

# Certificate

of paper presentation



This is to certify that Dr. / Mr./ Mrs.

*Maryam Nematizadeh, Alireza Amirteymori, Maryeh Nematizadeh*



Has presented an Oral-Virtual paper entitled:

*Performance assessment of Two-stage network structures in the presence contextual variables*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

## of paper presentation



This is to certify that Dr. / Mr./ Mrs.

*Samaneh Esfidani, Shabnam Razavyan,*



Has presented an Oral-in-Person paper entitled:

*The novel super SBM of two-stage systems with negative data*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





# Certificate

of paper presentation



This is to certify that Dr. / Mr./ Mrs.

*Narjes AbaeiJabri, Mohammad Reza Mozaffari*



Has presented an Oral-Virtual paper entitled:

*The Cost Efficiency Model Based on Two Stage Network in Fully Fuzzy Mode*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

## of paper presentation



This is to certify that Dr. / Mr./ Mrs.

*Mahboubeh Afzali*



Has presented an Oral-in-Person paper entitled:

*The obstacles imposed by Covid-19 on supply chain management*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Sharifeh Soofizadeh, Reza Fallahnejad*



Has presented an Oral-Virtual paper entitled:

*Ranking of efficient units using cooperative game and multi-objective lexicography in fuzzy data envelopment analysis*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Mahboubeh Afzali*



Has presented an Oral-in-Person paper entitled:

*An efficient recommendation system for IoT applications*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Sharifeh Soofizadeh, Reza Fallahnejad*



Has presented an Oral-Virtual paper entitled:

*Centralized resource allocation in fuzzy data envelopment analysis using a lexicographic multi-objective approach*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Hossein Tohidi*

Has presented an Oral-Virtual paper entitled:

*Optimum Design of Distributed Generation Sources to Minimize Losses and to Modify Voltage Profile of Distribute Network Using Data Envelopment Analysis Method*  
In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Fatemeh Komaki*



Has presented an Oral-in-Person paper entitled:

*Interval Sensitivity and stability analysis on the levels of efficiency score of DMUs*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



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This is to certify that Dr. / Mr./ Mrs.

*Ali Akbar Bani, Mohsen Rostamy-Malkhalifeh, Farhad Hosseinzadeh Lotfi*



Has presented an Oral-in-Person paper entitled:

*Identifying the defining hyperplanes of production possibility set in DEA*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





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This is to certify that Dr. / Mr./ Mrs.

*Poriya Daliry, Omid Davarzani, Zohre Fasihifar*



Has presented                      Poster                      paper entitled:

*Evaluation of artificial intelligence in game*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Samaneh Esfidani, Shabnam Razavyan*



Has presented an Oral-in-Person paper entitled:

*Inverse DEA in two-stage systems: An additive procedure*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





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This is to certify that Dr. / Mr./ Mrs.

*Elahe Sarfi, Esmat Noroozi*



Has presented an Oral-Virtual paper entitled:

*Allocating fixed input in fuzzy Data Envelopment Analysis*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Vahid Ranjbar, Mohammad Mahdi Hazareh*



Has presented an Oral-Virtual paper entitled:

*Review Security Issues on Online Social Networks (OSN): A Survey*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





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This is to certify that Dr. / Mr./ Mrs.

*Monireh Jahani Sayyad Noveiri, Sohrab Kordrostami, Mohsen Mirzaei*



Has presented an Oral-in-Person paper entitled:

*Inverse dynamic data envelopment analysis under natural and managerial disposability*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



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This is to certify that Dr. / Mr./ Mrs.

*Abbas Ghomashi, Masomeh Abbasi, Saeed Shahghobadi*



Has presented an Oral-in-Person paper entitled:

*A neutral cross efficiency approach for evaluation two stage systems*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Marzieh Moradi Daleni*



Has presented an Oral-Virtual paper entitled:

*Energy Efficiency Analysis of Decision Making Units Using MC-ERM-DEA with Imprecise Data*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Leila Emami*



Has presented an Oral-Virtual paper entitled:

*The Effects of the Size of Decision-making Units on Allocating Fixed Costs in Supply Chains*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





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## of paper presentation



This is to certify that Dr. / Mr./ Mrs.

*Javad Gerami, Maryam Eftekharian Jahromi*



Has presented an Oral-in-Person paper entitled:

*Super-efficiency DEA in the presence of robust data*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



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This is to certify that Dr. / Mr./ Mrs.

*Mahnaz Maghbouli, Azam Pourhabib Yekta, Monireh Zoriehhabib*



Has presented an Oral-Virtual paper entitled:

*Deriving a common set of weights: A Double frontier Approach*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Masumeh Khanmohammadi*

Has presented an Oral-Virtual paper entitled:

*The most similar target based of inputs to the assessed unit in DEA*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Mehrdad Boroon*



Has presented

Poster

paper entitled:

*Data Warehouse Project*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Nasim Nasrabadi*



Has presented an Oral-Virtual paper entitled:

*Some properties of cost efficiency measures in DEA*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Zahra Shiri Daryani, Shabnam Razavyan, Ghasem Tohidi*



Has presented an Oral-Virtual paper entitled:

*Input Estimation in Two-Stage Systems with Undesirable Outputs Based on Allocative Efficiency*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Javad Gerami*



Has presented an Oral-in-Person paper entitled:

*A novel robust optimization approach to two-stage network DEA*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Somaye Sadeghi, Mehdi Fallah Jelodar*



Has presented an Oral-Virtual paper entitled:

*Decomposing of Total Factor Productivity and their Driving Forces: DEA-Malmquist Approach*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





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of paper presentation



This is to certify that Dr. / Mr./ Mrs.

*Mahdi Imanparast*



Has presented an Oral-Virtual paper entitled:

*Maximum coverage of lattice points in an orthogonal polygon*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Rita Shakouri, Maziar Salahi*



Has presented an Oral-Virtual paper entitled:

*Stochastic p-robust approach in network two-stage DEA model with undesirable outputs*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





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This is to certify that Dr. / Mr./ Mrs.

*Monireh Zoriehhabib, Mahnaz Maghbouli, Azam Pourhabib Yekta*



Has presented an Oral-Virtual paper entitled:

*Eco-efficiency DDF-based model; A modified two-stage procedure for Performance Ranking Based on SE*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

## of paper presentation



This is to certify that Dr. / Mr./ Mrs.

*Omid Valizadeh, Mojtaba Ghiyasi*



Has presented an Oral-Virtual paper entitled:

*Assessing telecommunication contractor firms using a hybrid DEA-BWM method*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair





# Certificate

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This is to certify that Dr. / Mr./ Mrs.

*Eshagh Hashemi, Ali Ebrahimnejad*



Has presented an Oral-in-Person paper entitled:

*Equivalence relationship between Fuzzy Data Envelopment Analysis and Multi Objective Programming Problem*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair



# Certificate

of paper presentation



This is to certify that Dr. / Mr./ Mrs.

*Ali Ebrahimnejad, Eshagh Hashemi*



Has presented an Oral-in-Person paper entitled:

*Fuzzy Data Envelopment Analysis from the Arithmetic Perspective: Review and Some New Results*

In the 14th International Conference on Decision and Data Envelopment Analysis that was held by Shahrood University of Technology on 31<sup>th</sup> August 2022, Iran

Dr. Mojtaba Ghiyasi  
Scientific Chair

Dr. Mohammad Rostami  
Executive Chair

