 2008-2009.

Head of Mechanical Engineering Department, Marmara University, Engineering Faculty, Istanbul, Turkey, 2009-2010.

Vice Dean of Engineering Faculty, Marmara University, Engineering Faculty, Istanbul, Turkey, 2010-2011.

Dean of Engineering Faculty, Marmara University, Engineering Faculty, Istanbul, Turkey, 2011-2014.

Currently working as:

Chair of Machine Theory, System Dynamics and Control Division., Mechanical

Engineering Department, Engineering Faculty, Marmara University, Istanbul,

Turkey.

**3. COMPLETED RESEARCH PROJECTS**

“Dynamic Modelling and Behaviour Analysis of a Shaft Driven by an Electrical Motor and Connected to an Inertial Damper” in Zonguldak Karaelmas University.

“LEONARDOX: An Intelligent Environment for Designing Systems” in Marmara University.

“Dynamic Modelling and Performance Evaluation of Electrical Bogies Using Multibody Dynamics” supported by TUBITAK 1001, Proc.No:110M561 completed in 2013.

**4. CONSULTING**

Taking place in organizarion committees and editorial boards in various

national and international congress and conferences.

Technical expertise for various companies and courts.

Manegerial supervision for companies on Total Quality Management

**5. TEACHING ACTIVITIES**

Some undergraduate and graduate courses already delivered :

Calculus-I; Calculus-II; Linear Algebra; Differential Equations; Statics; Dynamics; Mechanical Vibrations; System Dynamics; Automatic Control; Industrial Robotics; Principle of Automation; Dynamics of Mechanical Systems; Mechanisms; Artificial Intelligence; Computers and Programming; Advanced System Dynamics and Control; Artificial Intelligent Applications in Engineering; Knowledge Based Design.

6. AWARDS/RECOGNITIONS

Scholarship for graduate study (MSc and PhD) in England by Ministry of

Education of Turkey.

A prize for contribution to education and total quality management activities of

Engineering Faculty given by the Dean.

Patents is received for holding and lifting device given by Turkish

Patent Institute.

Patent is received for a rehabilitation robot given by Turkish Patent Institute

**7. OTHER ACTIVITIES**

* Ex-executive Board Member of The Scouting and Guiding Federation of

Turkey.

* Ex-member of Search and Rescue Team of Scouting Federation.
* Certified person for wireless usage.
* Certified person for first aid activities empowered by Istanbul Municipality.
* Certified person for fire and rescue empowered by Istanbul Municipality.
* Certified person for search and rescue activities empowered by Istanbul Municipality.
* Other similar activities.

**8. SOME SELECTED AND RECENT PUBLICATIONS**

* “DBGRIP: A Learning Expert System for Detailed Selection of Robot Grippers”, International Journal of Production Research, Vol: 29, No: 8, pp: 1549-1563, 1991.
* “CAD of Devices for Gripping Prismatic Components”, Robotica, Vol: 10, pp:226-237, 1992.
* “GRIPPEX: A Hybrid Expert System for Selecting Robot Gripper Types”, International Journal of Machine Tools and Manufacturing, Vol: 32, No: 3, pp: 349-360, 1992.
* “An Expert System for Generating Contact Configurations for Robot Gripper Jaws”, IMech Part D: Journal of Automobile Engineering, Proc. Ins. Mech. Eng. , Vol: 205, pp: 239-244, 1991.
* “An Expert Systems for Selection of Robot Grippers”, Expert Systems with Applications, Vol:5, pp: 239-300, 1992.
* “On the Synthesis of Constaint Systems for Stable Work Holding”, IMechE Part D: Journal of Automobile Engineering, Proc. Ins. Mech. Eng., Vol: 205, pp: 233-237, 1991.
* “Techniques for Intelligent Computer Aided Design”, Chapter I in AI in Design ed. By D.T. Pham, IFS and Springer –Verlag, Bedford and London, pp:1-26, 1990.
* “An Expert System for Selection of Robot End-Effectors”, Proc. of 1st World Congress on Expert Systems, Orlando, Florida, pp: 431-441, 1991.
* “Knowledge Base of an Expert System for Synthesising Constraint Systems to Design Robot Grippers”, 5th Int. Machine Design and Production Conference, pp: 16-18, METU, 1992.
* “Qualitative Analysis of Static and Kinematic Behaviour of Parallel Sided Workpieces Held by a Robot Gripper”, Tr. Journal of Engineering and Environmental Sciences, Vol:16, pp:331-338, 1992
* “Stability and Behaviour of Parallel Sided Workpieces Held by a Robot Gripper”, Tr. Journal of Engineering and Environmental Sciences, Vol:22, pp:55-64, 1998.
* “An Intelligent Traffic Controller: A Prototype Expert System for Controlling A Junction”, National Congress by Turkish Automatic Control Comitee, pp: 655-664, 2002.
* “A Knowledge Base System for Selecting Papid Prototyping Systems”, AYSU-INISTA, YTU, 2004.
* “Intelligent Control of A Robot Manipulator for Knee Rehabilitation”, 5 Th Int. Symposium on Intelligent Manufacturing  Systems, pp: 695-703, May 29-31 , 2006, Sakarya, TURKEY
* “The Impact of Exchange Rates on International Trade in Europe from 1960s till 2000 Using A Modified Gravity Model and Fuzzy Approach”, SOR 07, Slovenia Operations, Research Conference, 26–28 September, 2007.
* “Genetic Coding Application to Synthesis of Planar Mechanisms” 5th International Advanced Technologies Symposium (IATS09), Karabük, 2009.
* "Knee Rehabilitation Using an Intelligent Robotic System”, Journal of Intelligent Manufacturing, Springer Verlag, Vol:20, No:2, pp: 195-202, 2009, DOI:10.1007/s10845-008-0225-y.
* "A Human - Machine Interface Design to Control an Intelligent Rehabilitation Robot System", Soft Computing Applications for Database Technologies, IGI Global Press, 2010.
* “An Efficient Path Planning Strategy for a Snake Robot”, IMS2010: 7th International Symposium on Intelligent Manufacturing Systems, Sarajevo, Bosnia-Herzegovina., September 2010.
* “Intensive Insulin Therapy of Type-1 Diabetes by Fuzzy-Based Controller”, Proc.of 7th Int.Symp. on Intelligent and Manuf. Systems (IMS 2010) , pp:272, Sarajevo, Bosnia Herzegovina, September 15-17, 2010.
* "Applied mathematics analysis of the multibody systems", *American Institute of Physics Conf. Proc., American Institute of Physics*, 978-0-7354-1077-0, 1470, pp. 222-224, 2012 .
* "*Applied Mathematics Analysis of the Multibody Systems"* , ICAAM 2012 First International Conference on Analysis and Applied Mathematics, Gümüşhane University, Turkey, 18-21 October 2012.
* "*Multibody Railway Vehicle Dynamics Using Symbolic Mathematics"* , ICAAM 2012 First International Conference on Analysis and Applied Mathematics, Gümüşhane University, Turkey, 18-21 October, 2012.

"*Analysis of the Differential-Algebraic Equations (DAEs) for Multibody Dynamics"* , Proceedings of the International Conference on Applied Analysis and Algebra, Istanbul, Turkey, June 20-24, 2012.

* “Dynamic Simulation of Wheel Setss for Railway/*Raylı Taşıt Tekerlek Takımının Çoklu Gövdeli Dinamik Benzeşimi* ”, TOK Turkish National Comitee of Automatic Control 2012 National Meeting, Niğde University, Engineering Faculty, Turkey, Ekim 11-13, 2012.
* “Financial Losses in Labour Accidents”, Istanbul Journal of Social Sciences, Winter Issue:6, pp:66-83, ISSN: 2147-3390, 2013.
* Burçin Wallington, Ertuğrul Taçgın, “İş Güvenliği Kültürü Oluşumunda Eğitimin Etkisi”, Safety and Health, March-April, pp:114-129, 2015.
* Emre YALÇIN, Ertuğrul TAÇGIN, “İnşaat Sektörü ve Kazı Uygulamalarında İş Güvenliği Önlemleri”, İnşaat Mühendisleri Odası (İMO) Bursa Bülteni, Sayı:65, Sayfa:9-11, 2016.
* Mustafa Bülbül, Ertuğrul TAÇGIN, “Büyük Nükleer Kazalar Işığında Nükleer Enerji Güvenliği ve Türkiye’nin Nükleer Enerjiye Geçişteki Durumu ve Geleceği”, Türkiye İş Güvenliği İş Adamları Derneği (TİGİAD), 2016.
* Burcu Alınca, Ertuğrul TAÇGIN, “Madencilik Sektörü: İş Kazaları, Meslek Hastalıkları ve Ölüm Oranları”, Türkiye İş Güvenliği İş Adamları Derneği (TİGİAD), 2016.
* Tülay Cinbaş, Ertuğrul TAÇGIN, “Kimya Sektöründe Olası İş Güvenliği Risklerinin Değerlendirilmesi ve Yönetimi”, Türkiye İş Güvenliği İş Adamları Derneği (TİGİAD), sayı:37, sayfa: 84-91, 2016.
* Nazenin GURE, Abdulkerim KAR, Ertuğrul TACGIN, Alper SISMAN and Naser Mahdavi TABATABAEI, “The Chapter A: Hybrid Energy Harvesters (HEHs) and Power Interface – a review”, International Book Chapter in “Energy Harvesting and Energy Efficiency.“ Wiley/Springer, 2016.
* Adem Yaşar, Fatih Alpsoy, Ertuğrul Taçgın, “*Çağrı Merkezlerinin İş Sağlığı ve Güvenliği Açısında Değerlendirilmesi”, Ankara Universitesi Sosyal Bilimler Dergisi, Cilt:7, Sayı:1, Sayfa 1-29, 2016.*
* Faruk Ay, Erturul Taçgın, “Türk Gemi İnşa Sanayindeki İş Kazalarının Yaşanma Nedenleri ve Çözüm Önerileri”, Tershane Dergisi, Temmuz 2016.
* *Ayşenur Erdil, Erturul Taçgın, “Regarding the Sustainable Development Strategies and Perspectives of Consumers on the Lifecyle Time of Products and Service”, Journal of Economics, Business and Management (JOEBM), ISSN: 2301-3567 DOI: 10.18178/JOEBM.*
* *Ayşenur Erdil, Erturul Taçgın, “Regarding the Sustainable Development Strategies and Perspectives of Consumers on the Lifecyle Time of Products and Service”, 3rd International Conference on Innovation in Economics and Busines (ICIEB 2016) February 3-4, 2016; Florence, Italy, 2016.*
* *Ali Çavuş, Erturul Taçgın, “Yapı Sektöründe Yüksekte Çalışma Koşullarında Meydana Gelen İş Kazalarının Neden Sonuç İlişkisinin İncelenmesi”, Akademik Platform Mühendislik ve Fen Bilimleri Dergisi (APJES), Cilt:4, Sayı:2, Sayfa:13-24, 2016.*
* *Peri Naz Turan, Mustafa Turan, Erturul TAÇGIN,”Sağlık Çalışanlarının İş Kazası: Şiddet”, Türk Tabipler Birliği, Mesleki Sağlık ve Güvenlik Dergisi,*ISSN 1302 - 48 – 41, *sayfa:33-38, Eylül 2016.*
* *Cemil Tugaltay, Erturul Taçgın, “Tershanelerde Meydana Gelen Is Kazalari Uzerine Bir Değerlendirme-Bolum1”, Tershane Dergisi, sayfa 24-29, Ocak-Subat 2017.*
* *Nazenin Gure, Abdulkerim Kar, Erturul Tacgin, Alper Sisman, Naser Mahdavi Tabatabaei, “Hybrid Energy Harvester (HEHs)-A Review”, Lecture Notes 37, “Energy Harvesting and Energy Efficiency: Technology, Methods and Applications” edited by Nicu bizon etc., Chapter:2, pages:17-61, Springer International Publishing AG, ISBN 978-3-319-49874-4, ISBN 978-3-319-49875-1 (eBook), DOI 10.1007/978-3-319-49875-1, 2017.*

## *C.Kılıç, E.Taçgın, Coşkun Kiliç, P.A. Fanid, "Şekil Kapalı Sürekli Değişken Çevrim Oranına Sahip Transmisyon Sistemlerinin Kıyaslanması ve Değerlendirilmesi", UMTS 2017, 18. Ulusal Makina Teorisi Sempozyumu, Trabzon, 5-7 Temmuz, 2017*

* *Ayşenur Erdil, Erturul Taçgın,“A Holistic Approach of Sustainability to Economics, Etics, Environment, and Quality of Life Time of Production”, Global Journal of Business, Economics and Management, Vol:07, Issue:1, pp:49-61, 2017.*

**2017 YILINDAKI HAKEMLİKLER:**

* Ferdi Çakıcı and Hakan Yazıcı, “Bir Yolcu Gemisinin Düşey Hareketlerin Azaltılması İçin Optimal Kontrolör Tasarımı” UMTS2017.
* Levent Malgaca and Barış Bıdıklı, “Çok Serbestlik Dereceli Esnek Robot Kolunun İvme Geri Beslemeli Aktif Titreşim Denetimi”, UMTS2017.
* [Özgür Alpan](http://www.alpantech.com/), “İki Tekerlekli Denge Robotunun Matematiksel Modeli ve Doğrusal Kuadratik Kontrolü”, UMTS2017.
* Burak Şişman, Yrd.Doç.Dr and Yavuz Yaman, Yrd..Doç.Dr., “Istanbul Universitesi, Robotik ve Yapay Zeka Oyunları Laboratuvarının Kurulması”, Sonuç Raporu, BAPSIS Proje No:53292, Agustos 2017.
* Li Kangkang, Jiang Hongzhou, Zhanh Hui, "Variable Stiffness Decoupled Design of Redundant Planar Rotational Parallel Mechanisms" submitted to the Journal of Vibration and Control, Manuscript No: JVC-17-0295, 25-Aug-2017.