GAZANFER ÜNAL
PROFESSOR

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Education

PhD İSTANBUL TECHNICAL UNIVERSİTY 1988-91
FEN-EDEBİYAT FAKÜLTESİ/MÜHENDİSLİK BİLİMLERİ BÖLÜMÜ/UYGULAMALI MEKANİK ANABİLİM DALI
DISSERTATION TITLE: A Group Theoretical Approach to Turbulence Advisor (Prof. Erdoðan Süleyman Şuhubi)
MSc : Naval Postgraduate School USA 1984-86
Physics
DISSERTATION TITLE:: Microscopic measurements of BaTiO3 contributing to phase conjugation Advisor :(Prof. Donald Walters)
UNDERGRADUATE: DENİZ HARP OKULU KOMUTANLIĞI 1976-1980 DENİZ BİLİMLERİ ENSTİTÜSÜ

Academic Positions

PROFESSOR 2018
BAHÇEŞEHİR ÜNİVERSİTESİ/İKTİSADİ, İDARİ VE SOSYAL BİLİMLER FAKÜLTESİ/İŞLETME BÖLÜMÜ/İŞLETME PR. (İNGİLİZCE) (TAM BURSLU))
PROFESSOR 2006-2018
YEDİTEPE ÜNİVERSİTESİ/TİCARİ BİLİMLER FAKÜLTESİ/YÖNETİM BİLİŞİM SİSTEMLERİ BÖLÜMÜ)
PROFESSOR 2001-2006
İSTANBUL TEKNİK ÜNİVERSİTESİ/FEN-EDEBİYAT FAKÜLTESİ/MÜHENDİSLİK BİLİMLERİ BÖLÜMÜ/UYGULAMALI MEKANİK ANABİLİM DALI)
ASSOCIATE PROFESSOR 1994-2001
İSTANBUL TEKNİK ÜNİVERSİTESİ/FEN-EDEBİYAT FAKÜLTESİ/MÜHENDİSLİK BİLİMLERİ BÖLÜMÜ/UYGULAMALI MEKANİK ANABİLİM DALI)
ASSISTANT PROFESSOR 1991-1994
İSTANBUL TEKNİK ÜNİVERSİTESİ/FEN-EDEBİYAT FAKÜLTESİ/MÜHENDİSLİK BİLİMLERİ BÖLÜMÜ/UYGULAMALI MEKANİK ANABİLİM DALI)

Thesis Advisor

MSc

1. SARI ÇİĞDEM, (2016). Wavelet denoising and detrending analysis of gold prices and usd/try exchange rates, Yeditepe Üniversitesi->Sosyal Bilimler Enstitüsü->Finansal İktisat Anabilim Dalı

2. BLACK JON, (2010). Stokastik modellemesi: İstanbul Menkul Kıymetler Borsası'nın XBANK -Endeksi veU.S. WTI petrol fiyatlar, Yeditepe Üniversitesi->Sosyal Bilimler Enstitüsü->Finans Anabilim Dalı

3. TERZİ FELEKNAZ DİLEK, (2009). Feynman-kac theorem and its applications, Yeditepe Üniversitesi->FenBilimleri Enstitüsü->Matematik Anabilim Dalı

4. KÜÇÜKURAL ALPER, (2004). Veri madenciliğinin bulanık uzman sistemlerde kullanımı, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

5. ERTANIŞ ERDİNÇ FADIL, (2003). İlişkisel veri tabanı sistemlerinde fonksiyonel ve dereceli bulanık ilişkisorgulama aracı, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

6.OKÇU SEMRA, (2003). Bulanık kümelerin veri madenciliğine uygulanması, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

7. GÜNAL ATİLLA, (2003). Pasif algılayıcı verisi birleştirme ve tehdit değerlendirme, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

8. KEKEVİ İBRAHİM ŞAHİN, (2002). Web servis mimarisinin bir uygulaması, İstanbul Teknik Üniversitesi- >Fen Bilimleri Enstitüsü->Diğer

9. AKKUŞ CEM, (2000). İlişkisel veritabanları üzerinde bulanık sorgulama aracı, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

10. TUTAR CEM, (2000). Veri tabanından bilgi tabanına geçişte bulanık bir araç, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

11. ERKAN ÖZDEN, (2000). Sürekli sistem benzetimi ve diferansiyel denklemler için etkileşimli internet ortamında bir veritabanı yöneticisi, İstanbul Teknik Üniversitesi->Fen Bilimleri

12. ÖZAYÇA ELİZABETH CARUANA, (2000). Oracle 8.0.4 veritabanının bir muhasebe modeli uygulaması içindeğerlendirilmesi, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

13. ASAR BAHADIR, (1999). Standart veritabanı sistemlerinde bulanık küme yaklaşımı ile esnek sorgulama, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

14. KIRIŞ AHMET, (1999). Tek serbestlik dereceli lineer olmayan salınıcıların yaklaşık simetrileri ve ilkintegralleri, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

15. YONAR YUSUF BARBAROS, (1999). Genel amaçlı bir bulanık uzman sistem, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

16. BİRLİK MEHMET, (1998). Bir arıza giderme uzman sistem kabuğu (AGUSK) ve CFM56 turbofan jet motor arızaları için bir uygulama, İstanbul Teknik Üniversitesi->Fen Bilimleri

17. MURATOĞLU ERZA, (1998). Bulanık çıkarım yöntemleri, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

18. ALTUNKÖK BUKET, (1998). Access 2.0 ile bir veritabanı uygulaması: Faturalama sistemi, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

19. NAZLICA UMUT, (1997). İlişkisel veri tabanı mantığına dayalı sigorta otomasyonu, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

20. MUTLU TANER, (1996). Bulanık olmayan veritabanı sistemleri için bir bulanık sorgulama aracı, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

21. DEMİRCİ AYHAN, (1996). Tıpta uygulamalar için bir karatahta modeli, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

22. KÖŞKER REŞAT, (1995). Helmholtz salınıcısının rezonans durumlarında dallanma analizi, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

23. DENİZ NECİBE, (1995). Dempster-Shafer teorisinin değerlendirme problemine uygulanması, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

24. SARIBIK HAKAN, (1995). Bir bulanık uzman sistem kabuk prototipi, İstanbul Teknik Üniversitesi->Fen Bilimleri Enstitüsü->Diğer

Phd

25.YILMAZ ADİL (2020) ADVANCED NONLINEAR AND NONSTATIONARY METHODS FOR THE ANALYSIS OF FINANCIAL TIME SERIES Yeditepe Üniversitesi->Sosyal Bilimler Enstitüsü->Finansal İktisat Anabilim Dalı

26.DEMIREL MUSTAFA (2020) , ESSAYS ON MULTIFRACTAL FEATURES OF EMERGING MARKET BONDS AND RELATED MODELS, Yeditepe Üniversitesi->Sosyal Bilimler Enstitüsü->Finansal İktisat Anabilim Dalı

27. EMRAH ORAL (2019) Development of New Forecasting Strategies using Wavelet Transform (WT), Multiple Wavelet Coherence (MWC) and Multi-Fractal De-trended Fluctuation Analysis (MFDFA) Yeditepe Üniversitesi->Sosyal Bilimler Enstitüsü->Finansal İktisat Anabilim Dalı

28.GÜLERCE MUSTAFA, (2018). Identification of increasing relationships between time series by wavelet coherency method and comparison of arma & varma among forecasting methods, Yeditepe Üniversitesi->Sosyal Bilimler Enstitüsü->Finansal İktisat Anabilim Dalı

29. GENÇER MURAT, (2017). Essays on the price behaviours of energy commodities (Chaos, fractality,wavelet and non-linearity), Yeditepe Üniversitesi->Sosyal Bilimler Enstitüsü->Finansal İktisat Anabilim Dalı

30. BAYRACI SELÇUK, (2015). Time series analysis of the interest rate dynamics with the stochastic, econometric and econophysics models, Yeditepe Üniversitesi->Sosyal Bilimler Enstitüsü->Finansal İktisat Anabilim Dalı

Tasks in research projects :

1. NSF INT 0217453 US Turkey Cooperative research program Semi Analytical treatments of Nonlinear Stochastic Dynamical Systems with Application to Control Problems 2002 2005 ,

Director of Turkish side, (2002-2005)

2. Kaotik davranışın analizi, TÜBİTAK PROJESİ, Researcher, 1993-1995 (ULUSAL)

3. Uzun Ufuk projesi, TÜBİTAK PROJESİ, Researcher, 1991-1993 (ULUSAL)

Administrative Positions

Department Head: İSTANBUL TEKNİK ÜNİVERSİTESİ/FEN-EDEBİYAT FAKÜLTESİ/MÜHENDİSLİK BİLİMLERİ BÖLÜMÜ 2004-2006

Dean: CELÂL BAYAR ÜNİVERSİTESİ/MÜHENDİSLİK FAKÜLTESİ 2004-2004

Research Awards

1. Bilim Teknoloji, İSTANBUL TEKNİK ÜNİVERSİTESİ VAKFI, 2001
2. Sedat Simavi Vakfı Fen Bilimleri, Sedat Simavi Vakfı, 1997

Publications

Publications in refereed international journals:

YILMAZ ADİL, ÜNAL GAZANFER (2020) Multiscale Higuchi's fractal dimension method, Nonlinear Dynamics (Accepted in july).

OYGUR TUNC, ÜNAL GAZANFER (2020) Traces of the Multifractal Nature of the Financial Crises in Turkey: Co-Movement of the Hölder Exponents and Large-Scale Forecast ,Fluctuation and Noise Letters, Doi 2050029

YILMAZ ADİL, ÜNAL GAZANFER (2020) Multiscale correlation dimension method, International Journal of Modern Physics C (IJMPC) 31 (03), 1-17

ORAL EMRAH, ÜNAL GAZANFER (2019), Modeling and forecasting time series of precious metals: a new approach to multifractal data, Financial Innovation 5 (1), 3, 2 , 2199-4730

YILMAZ ADİL, ÜNAL GAZANFER (2019) Stochastic Duffing equation in modelling of financial time series, International Journal of Dynamics and Control 7 (4), 1173-1194 doi.org/10.1007/

DOĞANGÜN ITIR, ÜNAL GAZANFER, (2019). Multifractal Behavior in Precious Metals: Wavelet Coherency and Forecasting by VARIMA and V-FARIMA Models,. Annals Of Financial Economics,13(04) (Yayın No: 4550346)

ÜNAL GAZANFER,ORAL EMRAH (2018). Modeling and forecasting multifractal wavelet scale: Western market versus eastern market. International Journal of Modern Physics C, Doi:.1142/ (Yayın No: 4464339)

GÜLERCE MUSTAFA,ÜNAL GAZANFER (2018). Electricity price forecasting using multiple wavelet coherence method: Comparison of ARMA versus VARMA. International Journal of Financial Engineering, 5(1), Doi: 10.1142/ (Yayın No: 4464285)

İYİGÜNLER İSMAİL, ÜNAL GAZANFER,ÇAĞLAR MİNE, (2018). Exact Solvability of Stochastic Differential Equations Driven by Finite Activity Levy Processes.. . Mathematical and Computational Applications, 17(1), Doi: 10.3390 (Yayın No: 4551094)

ÜNAL GAZANFER,YILDIRIM YAVUZ (2018). Volatility Modeling With COGARCH(1,1) driven by Meixner-Lévy Process: An Application to Tokyo Stock Exchange Market (Nikkei225).

International Journal of Dynamics and Control, 6(2), Doi: 10.1007 (Yayın No:4467886)

OYGUR TUNC , ÜNAL GAZANFER, (2017). THE LARGE FLUCTUATIONS OF THE STOCK RETURN AND FINANCIAL CRISES EVIDENCE FROM TURKEY: USING WAVELET COHERENCY AND VARMA MODELING TO FORECAST STOCK RETURN. Fluctuation and Noise Letters (Yayın No: 4464210)

ORAL EMRAH, ÜNAL GAZANFER (2017). Dynamic correlation of eastern and western markets and forecasting: Scale by scale wavelet based approach. International Journal of Financial

Engineering, 4(4), Doi: 10.1142/S2424786317500402 (Yayın No: 4467866)

ORAL EMRAH, ÜNAL GAZANFER(2017). Co-movement of precious metals and forecasting using scale by scale wavelet transform. International Journal of Financial Engineering, 4(1), Doi:

10.1142/ (Yayın No: 4464175)

YILMAZ ADİL,ÜNAL GAZANFER, KARATAŞ CENGİZ (2017). Co-movement and Forecasting Analysis of Major Real Estate Markets by Wavelet Coherence and Multiple Wavelet Coherence. Chinese Journal of Urban and Environmental Studies, 5(2), Doi: 10.1142 (Yayın No:4467852)

GÜLERCE MUSTAFA,ÜNAL GAZANFER (2017). FORECASTING OF OIL AND AGRICULTURAL COMMODITY PRICES: VARMA VERSUS ARMA. Annals of Financial Economics, 12(3), Doi:

10.1142/ (Yayın No: 4464245)

YILMAZ ADİL , ÜNAL GAZANFER,(2016). TESTING NON-LINEAR DYNAMICS, LONG MEMORY AND CHAOTIC BEHAVIOUR OF ENERGY COMMODITIES. Theoretical and Practical Research in Economic Fields, 7(2) (Yayın No: 4464098)

YILMAZ ADİL, ÜNAL GAZANFER, (2016). Co-movement analysis of Asian stock markets against FTSE100 and SP 500: Wavelet-based approach.. International Journal of Financial Engineering,12, Doi: 10.1142/S242478631650033X (Yayın No: 4464148)

YILMAZ ADİL,ÜNAL GAZANFER (2016).) Chaoticity Properties of Fractionally Integrated Generalized Autoregressive Conditional Heteroskedastic Processes.. Bulletin of Mathematical

Sciences and Applications, 15(1), Doi: DOI:10.18052 (Yayın No: 4464066)

GÜLERCE MUSTAFA, ÜNAL GAZANFER, (2016). USING WAVELET ANALYSIS TO UNCOVER THE COMOVEMENT BEHAVIOR OF MULTIPLE ENERGY COMMODITY PRICES. International Journal of Wavelets, Multiresolution and Information Processing, Doi: 10.1142/ (Yayın No: 4463900)

YILMAZ ADİL,KARATAŞ CENGİZ,ÜNAL GAZANFER (2016). Wavelet Based Analysis of Major Real Estate Markets. Journal of Advanced Studies in Finance, 7(2), 107-116. (Yayın No: 4464131)

GENCER MURAT,ÜNAL GAZANFER (2016). CHAOS IN FRACTIONALLY INTEGRATED ASYMMETRIC POWER AUTOREGRESSIVE CONDITIONAL HETEROSKEDASTIC (FIAPARCH) PROCESSES. Ilirias Journal of Mathematics, 5(1), 21-31. (Yayın No: 4464037)

ÜNAL GAZANFER (2015). Stochastic symmetries of Wick type stochastic ordinary differential equations. 01/2015 38:1560079.. International Journal of

Modern Physics:Conference Series,

38(1560079), Doi: 10.1142/S2010194515600794 (Yayın No: 4463873)

ÜNAL GAZANFER (2014). Explicit solution pocesses for nonlinear dimensional jump diffusion equations. Journal of Nonlinear Mathematical Physics , 17(3), 1-12. (Yayın No: 749039)

ÜNAL GAZANFER (2014). Lie groups in turbulence. Lie Groups and Their Applications, 1(2), 98 (Yayın No: 760436)

BAYRACI SELCUK,ÜNAL GAZANFER (2014). Stochastic interest rate volatility modeling with a continuous time GARCH (1,1) model. Journal of Computational and Applied Mathematics, 259, 464-473. (Yayın No: 639716)

TERZİ FDİLEK, ÜNAL GAZANFER, (2013). MULTIFRACTAL BEHAVIOUR IN GOLD PRICES BY USING MF DFAAND WTMM METHODS. INTERNATIONAL JOURNAL OF ECONOMICS AND FINANCE STUDIES, 15(1), 108-118. (Yayın No: 769447)

GÜLBAŞ EZGİ, ÜNAL GAZANFER, (2013). MULTIFRACTAL ANALYSIS OF THE DYNAMICS OF TURKISHEXCHANGE RATE. INTERNATIONAL JOURNAL OF ECONOMICS AND FINANCE STUDIES, 15(1), 98-107. (Yayın No: 769578)

AYTEN KEMAL, ÜNAL GAZANFER, (2013). MULTIFRACTAL BEHAVIOUR IN OIL PRICES BY USING MF DFA AND WTMM METHODS. INTERNATIONAL JOURNAL OF ECONOMICS AND FINANCE STUDIES, 15(1), 213-224. (Yayın No: 769256)

TAŞ CUMHUR, ÜNAL GAZANFER, (2013). MULTIFRACTAL BEHAVIOUR IN NATURAL GAS PRICES BY USINGMF DFA AND WTMM METHODS. INTERNATIONAL JOURNAL OF ECONOMICS AND FINANCE STUDIES, 15(1), 44 (Yayın No: 769758)

ÖZDEN ALİ ERİNÇ ÜNAL GAZANFER, (2013). Linearization of second-order jump-diffusion equations. International. Journal of Dynamics and Control, 1(1), 60-63. (Yayın No: 4463998)

ALISVERISCI F, ;ÜNAL GAZANFER (2012). Nonlinear Response of Vibrational Conveyers with Nonideal Vibration Exciter Primary Resonance. Nonlinear Dynamics, 69, 1611-1619. (Yayın No: 748169)

ALISVERISCI F, ÜNAL GAZANFER (2012). Nonlinear Response of Vibrational Conveyers with Nonideal Vibration Exciter Superharmonic and Subharmonic Resonance. Mathematical Problems in Engineering

KAHRAMAN EMRE,ÜNAL GAZANFER (2012). STEEL PRICE MODELLING WITH LEVY PROCESS. International Journal of Economics and Finance Studies, 4(1) (Yayın No: 4551267)

GENCER MURAT, ÜNAL GAZANFER, (2012). CRUDE OIL PRICE MODELLING WITH LEVY PROCESS. International Journal of Economics and Finance Studies, 4(2), 139-148. (Yayın No: 748505)

YÜCEL SERHAT, ÜNAL GAZANFER, (2012). MORTALITY MODELING WITH LEVY PROCESSES. International Journal of Economics and Finance Studies„ 4(2), 119-128. (Yayın No: 748704)

YILDIRIM YAVUZ i ÜNAL GAZANFER,(2011). Modeling ISE100 with continuous AR 1 model. International Journal of Economics and Finance Studies, 3(1), 421-430. (Yayın No: 748879)

BAYRACI SELÇUK , ÜNAL GAZANFER,(2011). Continuous time GARCH modeling of Turkish interest rates. International Journal of Economics and Finance Studies, 3, 199-208. (Yayın No: 748790)

ARI YAKUP, ÜNAL GAZANFER, (2011). Continuous modeling of foreign exchange rate of USD versus TRY. International Journal of Economics and Finance Studies,, 3(1), 251-261. (Yayın No: 748936)

ÜNAL GAZANFER (2008). Exact linearization of one dimensional jump diffusion stochastic differential equations. Nonlinear Dynamics, 51(1), 1-8. (Yayın No: 749280)

DINLER ALI ,ÜNAL GAZANFER (2008). Exact linearization of Ito equations driven by fBm. Nonlinear Dynamics 53, 251-259. (Yayın No: 749224)

ÜNAL GAZANFER, SUN JQ (2008). New exact solutions to the Fokker Planck Kolmogorov Equation. Communications in Nonlinear Science and Numerical Experiments, 13, 2051-2059. (Yayın No:749178)

ÜNAL GAZANFER (2008). Exact time dependent solutions to 1+1 Fokker Planck equation via linearizing transformation of Ito equations. Journal of Nonlinear Mathematical Physics, 15, 211-

221. (Yayın No: 749120)

ÜNAL GAZANFER (2007). Approximate first integrals of a chaotic Hamiltonian system. Quastionaes Mathematicae, 30(1), 483-497. (Yayın No: 758243)

ÜNAL GAZANFER (2007). Linearization of one dimensional nonautonomous jump diffusion stochastic differential equations. Journal of Nonlinear Mathematical Physics, 14(3), 422-434.

(Yayın No: 758151)

ÜNAL GAZANFER , KHALIQUE MC (2005). Approximate first integrals of the Hénon Heiles system revisited 10 1 73 83. Communications in Nonlinear Science and Numerical Experiments, 10, 73-83. (Yayın No:758423)

ÜNAL GAZANFER, KHALIQUE MC (2005). Approximate conserved quantities ofconservative dynamical systems in R3. Quasıtonaes Mathematicae, 28(3), 305-315. (Yayın No: 758330)

SUN, JQ , ÜNAL GAZANFER (2005). 2005 A semi discretization method for delayed stochastic systems 10 1 85 94. Communications in Nonlinear Science and Numerical Experiments,, 10(1), 85-94. (Yayın No: 758550)

ÜNAL GAZANFER, IBRAGIMOV NAIL (2004). Approximate symmetries and conservation laws for Ito and Stratonovich dynamical systems. Journal of Mathematical Analysis and Applications, 297, 152-168. (Yayın No: 758665)

ÜNAL GAZANFER (2004). Stochastic differential systems Approximate symmetries and conservation laws for. Achives of ALGA, 1, 91-112. (Yayın No: 758760)

ÜNAL GAZANFER (2004). Symmetries and conserved quantities of stochastic dynamical control systems. Nonlinear Dynamics, 26(4), 309-329. (Yayın No: 758850)

ÜNAL GAZANFER (2003). Symmetries of Ito and Stratonovich dynamical systems and their conserved quantities. Nonlinear Dynamics, 32, 417-426.

(Yayın No: 758955)

ÜNAL GAZANFER (2003). Approximate first integrals of a Hamiltonian system with two degrees of freedom. Mathematical and Computational Applications, 8(2), 151-158. (Yayın No: 759138)

,Khabirov SV, ÜNAL GAZANFER (2002). Group analysis of Karman Howarth equation Part I Submodels. Communications in Nonlinear Science and Numerical Experiments, 7(2), 3-18. (Yayın No: 759269)

GORALI G, ÜNAL GAZANFER (2002). Approximate first integrals of a galaxy model. Nonlinear Dynamics, 28(2), 195-211. (Yayın No: 759331)

Khabirov SV, ÜNAL GAZANFER (2002). Group analysis of the von Kármán–Howarth equation. Part II. Physical invariant solutions. Communications in Nonlinear Science and Numerical Simulation, 7(1), 19-30., Doi: 10.1016/S1007-5704(02)00012-6 (Yayın No: 4550532)

ÜNAL GAZANFER (2001). Approximate first integrals of weakly nonlinear damped driven oscillators with one degree of freedom. Nonlinear Dynamics, 26(4), 309-329. (Yayın No: 759411)

ÜNAL GAZANFER (2000). Approximate generalized symmetries normal forms and approximate first integrals. Physics Letters A, 266, 106-122. (Yayın No: 759487)

ÜNAL GAZANFER (2000). Periodic solutions and approximate symmetries. Nonlinear Dynamics, 22(1), 103-112. (Yayın No: 759551)

ÜNAL GAZANFER (1999). Approximate first integrals of nonlinear oscillators with one degree of freedom. ARI - An International Journal for Physical and Engineering Sciences, 51, 258-267.

(Yayın No: 759963)

MAHOMED F, KARA AH, ÜNAL GAZANFER (1999). Approximate symmetries and conservation laws with applications. International Journal of Theoretical Physics, 38(9), 2389-2400. (Yayın No: 759623)

ÜNAL GAZANFER (1999). Algebraic integrability and generalized symmetries of dynamical systems. Physics Letters A, 260, 352-359., Doi: 10.1016/S0375-9601(99)00531-9 (Yayın No:

759684)

ÜNAL GAZANFER (1997). Probability density functions the rate of entropy change and symmetries of dynamical systems. Physics Letters A, 233, 193-202. (Yayın No: 760027)

ÜNAL GAZANFER (1996). Symmetries integrating factors and Nambu mechanics. Physics Letters A, 223, 355-358. (Yayın No: 760105)

ÜNAL GAZANFER (1994). Application of equivalence transformations to inertial range of turbulence 1 1 232. Lie Groups and Their Applications, 1(1), 232 (Yayın No: 760377)

ÜNAL GAZANFER, SEFIK B (1994). Travelling waves exhibiting spatio temporal chaos on the surface of a vertically falling thin film. International Journal of Engineering Science, 32(5), 721-742. (Yayın No: 760316)

ÜNAL GAZANFER , SUHUBI ES(1994). Principal resonances local integrability and chaos in the Kolmogorov Spiegel Sivashinsky equation 30 3 455

472. International Journal of Engineering Science, 30(3), 455-472. (Yayın No: 760253)

ÜNAL GAZANFER (1992). Travelling waves and chaos in the Kolmogorov Spiegel Sivashinsky model. International Journal of Engineering Science, 30(5), 593-610. (Yayın No: 760629)

ÜNAL GAZANFER (1992). A local analysis of the Kolmogorov Spiegel Sivashinsky equation. International Journal of Engineering Science, 30(5), 579-592. (Yayın No: 760570)

B. Publications in proceedings of international scientific conferences :

ÜNAL GAZANFER (2006). Fokker Planck Kolmogorov equations for fBm Derivation and Analytical solutions. Proceedings of 12th conference on Mathematical Physics 2006, 53-61.

ÜNAL GAZANFER (2002), "Symmetries of stochastic dynamical systems,and Kolmogorov backward and forward equations" 16th conference on Nonlinear Acoustics (Modern group analysis 9) Moscow state univ., Moscow-Russia.

ÜNAL GAZANFER (2000), "Approximate first integrals of weakly nonlinear, damped-driven oscillators with one degree of freedom", Eighth Conference on Nonlinear Vibrations, Stability, and Dynamics of Structures, Virginia-Tech, Blacksburg, Virginia-USA.

ÜNAL GAZANFER ,(1998), "Bayen-Flato Mechanics and symmetries of dynamical systems, Proc. Of the Ninth International Symposium on Continuum models and Discrete systems 29 June- 3 july, Istanbul, World Scientific, 421, (Eds. K.Z. Markov, E. Inan).

S.V: Khabirov and ÜNAL GAZANFER, (1998), ibid , 570

S.V: Khabirov and ÜNAL GAZANFER (1998), Submodels of isotropic turbulence, Proc. Of Interdisciplinary workshops on Symmetry Analysis and Mathematical Modeling, 8-10 December, Mmabtho-Pretoria , South Africa, ISAMM, 86 (Ed. N. H. Ibragimov).

ÜNAL GAZANFER (1997), Constitutive equation of turbulence and the scaling group of Navier-Stokes equations, Proc. Of International Conference on Group Analysis VII, 30 june- 5 july, Nordfjordeid-Norway, Mars Publishers, 317 (Eds. N. H. Ibragimov, K. R: Naqvi and E. Straume).

ÜNAL GAZANFER (1995), Equivalence transformations of the Navier-Stokes equations and the inertial range of turbulence, Proc. Of the Eigth International Symposium on Continuum models and Discrete Systems 11-16 June, Varna-Bulgaria, World Scientific, 480 (Ed. K.Z. Markov).

C. National/International books or chapters in books:

C2. **Chapters in National/International** :

CRC Handbook of Lie group analysis of differential equations volume 2, Bölüm adı:(Application of equivalence transformations to inertial subrange of turbulence,) (1995)., ÜNAL GAZANFER,

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