



## Mohammad Hossein Dehghan

### Associate Professor

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## Education

- ✓ B.Sc, Statistics, Ferdowsi University of Mashhad - 1992
- ✓ MS, Statistics, Ferdowsi University of Mashhad - 1996
- ✓ PhD, Statistics, University of Laval CA - 2012
- ✓ PhD, ,University of Laval CA - 2012

## Courses

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|------------------------------|------------------------------------------------|
| 1. Regression 1              | 2. simulation                                  |
| 3. Professional language     | 4. 0                                           |
| 5. Mathematical Statistics2  | 6. Knowledge of Reliability theory             |
| 7. Topics in statistics      | 8. Statistical Methods                         |
| 9. Special Issues            | 10. 1- Statistical Analysis in Rural Planning  |
| 11. Statistical Inference 2  | 12. Regression 2                               |
| 13. Probability1             | 14. Mathematical software                      |
| 15. statistical Analysis     | 16. Statistical calculations                   |
| 17. Basic statistics         | 18. Statistical Inference 1                    |
| 19. Special Issues           | 20. Advanced discussions on Information theory |
| 21. Mathematical Statistics1 | 22. Numerical Methods and Simulation           |

## Thesis

## Master Thesis

### 1. Investigating extropy estimation methods and its applications

فاطمه فروزنده, [Mohammad Hossein Dehghan, Seyed Mahdi Amir Jahanshahi, Hamed Ahmadzade, Mehdi Jafari, Zahra Shabani Siahkalde]

نیمسال دوم سال تحصیلی 1402-1403

### 2. The Relationship Between Attention-deficit hyperactivity disorder and Autism Symptoms in Iranian Children and Adolescents: A Network Analysis Approach

ساجده معلائی, [Sana Nourimoghadam, Bahman Kord Tamini, Masoud Rostami, Naser Nastiezaie, Mohammad Hossein Dehghan]

نیمسال اول سال تحصیلی 1402-1403

### 3. Goodness-of-fit test for randomly censored data

یاسر هاشم زائی, [Seyed Mahdi Amir Jahanshahi, Mohammad Hossein Dehghan, Hamed Ahmadzade, Habib Naderi, Hassan Zarei]

نیمسال دوم سال تحصیلی 1401

### 4. Investigation of structural equation modeling in R software and its application in social sciences and medical research.

اله میر, [Mohammad Hossein Dehghan]

نیمسال اول سال تحصیلی 1401-1402

### 5. : Power entropy, Power Renyi entropy, variance bounds, unimodal distributions, Lipschitz continuity.

فاطمه آشتاب, [Mohammad Hossein Dehghan, Manije Saneitabas]

نیمسال اول سال تحصیلی 01-00

### 6. Review of Clustering Methods of Variables based on Latent Components and its Applications

زهرا قدری, [Mohammad Hossein Dehghan, J J]

نیمسال دوم سال تحصیلی 00-99

### 7. A copula based unsupervised machine learning statistical model and its applications

غزل تهرانی, [Mohammad Hossein Dehghan, J J, Habib Naderi, Manije Saneitabas, Hassan Zarei]

نیمسال دوم سال تحصیلی 00-99

### 8. Provide an improved clustering algorithm based on K-mean method

احسان نادی, [Mohammad Hossein Dehghan]

نیمسال دوم سال تحصیلی 98-97

### 9. Locally weighted regression and its application

قاسم بارانی پوراصل, [Mohammad Hossein Dehghan]

نیمسال اول سال تحصیلی 98-97

### 10. ab

فاطمه قنبری, [Mohammad Hossein Dehghan]

نیمسال اول سال تحصیلی 94-93

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## Journals Papers

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### 2023

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1. تعیین کران های واریانس توزیع های تک مدی دم سنگین به کمک آنتروپي تواني

Fatemeh Ashtab, Mohammad Hossein Dehghan, Manije Saneitabas

Volume: (28) 67 - 77

2. Estimating Kendalls T when both times are subject to interval censoring

Fateme Ghanbari, Mohammad Hossein Dehghan

Journal of Statistical Modelling: Theory and Applications Volume: (4) 97 - 110

3. A Goodness-of-fit test of Exponentiality for random censored data using L2 divergence

Yaser Hashemzahi, Seyed Mahdi Amir Jahanshahi, Mohammad Hossein Dehghan

Volume: (28) 147 - 159

### 2022

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4. Bootstrap approach in hypothesis testing of variance for fuzzy random variables

Azam Shahraki, Mohammad Hossein Dehghan, Hamed Ahmadzade

Journal of Fuzzy Systems and Applications Volume: (4) 187 - 204

### 2019

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5. An Analysis of the Survival Probability of Tuberculosis Patients with Right Censored and Interval Censored Observation in Zahedan during 2014 - 2016

, Mohammad Hossein Dehghan, Seyyed Mohammad Hashemi Shahri

Zahedan Journal of Research in Medical Sciences Volume: (21) 1 - 7

### 2018

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6. Partial triangular entropy of uncertain random variables and its application

Hamed Ahmadzade, Rong Gao, Mohammad Hossein Dehghan, Reza Ahmadi

Journal of Ambient Intelligence and Humanized Computing Volume: (9) 1455 - 1464

7. Catalyst Behavior Analyzed via General Regression Model with the Parameters Depending on a Covariate

Mohammad Hossein Dehghan, Zahra Yavari, Meissam Noroozifar

ACS Omega Volume: (3) 16795 - 16804

8. Prioritizing local agricultural processing industry with an emphasis on entrepreneurship development in rural areas by using the model (VIKOR) Case Study Hossein Abad district of Anar Township

Sirous Ghanbari, Mohammad Hossein Dehghan, Hossein Anari

Volume: (7) 211 - 223

## 2017

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### 9. Explain and assess the role of entrepreneurship in rural development with a focus on handicrafts (Case Study: Villages in the central Anar township)

Sirous Ghanbari, Mohammad Hossein Dehghan,

Journal of Research and Rural Planning Volume: (6) 119 - 132

### 10. Partial entropy of uncertain random variables

Hamed Ahmadzade, - -, Mohammad Hossein Dehghan, Yuhong Sheng

JOURNAL OF INTELLIGENT and FUZZY SYSTEMS Volume: (33) 105 - 112

## 2016

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### 11. Assess the factors affecting the development of entrepreneurship in rural tourism

Sirous Ghanbari, Mohammad Hossein Dehghan,

Volume: (10) 1 - 20

### 12. Estimation of the Conditional Survival Function of a Failure Time Given a Time-varying Covariate with Interval-censored Observations

Mohammad Hossein Dehghan,

JIRSS-Journal of the Iranian Statistical Society Volume: (15) 1 - 28

## 2011

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### 13. A generalization of Turnbulls estimator for nonparametric estimation of the conditional survival function with interval-censored data.

Mohammad Hossein Dehghan, Thierry Duchesne

LIFETIME DATA ANALYSIS Volume: (17) 234 - 255

### 14. On the performance of some non-parametric estimators of the conditional survival function with interval-censored data

Mohammad Hossein Dehghan, Thierry Duchesne

COMPUTATIONAL STATISTICS and DATA ANALYSIS Volume: (55) 3355 - 3364

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## Conferences Papers

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2025

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1. Theoretical criteria of information theory and its applications in selecting the appropriate copula

Elahe Sheybani, Mohammad Hossein Dehghan, Hamed Ahmadzade

2024

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2. Goodness-of-fit test for random right-censored data

2022

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3. The role of statistical software in education and research (the role of R software in education and research and analysis of censored data)

The 16th Iranian Statistics Conference

Mohammad Hossein Dehghan

2020

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4. New Estimator of Survival Function by using wavelet Function given right censored data

The second student statistics conference of Iran

Mehrollah Mmobarakei, Mohammad Hossein Dehghan, Hossein Hosseini Giv

2018

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5. Some Properties of the Estimation of Kendalls Tau Given Incomplete data

46th Annual Meettig In Montreal Quebec

Fateme Ghanbari, Mohammad Hossein Dehghan

2017

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6. Estimation of the regression model given its parameters are function of a covariate

e

, Mohammad Hossein Dehghan

2016

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7. Nonparametric estimation of correlation parameter on the bivariat destristribution families

The first professional seminar of Statistics and its applications

Fatemeh Ghanbari, Mohammad Hossein Dehghan

8. nonparametric generalized conditional survival function and estimation of censored data destristribution

13th Iranian Statistical Conference

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, Mohammad Hossein Dehghan

9. Semiparametric estimation procedure of dependence parameter in bivariate censored data

Fatemeh Ghanbari, Mohammad Hossein Dehghan

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2015

10. Study of Simple Linear Regression Based on Least Squares and Fuzzy Least Absolutes Deviations and its Application in Geography

Mohammad Hossein Dehghan, Farhad Hamidi,

11. Semiparametric estimation of correlation parameter on the distribution families

10th seminar of probability and stochastic process

Mohammad Hossein Dehghan, Fatemeh Ghanbari

12. Application of Linear Fuzzy and Ordinary Linear Regression on the Geographical data with Outlier Observation Case Study- Saghez Station

1st national conference soft computing

Mohammad Hossein Dehghan, Hojjajollah Daneshmand,

13. Entrepreneurship Development in Regional Rural Sustainable

ICGS2015

Sirous Ghanbari, Mohammad Hossein Dehghan, Hossein Anari

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2014

14. Predictive Model of Type 1 Diates Progression (Modeling cycle Waves of Circulating T Cells)

Workshop for Young Researchers in Mathematical Biology

S. Schnell, Majid Jaberri Douraki, Mohammad Hossein Dehghan, A. Khadra, M. Pietropola

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2013

15. ASYMPTOTIC PROPERTIES OF THE CONDITIONAL ESTIMATOR OF A FAILURE

Mohammad Hossein Dehghan, Hassan Zarei

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2010

16. A Comparison of the Performance of Some Non-parametric Estimators of the Conditional Survival Function with Interval-censored Data

Annual Meeting of the Statistical Society of Canada

Mohammad Hossein Dehghan, Thierry Duchesne

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2009

## 17. Nonparametric Estimation of the Conditional Survival Function with Time-Varying Covariate and Interval Censoring

37th Annual Meeting of the Statistical Society of Canada

Mohammad Hossein Dehghan, Thierry Duchesne

## Executive activities

مدیر گروه آموزشی آمار

from 1404/10/06 - now

مشاوره دانشجویان کارشناسی

from 1402/07/01 - to 1402/11/05

رئیس دانشکده صنعت و معدن خاش

from 1398/09/23 - to 1401/11/16

معاون پژوهشی دانشکده ریاضی

from 1396/10/23 - to 1398/05/31

معاون آموزشی دانشکده ریاضی

from 1394/06/23 - to 1396/10/23

رئیس مرکز سیستم های فازی

from 1393/11/15 - to 1394/06/01

مدیر اجرایی مجله سیستم های فازی ایران

from 1393/08/19 - to 1395/08/19

## Research Project

### 2025

1. Assessment and Monitoring of One-Month Preparatory Courses for School Entry in Bilingual Areas and T

Mohammad Hossein Dehghan, Vali Mehdinezhad - 2025

### 2023

2. Identifying the Ranking of Obstacles to the Development of Educational Sports in Stansistan and Balu

Mohammad Hossein Dehghan, Asma Lotfi - 2023