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EDUCATIONAL INFORMATION

Degree	University	Department	Year(s)
Doctoral Degree	Gazi University	Statistics	2010 - 2014
Master's Degree	University of Tabriz		2003 - 2005
Bachelor's Degree	Imam Khomeini International University		1998 - 2003

RESEARCH AREAS

copulas, DEA, Biostatistics, Multivariate Analysis

ACADEMIC DUTIES

Duty	University	Area	Year(s)
Assistant Professor	Altinbas University	Department of Basic Medical Sciences	2024 -
Associate Professor	Islamic Azad University	Mathematics	2021 - 2023
Doctor Faculty Member	Islamic Azad University	Mathematics	2009 - 2021

ADMINISTRATIVE DUTIES

Duty	University	Year(s)
Commission Membership	Islami Azad University	2015 - 2016
Quality Board Membership	Islami Azad University	2014 - 2023
Board Membership	Islami Azad University	2014 - 2023

ACADEMIC AND PROFESSIONAL MEMBERSHIPS

Organisation	Membership	Year(s)
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NON-UNIVERSITY EXPERIENCE

Country	Organisation	Duty	Year(s)
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BOOKS

Descriptive Statistics At a Glance
Orhan Akay
tehran/iran, 978-600-6053-00-4, 2021
[Textbook](#) [All](#)

ARTICLES

Hyperbolic and Trigonometric Generators of Archimedean Copulas: Characteristics and Performance
kazemi rad amir masoud,golshani leila,AKAY ORHAN,KOKABINEZHAD MOHSEN
Sahand Communications in Mathematical Analysis, 2025
[International](#) DOI: 10.22130/scma.2024.2037882.1847

ARTICLES

Price Bubble and the Effect of Economic Variables on the Exchange Rate in the Iranian Financial Market Using ARIMA and TAR Methods

Zahedi Yaghoob, Rezaei Nader, AKAY ORHAN

Financial Economics, 2023

National DOI: 10.30495/fed.2022.1955939.2682

Archimedean Copulas in investigating efficiency of placed powerhouse on dams

kazemi rad amir masoud, golshani leila, AKAY ORHAN, KOKABINEZHAD MOHSEN

Journal of Iranian Dam and Hydroelectric PowerPlant, 2022

National

Geometric Comments on Music

AKAY ORHAN

WSEAS TRANSACTIONS on ACOUSTICS and MUSIC, 2021

International DOI: 10.37394/232019.2021.8.3

Archimedean Copulas and Several Methods on Constructing Generators

kazemi rad amir masoud, golshani leila, AKAY ORHAN

WSEAS TRANSACTIONS on SYSTEMS, 2021

International

Investigating of the Best Location of Solar Plants in Turkey by Different Multiple Decision Methods

AKAY ORHAN, MIRZAPOUR AMIN

Politeknik Dergisi, 2020

International

Using Copulas to Model Dependence Between Crude Oil Prices of West Texas Intermediate and Brent-Europe

AKAY ORHAN

Sahand Communications in Mathematical Analysis, 2020

International DOI: 10.22130/SCMA.2020.117584.713

A New Model for the Secondary Goal in DEA

KINACI HARUN, AKAY ORHAN

Sahand Communications in Mathematical Analysis, 2019

International

On Generators in Archimedean Copulas

AKAY ORHAN

Sahand Communications in Mathematical Analysis, 2018

International

Investigating 32 fundamental Iranian dams and efficiency of placed powerhouse on them in 1393

AKAY ORHAN, Arjomand Milad

Journal of Iranian dam and hydroelectric powerplant, 2016

National

The Dependence Structure Between the Monthly Minimum and Maximum Barometric Data in Iran

AKAY ORHAN

Gazi University Journal of Science, 2016

International

STOCHASTIC FRONTIER MODELS BY COPULAS AND AN APPLICATION

AKAY ORHAN, BAL HASAN, ÖZTÜRK FİKRİ, ALP İHSAN

U.P.B. Sci. Bull, 2016

International

ARTICLES

Using Data Envelopment Analysis and Stochastic Frontier Analysis Methods to Evaluate Efficiency of Hydroelectricity Centers

KINACI HARUN, AKAY ORHAN, ALP İHSAN

Gazi University Journal of Science, 2016

International

Additive generators of copulas

Bacıgal Tomas, AKAY ORHAN, Mesiar Radko, BAL HASAN

FUZZY SETS AND SYSTEMS, 2015

International

A NOTE ON "GENERALIZED BIVARIATE COPULAS AND THEIR PROPERTIES"

AKAY ORHAN, Rahimi Asghar

Sahand Communications in Mathematical Analysis, 2015

International

Generators of copulas and aggregation

Bacıgal Tomas, Mesiar Radko, AKAY ORHAN

Information Sciences, 2015

International

New families of symmetric/asymmetric copulas

Mesiar Radko, AKAY ORHAN

FUZZY SETS AND SYSTEMS, 2014

International

A New Measure for Detecting Influential DMUs in DEA

ACARLAR IRMAK, KINACI HARUN, AKAY ORHAN

Journal of Optimization, 2014

International

An Archimedean copula family with hyperbolic cotangent generator

AKAY ORHAN, Bacıgal Tomas, BAL HASAN

International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2014

International

SIMULATION STUDY ON COPULAS

ŞAHİN TEKİN SİNEM TUĞBA, AKAY ORHAN, ÖRKCÜ HACI HASAN

Sahand Communications in Mathematical Analysis, 2014

International

MODELING OF DEPENDENCE STRUCTURES IN METEOROLOGICAL DATA VIA ARCHIMEDEAN COPULAS

AKAY ORHAN, BAL HASAN, ÇELEBİOĞLU SALİH

U.P.B. Sci. Bull., 2013

International

Archimedean Copulas Family via Hyperbolic Generator

BAL HASAN, AKAY ORHAN

Gazi Üniversitesi Fen Bilimleri Dergisi Part: C Tasarım ve Teknoloji, 2013

International

An Application of Archimedean Copulas for Meteorological Data

AKAY ORHAN, ÜNSAL MEHMET GÜRAY

Gazi University Journal of Science, 2012

International

PROCEEDINGS

PROCEEDINGS

SEVERAL METHODS IN CONSTRUCTING GENERATORS OF ARCHIMEDEAN COPULAS

kazemi rad amir masoud, golshani leila, AKAY ORHAN
the 6th Seminar on Copula Theory and its Applications, 2021
National

Using copulas to model dependence between crude oil prices

AKAY ORHAN
International Conference of Mathematical Sciences (ICMS 2019), 2019
International

Copulas in stochastic frontier models by an application

AKAY ORHAN
Copulas and their Applications, 2017
International

On selection of copulas

AKAY ORHAN
VII Int. Joint Con. of Georgian Math. Union & Georgian Mechanical Union, 2016
International

Using copulas in the stochastic frontier analysis and an application on efficiency of Iranian hydroelectricity centers

AKAY ORHAN, Arjomand Milad
8. NATIONAL CONFERENCE OF DEA, 2016
National

Hyperbolic Archimedean copulas by wavelets

AKAY ORHAN
The Euler International Mathematical Institute, 2015
International

Copulas And Their Extensions

AKAY ORHAN
5th International Scientific Conference of Iranian Academics in Turkey, 2015
International

A NEW ARCHIMEDEAN COPULAS FAMILY WITH TRIGONOMETRIC GENERATOR

AKAY ORHAN
The second science news conference, 2014
National

A NEW APPROACH FOR THE SECONDARY GOAL IN DEA

KINACI HARUN, AKAY ORHAN, ACARLAR IRMAK
11 INTERNATIONAL CONFERENCE ON DEA, 2013
International

PROJECTS

GEOMETRIC REPRESENTATION OF MUSIC (Executive)

Scientific research project supported by Higher Education Institutions, 25.10.2010 - 25.07.2011
National Completed

MULTIVARIATE COPULAS (Executive)

Scientific research project supported by Higher Education Institutions, 22.04.2012 - 22.09.2012
National Completed

New Archimedean copulas family with trigonometric and hyperbolic generators (Executive)

Scientific research project supported by Higher Education Institutions, 09.10.2012 - 09.03.2013
National Completed

PROJECTS

A new method in model selection via goodness of fit test (Executive)

Scientific research project supported by Higher Education Institutions, 08.03.2015 - 08.09.2015

National Completed

THESIS SUPERVISION

Using Copulas with trigonometric and hyperbolic generator in Stochastic Frontier Analysis with an applied example

amirmasoud kazemi rad

2023 Doctorate

Test of reciprocal transfer bubble financial markets (Stock Exchange, Exchange and Gold)

yaghoob zahedi

2022 Doctorate

Investigation the impact of cash holding on-trade credit by emphasizing the role of competition in the market

mohammadreza mahdavi manesh

2021 Master's Degree

The relationship between debt financing with the growth and survival of listed companies in Tehran Stock Exchange

HADI YAZDANI

2019 Master's Degree

Relationship between values of the national culture and sensitivity of investors on prices in the Tehran Stock Exchange

mahsa mohebkah

2019 Master's Degree

COURSES

Course Type	Course Code	Course Name
Bachelor's Degree	MED112	INTRODUCTION TO RESEARCH METHODOLOGY
Bachelor's Degree	DEN304	ADVANCED RESEARCH METHODOLOGY II
Bachelor's Degree	MED162	BIOSTATISTICS
Bachelor's Degree	MED100	MOLECULAR AND CELLULAR MEDICAL SCIENCES
Bachelor's Degree	MED100-C1	MOLECULAR AND CELLULAR MEDICAL SCIENCES COMMITTEE I
Bachelor's Degree	MED100-C2	MOLECULAR AND CELLULAR MEDICAL SCIENCES COMMITTEE II
Bachelor's Degree	MED100-C3	MOLECULAR AND CELLULAR MEDICAL SCIENCES COMMITTEE III
Bachelor's Degree	MED100-C4	MOLECULAR AND CELLULAR MEDICAL SCIENCES COMMITTEE IV
Bachelor's Degree	MED300	INTRODUCTION TO CLINICAL SCIENCES (BODY SYSTEM DISEASES)
Bachelor's Degree	MED300-C7	NEUROLOGICAL SCIENCES, PSYCHIATRY AND MUSCULOSKELETAL SYSTEM COMMITTEE - VII

PERSONAL INFORMATION

CONTACT INFORMATION

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