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International Researcher IDs

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Publons / Web Of Science ResearcherID: B-3787-2009

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Learning Knowledge

Doctorate 2004 - 2009	Istanbul Technical University, Fen Bilimleri Enstitüsü, Industrial Engineering, Turkey
Postgraduate 1999 - 2003	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri MühendisliĐi Bölümü, Turkey
Undergraduate 1994 - 1999	Selcuk University, Faculty Of Engineering, Department Of Civil Engineering, Turkey

Dissertations

Doctorate, Arařtırma geliřtirme projelerinin deĐerlendirilmesine bulanık gerek opsiyon yaklařımı, Istanbul Technical University, Fen Bilimleri Enstitüsü, Industrial Engineering, 2009

Postgraduate, La selection des inducteurs de cout dans la methode ABC avec la methode Zionst-Wallenius et programmation de but, Galatasaray University, Fen Bilimleri Enstitüsü, 2003

Academic Titles / Tasks

Professor 2020 - Continues	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri MühendisliĐi
Associate Professor 2014 - 2020	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri MühendisliĐi
Assistant Professor 2009 - 2014	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri MühendisliĐi
Lecturer 2007 - 2009	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri MühendisliĐi

Supported Projects

1. TOLGA A. Ç., Project Supported by Higher Education Institutions, TÜRK ELEKTRİK PİYASASINDA ETKİN GÜÇ TİCARETİ YÖNETİMİ OPTİMİZASYONU, 2018 - 2019
2. TOLGA A. Ç., Project Supported by Higher Education Institutions, BULANIK ÇOK ÖLÇÜTLÜ KARAR VERME YÖNTEMLERİYLE SÜRDÜRÜLEBİLİR VE YENİLENEBİLİR ENERJİ SANTRAL ALTERNATİFLERİNİN DEĞERLENDİRİLMESİ, 2017 - 2018
3. TOLGA A. Ç., Project Supported by Higher Education Institutions, PORTFÖY OPTİMİZASYONUNDA RİSK FAKTÖRLERİNİN KOVARYANSA BAĞLI OLARAK SEÇİMİ, 2016 - 2017
4. TOLGA A. Ç., Project Supported by Higher Education Institutions, ÇOK AŞAMALI YENİ ÜRÜN GELİŞTİRMEDE TİP-2 BULANIK KÜMELER İÇEREN GERÇEK OPSİYON DEĞERLEME KULLANIMI, 2015 - 2017
5. Tolga A. Ç., Parlak İ. B., Project Supported by Higher Education Institutions, Tip-2 bulanık sayı içeren çok ölçütlü karar verme yöntemleriyle sağlık donanımı seçimi, 2014 - 2015
6. TOLGA A. Ç., Project Supported by Higher Education Institutions, BANKA BİLİŞİM PROJELERİNİN STRATEJİK HEDEFLERE UYGUN OLARAK GERÇEK OPSİYONLAR BÜTÜNLEŞİK ÇOK ÖLÇÜTLÜ KARAR VERME YÖNTEMİYLE SEÇİMİ, 2012 - 2013
7. TOLGA A. Ç., Project Supported by Higher Education Institutions, ERP SİSTEM SEÇENEKLERİNİN GERÇEK OPSİYONLAR KULLANARAK BULANIK ÇOK ÖLÇÜTLÜ YÖNTEMLERLE YENİDEN DEĞERLEMESİ, 2011 - 2012
8. TOLGA A. Ç., Project Supported by Higher Education Institutions, DOĞAL AFETLER SONRASI HİZMET BİRİMLERİNİN KONUMLARININ OLABİLİRLİK YAKLAŞIMIYLA SEÇİMİ, 2011 - 2012
9. TOLGA A. Ç., Project Supported by Higher Education Institutions, BULANIK ÇOK ÖLÇÜTLÜ KARAR VERME VE GERÇEK OPSİYON MODELLERİYLE KONUM SEÇİMİ, 2010 - 2011
10. TOLGA A. Ç., Project Supported by Higher Education Institutions, ÇOK ÖLÇÜTLÜ KARAR VERME YÖNTEMLERİYLE PROJE SEÇİMİ, 2010 - 2011

Published journal articles indexed by SCI, SSCI, and AHCI

1. **The assessment of a smart system in hydroponic vertical farming via fuzzy MCDM methods**
Tolga A. Ç., Basar M.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.42, no.1, pp.1-12, 2022 (SCI-Expanded)
2. **Real options valuation of an IoT based healthcare device with interval Type-2 fuzzy numbers**
Tolga A. Ç.
SOCIO-ECONOMIC PLANNING SCIENCES, vol.69, 2020 (SCI-Expanded)
3. **Finite-interval-valued Type-2 Gaussian fuzzy numbers applied to fuzzy TODIM in a healthcare problem**
Tolga A. Ç., Parlak İ. B., Castillo O.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.87, 2020 (SCI-Expanded)
4. **Hydroponic system evaluation in urban farming via fuzzy EDAS and TODIM methods**
TOLGA A. Ç., Basar M.
Journal of Intelligent and Fuzzy Systems, vol.39, no.5, pp.6325-6337, 2020 (SCI-Expanded)
5. **Portfolio allocation with the TODIM method**
Alali F., Tolga A. Ç.
EXPERT SYSTEMS WITH APPLICATIONS, vol.124, pp.341-348, 2019 (SCI-Expanded)
6. **Evaluation of Knowledge Management Tools by Using An Interval Type-2 Fuzzy TOPSIS Method**

Büyüközkan Feyzioğlu G., Parlak İ. B., Tolga A. Ç.

INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.9, pp.812-826, 2016 (SCI-Expanded)

7. **A FUZZY MULTI-CRITERIA DECISION ANALYSIS APPROACH FOR RETAIL LOCATION SELECTION**
TOLGA A. Ç., Tuysuz F., Kahraman C.
INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING, vol.12, no.4, pp.729-755, 2013 (SCI-Expanded)
8. **A Real Options Approach For Software Development Projects Using Fuzzy Electre**
Tolga A. C.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.18, pp.541-560, 2012 (SCI-Expanded)
9. **A Comparative Fuzzy Real Options Valuation Model using Trinomial Lattice and Black-Scholes Approaches: A Call Center Application**
TOLGA A. Ç., Kahraman C., DEMİRCAN M. L.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.16, pp.135-154, 2010 (SCI-Expanded)
10. **An Alternative Ranking Approach and Its Usage in Multi-Criteria Decision-Making**
Kahraman C., TOLGA A. Ç.
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.2, no.3, pp.219-235, 2009 (SCI-Expanded)
11. **Fuzzy Multiattribute Evaluation of R&D Projects Using a Real Options Valuation Model**
TOLGA A. Ç., Kahraman C.
INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS, vol.23, no.11, pp.1153-1176, 2008 (SCI-Expanded)
12. **Fuzzy multicriteria R&D project selection with a real options valuation model**
Tolga A. C.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.19, pp.359-371, 2008 (SCI-Expanded)

Articles Published in Other Journals

1. **Evaluation of ERP softwares with fuzzy AHP integrated TODIM method**
TOLGA A. Ç.
Sakarya University Journal of Science, vol.22, no.5, pp.1351-1370, 2018 (Peer-Reviewed Journal)
2. **Sustainable and Renewable Energy Power Plants Evaluation by Fuzzy TODIM Technique**
TOLGA A. Ç., Turgut Z. K.
Alphanumeric Journal, vol.6, no.1, 2018 (Peer-Reviewed Journal)
3. **Yazılım Geliştirme Projelerinin Gerçek Opsiyon Değerleme Modeliyle Çok Ölçütlü Bulanık Değerlemesi**
TOLGA A. Ç., KAHRAMAN C.
İstanbul Ticaret Üniversitesi Fen Bilimleri Dergisi, vol.15, no.1, pp.13-26, 2009 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Vertical Farming: Under Climate Change Effect**
NASKALÍ A. T., PINARER Ö., TOLGA A. Ç.
in: Environment and Climate-smart Food Production, Charis M. Galanakis, Editor, Springer, pp.259-284, 2022
2. **Fuzzy MCDM Methods in Sustainable and Renewable Energy Alternative Selection: Fuzzy VIKOR and Fuzzy TODIM**
Turgut Z. K., Tolga A. Ç.
in: Energy Management—Collective and Computational Intelligence with Theory and Applications, Kahraman Cengiz, Kayakutlu Gülgün, Editor, Springer-Verlag, Berlin, pp.277-314, 2018
3. **Health Informatics**

Parlak İ. B., Tolga A. Ç.

in: Operations Research Applications in Healthcare Management, Kahraman Cengiz, Topçu, Y. İlker, Editor, Springer-Verlag, Berlin, pp.423-460, 2018

4. **Fuzzy Probability Theory I: Discrete Case**

Parlak İ. B., Tolga A. Ç.

in: Fuzzy Statistical Decision Making Theory and Applications, Kahraman, C., Kabak, Ö., Editor, Springer-Verlag, Berlin, pp.13-34, 2016

5. **Fuzzy Probability Theory II: Continuous Case**

Tolga A. Ç., Parlak İ. B.

in: Fuzzy Statistical Decision Making Theory and Applications, Kahraman, C., Kabak, Ö., Editor, Springer-Verlag, Berlin, pp.35-54, 2016

6. **Fuzzy Investment Planning and Analyses in Production Systems**

Kahraman C., Tolga A. Ç.

in: PRODUCTION ENGINEERING AND MANAGEMENT UNDER FUZZINESS, Kahraman C, Yavuz M, Editor, Springer-Verlag, Berlin, pp.279-298, 2010

Refereed Congress / Symposium Publications in Proceedings

1. **Level of Automation Assessment for Controlled-Environment Hydroponic Agriculture via Fuzzy MCDM Method**

Alem S., Toprak B., Tolga B., Tolga A. Ç.

Intelligent and Fuzzy Systems - Intelligence and Sustainable Future Proceedings of the INFUS 2023 Conference, İstanbul, Turkey, 22 - 24 August 2023, vol.759 LNNS, pp.45-52

2. **Site Selection of Solar Powered Electric Vehicle Smart Charging Station: Istanbul Case**

Mandaci S., TOLGA A. Ç.

Intelligent and Fuzzy Systems - Intelligence and Sustainable Future Proceedings of the INFUS 2023 Conference, İstanbul, Turkey, 22 - 24 August 2023, vol.759 LNNS, pp.676-683

3. **Feasibility Analysis of Automated Vertical Farming in Istanbul Using Fuzzy Logic**

Pakirdasi O., TOLGA A. Ç.

International Conference on Intelligent and Fuzzy Systems, INFUS 2022, İzmir, Turkey, 19 - 21 July 2022, vol.504 LNNS, pp.36-43

4. **Evaluation of Artificial Intelligence Applications in Aviation Maintenance, Repair and Overhaul Industry via MCDM Methods**

Aslan M. E., Tolga A. Ç.

International Conference on Intelligent and Fuzzy Systems, INFUS 2022, İzmir, Turkey, 19 - 21 July 2022, vol.504 LNNS, pp.822-830

5. **Blockchain Software Selection for a Maritime Organization with MCDM Method**

Kaşka M., TOLGA A. Ç.

International Conference on Intelligent and Fuzzy Systems, 21 - 23 July 2020

6. **Smart System Evaluation in Vertical Farming via Fuzzy WEDBA Method**

Başar M., TOLGA A. Ç.

Smart System Evaluation in Vertical Farming via Fuzzy WEDBA Method, 21 - 23 July 2020

7. **Process Robot Automation Selection with MADM in Airline Cargo Sector**

Durak G., TOLGA A. Ç.

International Conference on Intelligent and Fuzzy Systems, 21 - 23 July 2020

8. **Evaluation of hydroponic system in vertical farming via fuzzy EDAS method**

TOLGA A. Ç., Gamsız B., Başar M.

Advances in Intelligent Systems and Computing, 23 - 25 July 2019, vol.1029, pp.745

9. **Evaluating innovation projects in air cargo sector with fuzzy COPRAS**

TOLGA A. Ç., Durak G.

Advances in Intelligent Systems and Computing, 23 - 25 July 2019, vol.1029, pp.702

10. **Effective Trading in Turkish Electricity Market: Hedging with Options**
Ocakoğlu K., Tolga A. Ç.
World Congress on Engineering 2018 International Conference on Financial Engineering, London, United Kingdom, 4 - 06 July 2018, pp.314-318
11. **Sustainable and Renewable Energy Power Plants Evaluation by Fuzzy VIKOR Technique**
Turgut Z. K., TOLGA A. Ç.
International MultiConference of Engineers and Computer Scientists, 15 - 17 March 2017
12. **New Product Development Process Valuation using Compound Options with Type-2 Fuzzy Numbers**
TOLGA A. Ç.
International MultiConference of Engineers and Computer Scientists, 15 - 17 March 2017
13. **Covariance Based Selection of Risk and Return Factors for Portfolio Optimization**
Alali F., TOLGA A. Ç.
The 2016 International Conference of Financial Engineering, Londrina, Brazil, 29 June - 01 July 2016
14. **A Multi-Stage New Product Development using Fuzzy Type-2 sets in a Real Option Valuation**
Semercioglu N., TOLGA A. Ç.
IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), İstanbul, Turkey, 2 - 05 August 2015
15. **EVALUATION OF MEDICAL DEVICES USING FUZZY TOPSIS WITH TYPE-2 FUZZY NUMBERS**
PARLAK İ. B., Tolga A. C.
11th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), Joao Pessoa, Brazil, 17 - 20 August 2014, vol.9, pp.48-54
16. **EMPLOYING AN INTERVAL TYPE-2 FUZZY TOPSIS METHOD FOR KNOWLEDGE MANAGEMENT TOOL EVALUATION**
BÜYÜKÖZKAN FEYZİOĞLU G., PARLAK İ. B., TOLGA A. Ç.
11th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), Joao Pessoa, Brazil, 17 - 20 August 2014, vol.9, pp.55-61
17. **Tip 2 bulanık sayılar ile TOPSIS kullanarak medikal görüntüleme sistemlerinin seçimi**
PARLAK İ. B., TOLGA A. Ç.
Yöneylem Araştırması ve Endüstri Mühendisliği 34. Ulusal Kongresi (YA/EM 14), Turkey, 25 - 27 June 2014
18. **The Investment Scenario Analysis with Real Options Method by Using Monte Carlo Simulation**
Kayserilioğlu B., TOLGA A. Ç.
International Multi-Conference of Engineers and Computer Scientists (IMECS), Hong Kong, 13 - 15 March 2013
19. **FUZZY MULTI ATTRIBUTE VALUATION OF SOFTWARE PROJECTS IN BANKING VIA FUZZY REAL OPTIONS USING BALANCED SCORECARD**
Afacan O., TOLGA A. Ç.
10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Turkey, 26 - 29 August 2012, vol.7, pp.225-230
20. **Fuzzy Multi-criteria Method for Revaluation of ERP System Choices Using Real Options**
TOLGA A. Ç.
World Congress on Engineering (WCE 2011), London, Canada, 6 - 08 July 2011, pp.1074-1075
21. **Service Location Selection After Natural Disasters Using a Possibilistic Approach**
TÜYSÜZ F., TOLGA A. Ç.
International Conference on Risk Analysis and Crisis Response (RACR2011), 22 - 25 May 2011
22. **A NEW FUZZY ELECTRE APPROACH WITH AN ALTERNATIVE FUZZY RANKING METHOD**
TOLGA A. Ç., Kahraman C.
9th International FLINS Conference on Computational Intelligence: Foundations and Applications, Emei, PEOPLES R CHINA, 2 - 04 August 2010, vol.4, pp.432-433
23. **Fuzzy Real Option Value Integrated Fuzzy ANP Method for Location Selection Problems**
TOLGA A. Ç., Tuysuz F., Kahraman C.
2010 IEEE World Congress on Computational Intelligence, Barcelona, Spain, 18 - 23 July 2010
24. **Konum Seçim Problemleri için Bulanık Gerçek Opsiyonlarla Çok Ölçütlü Karar Verme Yaklaşımı**

TOLGA A. Ç., KAHRAMAN C.

Yöneylem Araştırması ve Endüstri Mühendisliği 30. Ulusal Kongresi (YA/EM 10), Turkey, 30 June - 02 July 2010, pp.397

25. **Alternatif Bulanık Sayı Sıralama İçeren ELECTRE Yöntemi ile Araştırma Geliştirme Projelerinin Seçimi**

TOLGA A. Ç., KAHRAMAN C.

Yöneylem Araştırması ve Endüstri Mühendisliği 30. Ulusal Kongresi (YA/EM 10), Turkey, 30 June - 02 July 2010, pp.385

26. **Fuzzy Multiattribute R&D Project Selection Using Real Options with Trinomial Lattice Approach**

TOLGA A. Ç., Kahraman C.

2nd International Conference on Risk Analysis and Crisis Response, Beijing, China, 19 - 21 October 2009, pp.162-164

27. **Fuzzy Multi-Criteria Evaluation of R&D Projects and A Fuzzy Trinomial Lattice Approach for Real Options**

TOLGA A. Ç., Kahraman C.

3rd International Conference on Intelligent System and Knowledge Engineering, Xiamen, China, 17 - 19 November 2008, pp.418-420

28. **A new fuzzy real options valuation model: Its application to multicriteria R&D project selection**

TOLGA A. Ç., Kahraman C.

8th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science, Madrid, Spain, 21 - 24 September 2008, vol.1, pp.641-646

29. **Yazılım Geliştirme Projelerinin Gerçek Opsiyon Değerleme Modeliyle Çok Ölçütlü Bulanık Değerlemesi**

TOLGA A. Ç., KAHRAMAN C.

Yöneylem Araştırması ve Endüstri Mühendisliği 28. Ulusal Kongresi (YA/EM 08), Turkey, 30 June - 02 July 2008, pp.76

Academic and Administrative Experience

2024 - Continues	Head of Department	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği
2024 - Continues	Head of Department	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği
2023 - Continues	Fakülte Kurulu Üyesi	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği
2022 - Continues	Fakülte Yönetim Kurulu Üyesi	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği
2016 - 2020	Fakülte Yönetim Kurulu Üyesi	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi
2011 - 2013	Deputy Head of Department	Galatasaray University, Mühendislik ve Teknoloji Fakültesi, Endüstri Mühendisliği

Courses

Financial Risk Analysis and Derivatives, Postgraduate, 2023 - 2024

Modern Management Concepts, Postgraduate, 2023 - 2024
Investment Analysis and Portfolio Theory, Postgraduate, 2023 - 2024
Quality Engineering, Undergraduate, 2023 - 2024
Game Theory and Applications, Postgraduate, 2023 - 2024

Advising Theses

Tolga A. Ç., EVALUATING MICROMOBILITY ALTERNATIVES USING NOVEL MCDM APPROACHES, Doctorate, E.ÇAKIR(Student), Continues
Tolga A. Ç., FEASIBILITY ANALYSIS OF A VERTICAL FARMING FACTORY: ISTANBUL CASE, Doctorate, B.TOPRAK(Student), Continues
Tolga A. Ç., Site selection and investment analysis of solar powered electric vehicle charging station in the city of İstanbul, Postgraduate, S.MANDACI(Student), 2023
Tolga A. Ç., Economic evaluation of vertical farming in Istanbul, Turkey, by black scholes real option model, Postgraduate, O.PAKIRDAŞI(Student), 2023
Tolga A. Ç., ARTIFICIAL INTELLIGENCE APPLICATIONS SELECTION VIA MCDM METHODS IN AVIATION MAINTENANCE, REPAIR & OVERHAUL INDUSTRY, Postgraduate, M.EMİN(Student), 2022
Tolga A. Ç., EVALUATION OF SMART AND VERTICAL SYSTEMS IN URBAN FARMING VIA FUZZY MCDM METHODS, Postgraduate, M.BAŞAR(Student), 2021
Tolga A. Ç., Process bot automation selection with MCDM in airline cargo sector, Postgraduate, G.Durak(Student), 2020
Tolga A. Ç., Blockchain applications in maritime industry, Postgraduate, M.Kaşka(Student), 2020
Tolga A. Ç., Portfolio Optimization with Systemic Risk and Liquidity Risk Factors, Doctorate, F.ALALÍ(Student), 2019
TOLGA A. Ç., Effective power trading management in Turkish electricity market: Hedging with options, Postgraduate, K.ÖZHAN(Student), 2018
TOLGA A. Ç., Sustainable and renewable energy power plants evaluation by fuzzy VIKOR and fuzzy TODIM techniques, Postgraduate, Z.KEZBAN(Student), 2017
TOLGA A. Ç., A multi-stage new product development using Type-2 fuzzy numbers in a real option valuation, Postgraduate, N.SEMERCİOĞLU(Student), 2015
TOLGA A. Ç., The investment scenario analysis of supplementary machines with real options method by using Monte Carlo simulation, Postgraduate, B.KAYSERİLİOĞLU(Student), 2013
TOLGA A. Ç., Fuzzy multi attribute valuation of software projects via fuzzy real options in banking industry using Balanced Scorecard, Postgraduate, Ö.AFACAN(Student), 2012

Tasks In Event Organizations

Tolga A. Ç., The International Conference on Intelligent and Fuzzy Systems 2023: Intelligent and Sustainable Future, Scientific Congress, İstanbul, Turkey, Ağustos 2023
Kahraman C., Tolga A. Ç., Çevik Onar S., Çebi S., Uçal Sarı İ., Öztayşi B., International Conference on Intelligent and Fuzzy Systems: Digital Acceleration and The New Normal, Scientific Congress, İzmir, Turkey, Temmuz 2022
Kahraman C., Tolga A. Ç., Çevik Onar S., Çebi S., Öztayşi B., Uçal Sarı İ., The International Conference on Intelligent and Fuzzy Systems 2021 (Emerging Conditions and Digital Transformation), Scientific Congress, İstanbul, Turkey, Ağustos 2021
Kahraman C., Tolga A. Ç., Çevik Onar S., Çebi S., Öztayşi B., Uçal Sarı İ., The International Conference on Intelligent and Fuzzy Systems 2020 (Intelligent and Fuzzy Techniques: Smart and Innovative Solutions), Scientific Congress, İstanbul, Turkey, Temmuz 2020
Kahraman C., Tolga A. Ç., Çebi S., Çevik Onar S., Öztayşi B., Uçal Sarı İ., The International Conference on Intelligent and Fuzzy Systems 2019 (Big Data Analytics and Decision Making), Scientific Congress, İstanbul, Turkey, Temmuz 2019

Metrics

Publication: 52

Citation (WoS): 247

Citation (Scopus): 451

H-Index (WoS): 9

H-Index (Scopus): 11

Research Areas

Fuzzy Sets and Systems, Renewable energy, Engineering Economics, Financial Models and Applications, Risk analysis, Technology and Innovation Management, Scenario Analysis, Multi Criteria Decision Making, Decision Support Systems