

## Asst. Prof. FATİH GÜRCAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAJ-7503-2021

Yoksis Researcher ID: 149694

### Education Information

Doctorate, Karadeniz Technical University, -, Bilgisayar Mühendisliği, Turkey 2010 - 2017

Postgraduate, Karadeniz Technical University, -, Bilgisayar Mühendisliği, Turkey 2005 - 2009

### Dissertations

Postgraduate, Web İçerik Madenciliği ve Konu Sınıflandırılması, Karadeniz Technical University, -, Bilgisayar Mühendisliği, 2009

### Research Areas

Social Sciences and Humanities, Management Information Systems

### Academic Titles / Tasks

Lecturer PhD, Karadeniz Technical University, Rektörlük, Uzaktan Eğitim Uygulama ve Araştırma Merkezi, 2001 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Learning from Imbalanced Data: Integration of Advanced Resampling Techniques and Machine Learning Models for Enhanced Cancer Diagnosis and Prognosis**  
GÜRCAN F., Soylu A.  
Cancers, vol.16, no.19, 2024 (SCI-Expanded)
- II. **What are developers talking about information security? A large-scale study using semantic analysis of Q&A posts**  
GÜRCAN F.  
PeerJ Computer Science, vol.10, 2024 (SCI-Expanded)
- III. **Forecasting CO<sub>2</sub> emissions of fuel vehicles for an ecological world using ensemble learning, machine learning, and deep learning models**  
Gurcan F.

PEERJ COMPUTER SCIENCE, vol.10, 2024 (SCI-Expanded)

- IV. **Student engagement research trends of past 10 years: A machine learning-based analysis of 42,000 research articles**  
GÜRCAN F., Erdogdu F., Cagiltay N. E., ÇAĞILTAY K.  
Education and Information Technologies, vol.28, no.11, pp.15067-15091, 2023 (SSCI)
- V. **Business Intelligence Strategies, Best Practices, and Latest Trends: Analysis of Scientometric Data from 2003 to 2023 Using Machine Learning**  
Gürcan F., Ayaz A., Menekse Dalveren G. G., Derawi M.  
SUSTAINABILITY, vol.15, no.13, 2023 (SCI-Expanded)
- VI. **Digital Transformation Strategies, Practices, and Trends: A Large-Scale Retrospective Study Based on Machine Learning**  
GÜRCAN F., BOZTAŞ G. D., Dalveren G. G. M., Derawi M.  
SUSTAINABILITY, vol.15, no.9, 2023 (SCI-Expanded)
- VII. **Research trends on distance learning: a text mining-based literature review from 2008 to 2018**  
GÜRCAN F., Cagiltay N. E.  
INTERACTIVE LEARNING ENVIRONMENTS, vol.31, no.2, pp.1007-1028, 2023 (SSCI)
- VIII. **What issues are data scientists talking about? Identification of current data science issues using semantic content analysis of Q&A communities**  
GÜRCAN F.  
PEERJ COMPUTER SCIENCE, vol.9, 2023 (SCI-Expanded)
- IX. **Identification of mobile development issues using semantic topic modeling of Stack Overflow posts**  
GÜRCAN F.  
PeerJ Computer Science, vol.9, pp.1-28, 2023 (SCI-Expanded)
- X. **Career in Cloud Computing: Exploratory Analysis of In-Demand Competency Areas and Skill Sets**  
ÖZYURT Ö., GÜRCAN F., Dalveren G. G. M., Derawi M.  
APPLIED SCIENCES-BASEL, vol.12, no.19, 2022 (SCI-Expanded)
- XI. **Exploratory Analysis of Topic Interests and Their Evolution in Bioinformatics Research Using Semantic Text Mining and Probabilistic Topic Modeling**  
GÜRCAN F., Cagiltay N. E.  
IEEE ACCESS, vol.10, pp.31480-31493, 2022 (SCI-Expanded)
- XII. **Evolution of Software Testing Strategies and Trends: Semantic Content Analysis of Software Research Corpus of the Last 40 Years**  
GÜRCAN F., Dalveren G. G. M., Cagiltay N. E., Roman D., Soylu A.  
IEEE ACCESS, vol.10, pp.106093-106109, 2022 (SCI-Expanded)
- XIII. **Covid-19 and E-Learning: An Exploratory Analysis of Research Topics and Interests in E-Learning During the Pandemic**  
GÜRCAN F., Dalveren G. G. M., Derawi M.  
IEEE ACCESS, vol.10, pp.123349-123357, 2022 (SCI-Expanded)
- XIV. **Detecting Latent Topics and Trends in Software Engineering Research Since 1980 Using Probabilistic Topic Modeling**  
GÜRCAN F., Dalveren G. G. M., Cagiltay N. E., Soylu A.  
IEEE ACCESS, vol.10, pp.74638-74654, 2022 (SCI-Expanded)
- XV. **Investigation of Emerging Trends in the E-Learning Field Using Latent Dirichlet Allocation**  
Gürcan F., Özyurt Ö., Cagiltay N. E.  
INTERNATIONAL REVIEW OF RESEARCH IN OPEN AND DISTRIBUTED LEARNING, vol.22, no.2, pp.1-17, 2021 (SSCI)
- XVI. **Mapping Human-Computer Interaction Research Themes and Trends from Its Existence to Today: A Topic Modeling-Based Review of past 60 Years**  
GÜRCAN F., Cagiltay N. E., ÇAĞILTAY K.  
INTERNATIONAL JOURNAL OF HUMAN-COMPUTER INTERACTION, vol.37, no.3, pp.267-280, 2021 (SCI-Expanded)
- XVII. **Comparison of Radiation-Induced Secondary Malignancy Risk Between Sequential and Simultaneous**

### **Integrated Boost for the Treatment of Nasopharyngeal Carcinoma: Intensity-Modulated Radiotherapy versus Volumetric-Modulated Arc Therapy**

Hacıslamoğlu E., Cinar Y., Eren M., Canılmaz E., Gürcan F., Serdar L., Yoney A.

CANCER MANAGEMENT AND RESEARCH, vol.12, pp.2513-2521, 2020 (SCI-Expanded)

XVIII. **Secondary cancer risk after whole-breast radiation therapy: field-in-field versus intensity modulated radiation therapy versus volumetric modulated arc therapy.**

Hacıslamoğlu E., Cinar Y., Gurcan F., Canılmaz E., Gungor G., Yoney A.

The British journal of radiology, vol.92, pp.20190317, 2019 (SCI-Expanded)

XIX. **Extraction of Core Competencies for Big Data: Implications for Competency-Based Engineering Education**

GÜRCAN F.

INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.35, no.4, pp.1110-1115, 2019 (SCI-Expanded)

XX. **Big Data Software Engineering: Analysis of Knowledge Domains and Skill Sets Using LDA-Based Topic Modeling**

GÜRCAN F., ÇAĞILTAY N.

IEEE ACCESS, vol.7, pp.82541-82552, 2019 (SCI-Expanded)

XXI. **Analysis of Software Engineering Industry Needs and Trends: Implications for Education**

GÜRCAN F., KÖSE C.

INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.33, no.4, pp.1361-1368, 2017 (SCI-Expanded)

### **Articles Published in Other Journals**

I. **IDENTIFICATION OF THE TRENDS OF CANDIDATES IN UNIVERSITY PREFERENCES BY SOCIAL MEDIA ANALYSIS**

Gurcan F.

Ömer Halisdemir Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.16, no.4, pp.1158-1168, 2023 (Peer-Reviewed Journal)

II. **Identification of Expertise Roles and Skill Sets Required for Careers in Health Information Management**

Gurcan F.

Gümüşhane Üniversitesi Sağlık Bilimleri Dergisi, vol.12, no.2, pp.377-385, 2023 (Peer-Reviewed Journal)

III. **The mainstream and pattern detection of e-learning acceptance research : Insights from a bibliometric analysis (2010-2021)**

AYAZ A., ÖZYURT Ö., GÜRCAN F.

COLLNET JOURNAL OF SCIENTOMETRICS AND INFORMATION MANAGEMENT, no.1, pp.39-59, 2023 (ESCI)

IV. **Stackoverflow gönderilerinde tartışılan trend konuların kelime frekans analizi ile belirlenmesi**

GÜRCAN F., ÖZYURT Ö.

Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.11, no.2, pp.357-368, 2021 (Peer-Reviewed Journal)

V. **Emerging Trends and Knowledge Domains in E-Learning Researches: Topic Modeling Analysis with the Article Published between 2008-2018**

GÜRCAN F., ÖZYURT Ö.

Journal of Computer and Education Research, vol.8, no.16, pp.738-756, 2020 (Peer-Reviewed Journal)

### **Books & Book Chapters**

I. **Microsoft Excel 2010**

YILMAZ E., SÖNMEZ A., SÖNMEZ S., KAYA Y., BİNGÖL Ö., GÜNER A., KOCABAŞ A., AKAY A., GÜRCAN F., DOĞU A. H. in: Temel Bilgi Teknolojileri, BİNGÖL Özkan, Editor, Derya Kitabevi, Trabzon, pp.158-192, 2011

II. **Temel Bilgi Teknolojileri**

KAYA Y., YILMAZ E., GÜRCAN F., SÖNMEZ S., KOCABAŞ A.

Derya Kitabevi, Trabzon, 2010

III. **Uygulamalı İleri Excel**

KAYA Y., YILMAZ E., SÖNMEZ S., KOCABAŞ A., GÜRCAN F.

Derya Kitabevi, Trabzon, 2007

IV. **Bölüm 3 Word**

Yılmaz E., Doğu A. H., Kaya Y., GürCAN F., Sönmez S., Oğuz Y., Bingöl Ö., Kocabaş A., Akay A., Güner A., et al.

in: Temel Bilgisayar, DOĞU Ali Haydar, Editor, Derya Kitabevi, Trabzon, pp.131-159, 2007

V. **Temel Bilgisayar**

KAYA Y., YILMAZ E., GÜRCAN F., KOCABAŞ A., SÖNMEZ S.

Şahinkaya Matbaacılık, İstanbul, 2005

VI. **Microsoft Word**

YILMAZ E., NEJAT M., KAYA Y., GÜRCAN F., SÖNMEZ S., OĞUZ Y., BİNGÖL Ö., KOCABAŞ A., GÜNER A., GÖĞÜSDERE Ş., et al.

in: Temel Bilgisayar, DOĞU Ali Haydar, Editor, Şahinkaya Matbaacılık, İSTANBUL, Trabzon, pp.102-119, 2005

VII. **Temel Bilgisayar 1**

KAYA Y., COŞKUN E., GÜRCAN F.

Karadeniz Teknik Üniversitesi Matbaası, Trabzon, 2001

## Refereed Congress / Symposium Publications in Proceedings

I. **Business Intelligence and Analytics: An Understanding of the Industry Needs for Domain-Specific Competencies**

GÜRCAN F., ŞEVİK S.

International Informatics and Software Engineering Conference (UBMYK), Ankara, Turkey, 06 November 2019

II. **Expertise Roles and Skills Required by the Software Development Industry**

GÜRCAN F., ŞEVİK S.

1st International Informatics and Software Engineering Conference (UBMYK), Ankara, Turkey, 06 November 2019

III. **EDUCAUSE UFUK RAPORLARININ MÜHENDİSLİK EĞİTİMİ BAĞLAMINDA İNCELENMESİ: 2019 YÜKSEKÖĞRENİM SÜRÜMÜ PERSPEKTİFİ**

ÖZYURT Ö., ÖZYURT H., GÜRCAN F.

2. ULUSLARARASI TÜRK DÜNYASI MÜHENDİSLİK VE FEN BİLİMLERİ KONGRESİ, 7 - 10 November 2019

IV. **ANALYSIS OF REQUIREMENTS FOR PROGRAMMING LANGUAGES AND TOOLS IN TURKISH SOFTWARE INDUSTRY**

GÜRCAN F., ÖZYURT Ö.

2. ULUSLARARASI TÜRK DÜNYASI MÜHENDİSLİK VE FEN BİLİMLERİ KONGRESİ, 7 - 10 November 2019

V. **Uzaktan Eğitim Literatüründeki Araştırma Eğilimlerinin Tespitine Yönelik Metinsel İçerik Analizi**

BERİGEL M., GÜRCAN F.

7. Uluslararası Öğretim Teknolojileri ve Öğretmen Eğitimi Sempozyumu, Antalya, Turkey, 30 October - 01 January 2019, pp.116-122

VI. **Üniversite Adayı Öğrencilerin Tercihlerindeki Ölçütlerin Belirlenmesi: Twitter Sosyal Medya Platformu Üzerinde İçerik Analizi**

GÜRCAN F., BERİGEL M.

7. Uluslararası Öğretim Teknolojileri ve Öğretmen Eğitimi Sempozyumu, Antalya, Turkey, 30 October - 01 November 2019, pp.327-332

VII. **Analysis of Requirements for Programming Languages and Tools in Turkish Software Industry**

GÜRCAN F., ÖZYURT Ö.

2. Türk Dünyası Mühendislik ve Fen Bilimleri Kongresi, Antalya, Turkey, 07 November 2019 - 10 January 2020, pp.307-311

VIII. **Tüm Meme Radyoterapisi Sonrası İkincil Kanser Riski: FiF, IMRT ve VMAT Tekniklerinin**

## **Karşılaştırılması**

HACİİSLAMOĞLU E., ÇINAR Y., GÜRCAN F., CANYILMAZ E., GÜNGÖR G., YÖNEY A.

XXIII. Ulusal Kanser Kongresi, Turkey, 17 - 21 April 2019

- IX. **Real-Time Processing of Big Data Streams: Lifecycle, Tools, Tasks, and Challenges**  
GÜRCAN F., BERİGEL M.  
2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, 19 - 21 October 2018
- X. **Multi-Class Classification of Turkish Texts with Machine Learning Algorithms**  
GÜRCAN F.  
2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, 19 - 21 October 2018
- XI. **Analysis Of Research Trends In Distance Education Literature By Probabilistic TopicModeling Method**  
GÜRCAN F., BERİGEL M.  
I. Uluslararası Kanuni Sultan SüleymanSempozyumu, Trabzon, Turkey, 24 - 26 April 2018, pp.640-643
- XII. **Major Research Topics in Big Data: A Literature Analysis from 2013 to 2017 Using Probabilistic Topic Models**  
GÜRCAN F.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XIII. **Real-Time Processing of Big Data Streams: Lifecycle, Tools, Tasks, and Challenges**  
GÜRCAN F., BERİGEL M.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Turkey, 19 - 21 October 2018, pp.284-289
- XIV. **Multi-Class Classification of Turkish Texts with Machine Learning Algorithms**  
GÜRCAN F.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Turkey, 19 - 21 October 2018, pp.294-298
- XV. **DENETİMLİ ÖĞRENME YORDAMLARIYLA TÜRKÇE METİNLER ÜZERİNDE KONU SINIFLANDIRMA ANALİZİ**  
GÜRCAN F.  
I. INTERNATIONAL TURKISH WORLDEGINEERING AND SCIENCE CONGRESS, 7 - 10 December 2017, vol.1, pp.69-75
- XVI. **ADAY ÖĞRENCİLERİN ÜNİVERSİTE TERCİHLERİNDEKİ ÖNCELİKLERİNİN VE ÖLÇÜTLERİNİN BELİRLENMESİ: TWITTER PLATFORMUNDA PAYLAŞILAN TÜRKÇE METİNLER ÜZERİNDE KÜMELEME ANALİZİ**  
GÜRCAN İ., GÜRCAN F., ŞEVİK S.  
I. INTERNATIONAL TURKISH WORLDEGINEERING AND SCIENCE CONGRESS, 7 - 10 December 2017, vol.1, pp.49-53
- XVII. **EKG'DEKİ DAL BLOKU VURULARININ ALGILANMASI İÇİN GENETİK ÖZNİTELİK SEÇİMİ**  
KAYA Y., GÜRCAN F., PEHLİVAN H.  
I. INTERNATIONAL TURKISH WORLD ENGINEERING AND SCIENCE CONGRESS, 7 - 10 December 2017, vol.1, pp.87-95
- XVIII. **DUYGU VE FİKİR ANALİZİNDE KULLANILAN DOĞAL DİL İŞLEME YÖNTEMLERİ VE YORDAMLARI**  
GÜRCAN F., ŞEVİK S., İSKENDEROĞLU M.  
I. INTERNATIONAL TURKISH WORLDEGINEERING AND SCIENCE CONGRESS, 7 - 10 December 2017, vol.1, pp.39-43
- XIX. **Genetic Feature Selection for Detection of Bundle Branch Block Beats of ECG**  
KAYA Y., GÜRCAN F., PEHLİVAN H.  
1nd International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 12 December 2017, vol.1, no.1, pp.87-95

- XX. **Günümüz İşgücü Piyasasında Ekonometri Uzmanlarının Sahip Olması Gereken Mesleki Niteliklerin Belirlenmesi**  
GÜRCAN F., ŞEVİK S.  
EYİ 2017 XVIII. Uluslararası Ekonometri YöneylemAraştırması ve İstatistik Sempozyumu, 5 - 07 October 2017, vol.1, pp.391
- XXI. **Naive Bayes Olasılık Modelleri ile Türkçe Metinlerin Sınıflandırılması**  
GÜRCAN F., ŞEVİK S.  
EYİ 2017XVIII. Uluslararası Ekonometri YöneylemAraştırması ve İstatistik Sempozyumu, 5 - 07 October 2017, vol.1, pp.383
- XXII. **Uluslararası Türk Dünyası Eğitim Bilimleri ve Sosyal Bilimler Kongresi**  
GÜRCAN F., KOKOÇ M.  
Programlama Dillerine İlişkin Güncel Taleplerin ve Eğilimlerin Belirlenmesi: Bir Semantik Analiz Uygulaması, Antalya, Turkey, 1 - 04 December 2016
- XXIII. **Sosyal Medya Verileri Üzerinde Semantik Modelleme Aday Öğrencilerin Üniversite Tercihlerindeki Eğilimlerinin Belirlenmesi**  
GÜRCAN F.  
Uluslararası Türk Dünyası Eğitim Bilimleri ve Sosyal Bilimler Kongresi, Antalya, Turkey, 1 - 04 December 2016
- XXIV. **Semantic Content Analysis Determination of Trending Topics in IS IT Field**  
GÜRCAN F., KÖSE C.  
INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE AND ENGINEERING (UBMK 2016), Tekirdağ, Turkey, 20 - 23 October 2016
- XXV. **Essential Challenges in Big Data Processing**  
GÜRCAN F.  
INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE AND ENGINEERING (UBMK 2016), Tekirdağ, Turkey, 20 - 23 October 2016
- XXVI. **Semantic Analysis Determination of in Demand Skills for IS IT Professionals**  
GÜRCAN F., KÖSE C.  
INTERNATIONAL CONFERENCE ONCOMPUTER SCIENCE AND ENGINEERING(UBMK 2016), 20 - 23 October 2016
- XXVII. **Web İçerik Madenciliği ve Konu Sınıflandırılması**  
GÜRCAN F., KÖSE C.  
VI. İstatistik Günleri Sempozyumu, Ondokuz Mayıs Üniversitesi, 2008., Turkey, 27 - 30 August 2008

## Metrics

Publication: 60

Citation (WoS): 329

Citation (Scopus): 443

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H-Index (Scopus): 12