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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. **Climate Change and Non-Communicable Diseases: A Bibliometric, Content, and Topic Modeling Analysis**
Dilaver İ., Karakullukçu S., Gürçan F., Topbaş M., Ursavaş Ö. F., Beyhun N. E.
SUSTAINABILITY, vol.17, no.6, pp.1-34, 2025 (SCI-Expanded)
- II. **Advanced Brain Tumor Classification in MR Images Using Transfer Learning and Pre-Trained Deep CNN Models**
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Cancers, vol.17, no.1, 2025 (SCI-Expanded)
- III. **Enhancing breast cancer prediction through stacking ensemble and deep learning integration**
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- IV. **Synthetic Boosted Resampling Using Deep Generative Adversarial Networks: A Novel Approach to Improve Cancer Prediction from Imbalanced Datasets**
GÜRCAN F., Soylu A.
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- V. **Learning from Imbalanced Data: Integration of Advanced Resampling Techniques and Machine Learning Models for Enhanced Cancer Diagnosis and Prognosis**
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CANCERS, vol.16, no.19, 2024 (SCI-Expanded)
- VI. **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)
- VII. **Forecasting CO₂ 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)
- VIII. **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)
- IX. **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.
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- X. **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.
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- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **Career in Cloud Computing: Exploratory Analysis of In-Demand Competency Areas and Skill Sets**
ÖZYURT Ö., GÜRCAN F., Dalveren G. G. M., Derawi M.
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- XV. **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.
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- XVI. **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.
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- XVII. **Exploratory Analysis of Topic Interests and Their Evolution in Bioinformatics Research Using Semantic Text Mining and Probabilistic Topic Modeling**

- GÜRCAN F., Cagiltay N. E.
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- XVIII. **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.
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- XIX. **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)
- XX. **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)
- XXI. **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**
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- XXII. **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., Canyılmaz E., Gungor G., Yoney A.
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- XXIII. **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)
- XXIV. **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)
- XXV. **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**
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- 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**
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- 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

- 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.
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- III. **Uygulamalı İleri Excel**
KAYA Y., YILMAZ E., SÖNMEZ S., KOCABAŞ A., GÜRCAN F.
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- IV. **Bölüm 3 Word**
Yılmaz E., Doğu A. H., Kaya Y., Gürçan 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

Papers Published in Refereed Scientific Meetings

- 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**
HACIİSLAMOĞLU 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 Topic Modeling Method**
GÜRCAN F., BERİGEL M.
I. Uluslararası Kanuni Sultan Süleyman Sempozyumu, 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 Enginering 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

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