

## **Asst. Prof. CEM AĐRI DÖNMEZ**

### **Personal Information**

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### **Biography**

Cem is from İstanbul, Turkey. He holds degrees from Turkish University BSc in Physics and from UK Cambridge Anglia Ruskin University a Masters and PhD on Econophysics. He is the leading expert in Quantitative approach analyser impact measurement and optimization. He has been leading teams that build such tools as well as perform exploratory research on Quantitative Econophysical burning questions. He has strong analysing skills also speaks on this topic extensively at statistical as well as conferences and seminar. Additionally, for the past 2 years, he has worked in international student recruitment, promoting Turkish Higher Education and Universities.

Specialities: Fintech and Blockchain solutions, Stock Mechanics; Econophysics and stock market approaches, Financial Statistic analyser, Quantitative and Financial Market analyser, Financial Adviser and clustering strategies.

### **Education Information**

Doctorate, Anglia Ruskin University, Science And Technology, United Kingdom 2009 - 2013

Under Graduate, Çanakkale Onsekiz Mart Üniversitesi, Fen Ve Edebiyat Fakültesi, Fizik Bölümü, Turkey 2003 - 2007

### **Research Areas**

Social Sciences and Humanities, Engineering and Technology

### **Academic Titles / Tasks**

Assistant Professor, Marmara University, Faculty of Engineering, Industrial Engineering, 2014 - Continues

### **Professional Experience**

Erasmus Coordinator, Marmara University, Faculty of Engineering, Industrial Engineering, 2014 - Continues

University Executive Board Member, Marmara University, İnovasyon Ve Teknoloji Transfer Uygulama Ve Araştırma Merkezi, 2016 - 2018

### **Advising Theses**

Dönmez C. Ç. , Generalized Machine Learning Credit Scoring Algorithms for Crowdfunding of SMEs, Doctorate, D.Şen(Student), Continues  
Dönmez C. Ç. , SOFTWARE DEVELOPMENT METHODOLOGY SELECTION WITH RATIONAL MODEL APPROACH AND A NEW SYSTEM DESIGN ON DATABASE: BLOCKCHAIN APPLICATION, Post Graduate, K.ÖNCÜ(Student), Continues  
DÖNMEZ C. Ç. , Development of heuristic optimization methods and experimental simulation design for the components and resources of healthcare, Doctorate, A.ATALAN(Student), 2019  
Dönmez C. Ç. , A SYSTEMATIC PERSPECTIVE ON SUPPLY CHAIN IMPROVEMENT BY USING LEAN SIX SIGMA AND AN IMPLEMENTATION AT A FERTILIZER COMPANY, Post Graduate, B.YAKAR(Student), 2019  
Dönmez C. Ç. , Sennaroğlu B., Siting of a central healthcare waste incinerator using GIS-based multi-criteria decision analysis, Post Graduate, H.ALI(Student), 2017

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

- I. **An Investigation of Fiat Characterization and Evolutionary Dynamics of the Cryptocurrency Market**  
DÖNMEZ C. Ç. , Sen D., Dereli A. F. , Horasan M. B. , Yildiz C., KAPLAN DÖNMEZ N. F.  
SAGE OPEN, vol.11, no.1, 2021 (Journal Indexed in SSCI)
- II. **A Hybrid Bi-level Metaheuristic for Credit Scoring**  
Sen D., DÖNMEZ C. Ç. , Yildirim U. M.  
INFORMATION SYSTEMS FRONTIERS, vol.22, no.5, pp.1009-1019, 2020 (Journal Indexed in SCI)
- III. **Desirability Optimization Models to Create the Global Healthcare Competitiveness Index**  
Donmez N. F. K. , Atalan A., DÖNMEZ C. Ç.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.45, no.8, pp.7065-7076, 2020 (Journal Indexed in SCI)
- IV. **Employment of Emergency Advanced Nurses of Turkey: A Discrete-Event Simulation Application**  
Atalan A., DÖNMEZ C. Ç.  
PROCESSES, vol.7, no.1, 2019 (Journal Indexed in SCI)
- V. **Siting of a central healthcare waste incinerator using GIS-based Multi Criteria Decision Analysis**  
Hariz H. A. , DÖNMEZ C. Ç. , SENNAROĞLU B.  
JOURNAL OF CLEANER PRODUCTION, vol.166, pp.1031-1042, 2017 (Journal Indexed in SCI)
- VI. **Complexity of major UK companies between 2006 and 2010: Hierarchical structure method approach**  
Ulusoy T., KESKİN M., Shirvani A., Deviren B., Kantar E., Doenmez C. Ç.  
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.391, no.21, pp.5121-5131, 2012 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **DEVELOPING OPTIMIZATION MODELS TO EVALUATE HEALTHCARE SYSTEMS**  
Atalan A., Donmez N. F. K. , DÖNMEZ C. Ç.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.2, pp.853-873, 2020 (Journal Indexed in ESCI)
- II. **AN ANALYSIS OF EVOLUTIONARY CRYPTOCURRENCY MARKET DYNAMICS**  
DÖNMEZ C. Ç. , DERELİ A. F. , HORASAN M. B. , YILDIZ Ç.  
Elektronik Sosyal Bilimler Dergisi, vol.19, no.74, pp.611-629, 2020 (Other Refereed National Journals)
- III. **Optimizing experimental simulation design for the emergency departments**  
Atalan A., DÖNMEZ C. Ç.  
BRAZILIAN JOURNAL OF OPERATIONS & PRODUCTION MANAGEMENT, vol.17, no.4, 2020 (Journal Indexed in ESCI)
- IV. **TEDARİK ZİNCİRİ İYİLEŞTİRMESİNE YALIN ALTI SİGMA KULLANIMI İLE SİSTEMATİK BİR YAKLAŞIM VE BİR GÜBRE ŞİRKETİNDE UYGULANMASI**

DÖNMEZ C. Ç. , YAKAR B.

Elektronik Sosyal Bilimler Dergisi, vol.18, no.71, pp.1377-1396, 2019 (Other Refereed National Journals)

- V. **Yüksek-Eğitimli Uzman Hemşire İstihdamı ile Acil Servis Kalitesinin Yükseltilmesi için Simülasyon Uygulaması: Türkiye Sağlık Sistemi**  
ATALAN A., DÖNMEZ C. Ç. , AYAZ ATALAN Y.  
Marmara Fen Bilimleri Dergisi, vol.30, no.4, 2018 (Other Refereed National Journals)
- VI. **Evaluation of Value Capture Strategies for Public Private Partnership Projects in Railway System Projects to be Built in Istanbul City.**  
İNANÇ H., DÖNMEZ C. Ç.  
Marmara Fen Bilimleri Dergisi, vol.30, no.3, pp.286-298, 2018 (Other Refereed National Journals)
- VII. **EKONOFİZİK YAKLAŞIMI İLE KENTSEL REKABETÇİLİK İNDEKSİNİN OLUŞTURULMASI**  
DÖNMEZ C. Ç. , ATALAN A.  
Elektronik Sosyal Bilimler Dergisi, vol.17, no.66, pp.206-217, 2018 (Other Refereed National Journals)
- VIII. **ENDÜSTRİ SEKTÖRLERİNİN EKONOFİZİK AÇIDAN KÜMELENME ANALİZİ: TÜRKİYE UYGULAMASI**  
DÖNMEZ C. Ç. , HOPALI E., Hamal S.  
Elektronik Sosyal Bilimler Dergisi, vol.16, no.63, pp.1081-1091, 2017 (Other Refereed National Journals)
- IX. **ENDÜSTRİYEL KÜMELENME UYGULAMALARININ DÜNYA GENELİNDE İNCELENMESİ: Tarım, Sanayi ve Hizmet Sektörleri Açısından Bir Değerlendirme**  
ERASLAN İ., DÖNMEZ C. Ç.  
Elektronik Sosyal Bilimler Dergisi, vol.16, no.62, pp.719-755, 2017 (Other Refereed National Journals)
- X. **ENDÜSTRİYEL KÜMELENME UYGULAMALARININ TÜRKİYE GENELİNDE İNCELENMESİ: Sanayi, Tarım ve Hizmet Sektörleri Açısından Bir Değerlendirme**  
ERASLAN İ., DÖNMEZ C. Ç.  
Elektronik Sosyal Bilimler Dergisi, vol.16, no.61, pp.325, 2017 (Other Refereed National Journals)
- XI. **FINANCIAL MARKET FLUCTUATIONS IN ECONOPHYSICS: FTSE, DJIA and BIST-100**  
DÖNMEZ C. Ç. , ULUSOY T.  
International Journal of Business and Management Study, vol.2, no.2, pp.385-391, 2015 (Refereed Journals of Other Institutions)
- XII. **Kümelenme Yapılanmalarının Önemi Makro Mezo ve Mikro Düzeyde Bir Değerlendirme**  
ERASLAN İ., DÖNMEZ C. Ç.  
Bartın Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.6, no.11, pp.67-106, 2015 (Refereed Journals of Other Institutions)
- XIII. **KÜMELENME YAKLAŞIMININ KAVRAMSAL TANIMI: SİSTEM VE SİSTEMLERİN İŞLEYİŞİ AÇISINDAN BİR DEĞERLENDİRME**  
ERASLAN İ., DÖNMEZ C. Ç. , YÜKSEL A.  
Bingöl Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, vol.5, no.9, pp.1-52, 2015 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **FİNANS SEKTÖRÜ ve EKONOMİK GELİŞME: Ekonofizik Açından Rekabetçilik Analizi**  
DÖNMEZ C. Ç.  
Ekin Yayınevi, Bursa, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **BLOCKCHAIN ENTEGRASYONU İLE GELECEKTEKİ DİJİTAL TEDARİK ZİNCİRİ YÖNETİMİNE GİRİŞ**  
DÖNMEZ C. Ç. , Ünlü İ.  
INTERNATIONAL CONGRESS OF MANAGEMENT ECONOMY AND POLICY, İstanbul, Turkey, 20 - 21 April 2019, pp.1-

- II. **TURİZM ENDÜSTRİSİNE ALTERNATİF BİR FIRSAT YAKLAŞIMI OLARAK BLOCKCHAIN TEKNOLOJİSİNİN KULLANILMASI**  
 ULUSOY T., DÖNMEZ C. Ç.  
 4th International Turkic Tourism Symposium, Kastamonu, Turkey, 19 - 21 July 2018
- III. **Kinetic Theory and Boltzmann Equation of Pricing Cryptocurrencies Approach**  
 DÖNMEZ C. Ç. , ULUSOY T.  
 International Conference on Multidisciplinary Sciences, İstanbul, Turkey, 15 - 16 December 2018
- IV. **Desirability Index with Sector Analysis for Investment Decisions by Bernoulli Theorem: A Case of FTSE-100**  
 DÖNMEZ C. Ç. , ŞEN D.  
 International Conference on Computational Materials Science and Thermodynamic Systems (CMST 2018), Cambridge, Canada, 22 - 23 March 2018, vol.1, pp.151-160
- V. **Blockchain: Dünü - Bugünü - Yarını**  
 DÖNMEZ C. Ç.  
 Blockchain Summit Istanbul, Turkey, 23 - 24 November 2017
- VI. **Blockchain Introduction: Yesterday - Today and Tomorrow**  
 DÖNMEZ C. Ç.  
 IDC Financial Services Conference 2017, İstanbul, Turkey, 21 - 22 November 2017
- VII. **The Incoming Paradigm Shift with Globalization and Clustering Approach**  
 Eraslan I. H. , DÖNMEZ C. Ç. , Akgul M. K.  
 12th International Strategic Management Conference (ISMC), Antalya, Turkey, 28 - 30 October 2016, vol.235, pp.101-109
- VIII. **Financial Market Fluctuations in Econophysics: FTSE, DJIA BIST-100**  
 DÖNMEZ C. Ç. , ULUSOY T.  
 Third international Conference on Advances in Computing, Communication and Information Technology- CCIT, Birmingham, England, 26 - 27 May 2015, pp.104-110
- IX. **Complexity of Predictive Market Fluctuations in Econophysics FTSE DJIA BIST 100**  
 DÖNMEZ C. Ç. , ULUSOY T.  
 International Conference on Value Chain Sustainability, İstanbul, Turkey, 12 - 13 March 2015, pp.106-125
- X. **IN THE DESIGN PROCESS DESIGN FOR RE MANUFACTURE DfRem**  
 DÖNMEZ C. Ç. , Rosalba P.  
 International Conference on Value Chain Sustainability, İstanbul, Turkey, 12 - 13 March 2015, pp.126-140
- XI. **Quantum formulations of Predictive Stock Market Fluctuations in Econophysics The Case of FTSE DJIA ISE**  
 ULUSOY T., Shirvani A., DÖNMEZ C. Ç.  
 International Journal of Arts Sciences, Cambridge, Canada, 27 - 31 May 2012
- XII. **FTSE and DJIA index comparisons using the factors of index temperature and Bose Einstein Entropy**  
 ULUSOY T., DÖNMEZ C. Ç.  
 Annual Conference on Innovations in Business Management, Londrina, Brazil, 26 - 27 January 2011, vol.1, pp.10-21
- XIII. **İstatistik Fizik Mekanikleri Kullanılarak İMKB de Fiyat Oluşumları Ekonofizik Uygulaması**  
 ULUSOY T., DÖNMEZ C. Ç.  
 12.ULUSLARARASI EKONOMETRİ, YONEYLEM ARASTIRMASIVE İSTATİSTİK SEMPOZYUMU, 26 - 29 May 2011

## Supported Projects

Dönmez C. Ç. , Atalan A., Project Supported by Higher Education Institutions, Mekanizma Tasarım Yaklaşımı Kullanılarak Sağlık Sistemleri Bileşenleri Arasındaki Finansal İlişkiler için Sezgisel Yöntemlerin Geliştirilmesi, 2018 - 2020  
 Dönmez C. Ç. , Eraslan İ. H. , Municipality, İSTANBUL İL BÜTÜNÜ İÇİN KENTSEL DÖNÜŞÜM PERSPEKTİFİYLE

HAZIRLANACAK PLANLARA ALTLIK TEŞKİL EDECEK ANALİTİK VERİ EKONOMİK YAPI ANALİZLERİNİN YAPILMASINA DAİR HİZMET HAZIRLAMA PROJESİ, 2016 - 2016

Dönmez C. Ç. , Eraslan İ. H. , CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, DAP Bölgesi Büyükbaş ve Küçükbaş Hayvancılık Yatırım Havzaları Master Planı, 2016 - 2016

Dönmez C. Ç. , Eraslan İ. H. , Chamber / Union / Professional Association, Bingöl Sanayi Sektörü Mevcut Durum Analizi ve Stratejik Vizyonu, 2015 - 2016

Dönmez C. Ç. , Eraslan İ. H. , CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, KOBİ LERİN VERİMLİLİK SORUNLARININ BELİRLENMESİ VE ÇÖZÜM ÖNERİLERİNİN GELİŞTİRİLMESİ PROJESİ, 2015 - 2015

## Scientific Refereeing

JOURNAL OF CLEANER PRODUCTION, Journal Indexed in SCI-E, June 2018

JOURNAL OF CLEANER PRODUCTION, Journal Indexed in SCI-E, June 2017

PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, SCI Journal, December 2015

## Citations

Total Citations (WOS):34

h-index (WOS):2