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Kişisel Bilgiler

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Eğitim Bilgileri

Bütünleşik Doktora, Case Western Reserve University, Amerika Birleşik Devletleri 2003 - 2009

Lisans, İhsan Doğramacı Bilkent Üniversitesi, Türkiye 1998 - 2003

Araştırma Alanları

Bilgisayar Bilimleri, Biyoenformatik, Veritabanı ve Veri Yapıları, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Predicting the predisposition to colorectal cancer based on SNP profiles of immune phenotypes using supervised learning models**
Çakmak A., Ayaz H., Arıkan S., İbrahimzada A. R., Demirkol S., Sonmez D., Hakan M. T., Surmen S. T., Horozoglu C., Dogan M. B., et al.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, cilt.61, sa.1, ss.243-258, 2023 (SCI-Expanded)
- II. **Personalized Metabolic Analysis of Diseases.**
Cakmak A., Celik M.
IEEE/ACM transactions on computational biology and bioinformatics, cilt.18, ss.1014-1025, 2021 (SCI-Expanded)
- III. **Using positional sequence patterns to estimate the selectivity of SQL LIKE queries**
Aytimur M., Çakmak A.
Expert Systems with Applications, cilt.165, 2021 (SCI-Expanded)
- IV. **Scalable classification of organisms into a taxonomy using hierarchical supervised learners**
Sohsah G. N., İbrahimzada A. R., Ayaz H., Çakmak A.
JOURNAL OF BIOINFORMATICS AND COMPUTATIONAL BIOLOGY, cilt.18, sa.5, 2020 (SCI-Expanded)
- V. **Exploring the power of supervised learning methods for company name disambiguation in microblog posts**
Polat E. N., Çakmak A., Turan R. N.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.28, sa.5, ss.2400-2415, 2020 (SCI-Expanded)
- VI. **Interactive exploratory soccer data analytics**

- Delibas E., Uzun A., Inan M. F., Guzey O., Cakmak A.
INFOR, cilt.57, sa.2, ss.141-164, 2019 (SCI-Expanded)
- VII. **COMPUTATIONAL MODELING OF PASS EFFECTIVENESS IN SOCCER**
Cakmak A., Uzun A., Delibas E.
ADVANCES IN COMPLEX SYSTEMS, cilt.21, 2018 (SCI-Expanded)
- VIII. **Estimating the selectivity of LIKE queries using pattern-based histograms**
Aytimur M., Cakmak A.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.26, sa.6, ss.3319-3334, 2018 (SCI-Expanded)
- IX. **An online system for metabolic network analysis**
Cicek A. E., Qi X., Cakmak A., Johnson S. R., Han X., Alshalwi S., Ozsoyoglu Z. M., Ozsoyoglu G.
DATABASE-THE JOURNAL OF BIOLOGICAL DATABASES AND CURATION, 2014 (SCI-Expanded)
- X. **PathCase-SB: integrating data sources and providing tools for systems biology research**
Coskun S. A., Qi X., Cakmak A., Cheng E., Cicek A. E., Yang L., Jadeja R., Dash R. K., Lai N., Ozsoyoglu G., et al.
BMC SYSTEMS BIOLOGY, cilt.6, 2012 (SCI-Expanded)
- XI. **A NEW METABOLOMICS ANALYSIS TECHNIQUE: STEADY-STATE METABOLIC NETWORK DYNAMICS ANALYSIS**
Cakmak A., Qi X., Cicek A. E., Bederman I., Henderson L., Drumm M., Ozsoyoglu G.
JOURNAL OF BIOINFORMATICS AND COMPUTATIONAL BIOLOGY, cilt.10, sa.1, 2012 (SCI-Expanded)
- XII. **PathCase-SB architecture and database design**
Cakmak A., Qi X., Coskun S. A., Das M., Cheng E., Cicek A. E., Lai N., Ozsoyoglu G., Ozsoyoglu Z. M.
BMC SYSTEMS BIOLOGY, cilt.5, 2011 (SCI-Expanded)
- XIII. **Querying metabolism under different physiological constraints**
Cakmak A., Ozsoyoglu G., Hanson R. W.
Journal of Bioinformatics and Computational Biology, cilt.8, sa.2, ss.247-293, 2010 (SCI-Expanded)
- XIV. **Context-based literature digital collection search**
Ratprasartporn N., Po J., Cakmak A., Bani-Ahmad S., Ozsoyoglu G.
VLDB JOURNAL, cilt.18, sa.1, ss.277-301, 2009 (SCI-Expanded)
- XV. **PathCase: pathways database system**
Elliott B., Kirac M., Cakmak A., Yavas G., Mayes S., Cheng E., Wang Y., Gupta C., Ozsoyoglu G., Ozsoyoglu Z. M.
BIOINFORMATICS, cilt.24, sa.21, ss.2526-2533, 2008 (SCI-Expanded)
- XVI. **Discovering gene annotations in biomedical text databases**
Cakmak A., Ozsoyoglu G.
BMC BIOINFORMATICS, cilt.9, 2008 (SCI-Expanded)
- XVII. **Mining biological networks for unknown pathways**
Cakmak A., Ozsoyoglu G.
BIOINFORMATICS, cilt.23, sa.20, ss.2775-2783, 2007 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Predicting Student Success in Courses via Collaborative Filtering**
ÇAKMAK A.
International Journal of Intelligent Systems and Applications in Engineering, cilt.1, sa.5, ss.10-17, 2017 (Hakemli Dergi)
- II. **PathCase SB database enabled tools for regulatory metabolic networks**
QI X., Coskun S. A., ÇAKMAK A., CHENG E., ÇİÇEK A. E., Das M., Yang L., Jadeja R., Syed S., Dash R., et al.
ACM SIGBioinformatics Record, cilt.2, sa.3, ss.19-25, 2012 (Hakemsiz Dergi)
- III. **Evaluating Publication Similarity Measures**
Bani Ahmad S., ÇAKMAK A., ÖZSOYOĞLU G., Alhamdani A.
IEEE Data Engineering Bulletin, cilt.28, sa.4, ss.21-28, 2005 (Hakemsiz Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Predicting the Predisposition to Colorectal Cancer based on SNP Profiles of Immune Checkpoints using Supervised Learning Models.**
ÇAKMAK A., İbrahimzade A. R., Arıkan S., Ayaz H., Demirkol Ş., Sönmez D., HAKAN M. T., Turan Sürmen S., HOROZOĞLU C., KÜÇÜKHÜSEYİN Ö., et al.
VII. International Congress of Molecular Medicine, İstanbul, Türkiye, 5 - 07 Eylül 2019
- II. **Personalized metabolic analysis of diseases**
ÇAKMAK A., ÇELİK M. H.
The International Symposium on Health Informatics and Bioinformatics (HIBIT), 25 - 27 Ekim 2018
- III. **High impact academic paper prediction using temporal and topological features**
Davletov F., Aydın A. S., Cakmak A.
23rd ACM International Conference on Information and Knowledge Management, CIKM 2014, Shanghai, Çin, 3 - 07 Kasım 2014, ss.491-498
- IV. **Training the Data Scientists of the Future**
BULUT A., ARICI T., GÜZEY O., ARSLAN B., ÇAKMAK A.
Big Data and Analytics Education Conference (EDCON), 25 - 26 Ekim 2014
- V. **PathCase-MAW: An online metabolic network analysis workbench**
Cicek A. E., Qi X., Cakmak A., Johnson S. R., Han X., Alshalwi S., Ozsoyoglu G.
2013 4th ACM Conference on Bioinformatics, Computational Biology and Biomedical Informatics, ACM-BCB 2013, Washington, Amerika Birleşik Devletleri, 22 - 25 Eylül 2013, ss.219-228
- VI. **Computational interpretation of metabolomics measurements: Steady-state metabolic network dynamics analysis**
Cakmak A., Qi X., Cicek A. E., Özsoyoglu G.
2011 ACM Conference on Bioinformatics, Computational Biology and Biomedicine, ACM-BCB 2011, Chicago, IL, Amerika Birleşik Devletleri, 1 - 03 Ağustos 2011, ss.387-392
- VII. **Efficient query evaluation for DAG-shaped hierarchies**
Cheng E., Cakmak A., Ozsoyoglu Z. M.
2010 ACM International Conference on Bioinformatics and Computational Biology, ACM-BCB 2010, Niagara Falls, NY, Amerika Birleşik Devletleri, 2 - 04 Ağustos 2010, ss.454-456
- VIII. **Analyzing metabolite measurements for automated prediction of underlying biological mechanisms**
Cakmak A., Dsouza A., Hanson R. W., Ozsoyoglu M.
2010 ACM International Conference on Bioinformatics and Computational Biology, ACM-BCB 2010, Niagara Falls, NY, Amerika Birleşik Devletleri, 2 - 04 Ağustos 2010, ss.137-146
- IX. **Advanced querying interface for biochemical network databases**
Elliott B., Mayes S., Cakmak A., Ozsoyoglu G., Ozsoyoglu Z. M.
25th Annual ACM Symposium on Applied Computing, SAC 2010, Sierre, İsviçre, 22 - 26 Mart 2010, ss.1526-1533
- X. **Managing and Querying Mammalian Metabolic Networks: A Metabolism Query Language and Its Query Processing**
ÇAKMAK A., Ozsoyoglu G., Hanson R.
8th International Conference on Computational Systems Bioinformatics (CSB 2009), 10 - 12 Ağustos 2009
- XI. **PopulusLog: People Information Database**
Cakmak A., Kirac M., Ozsoyoglu G.
24th International Symposium on Computer and Information Sciences, Güzelyurt, Kıbrıs (Kktc), 14 - 16 Eylül 2009, ss.165-170
- XII. **A Web-Based Data Source for Metabolomics**
Cakmak A., Dsouza A., Hanson R., Ozsoyoglu G., Ozsoyoglu M.
24th International Symposium on Computer and Information Sciences, Güzelyurt, Kıbrıs (Kktc), 14 - 16 Eylül 2009, ss.453-454
- XIII. **Taxonomy-superimposed graph mining**
Cakmak A., Ozsoyoglu G.

11th International Conference on Extending Database Technology, EDBT 2008, Nantes, Fransa, 25 - 29 Mart 2008, ss.217-228

XIV. Gene ontology-based annotation analysis and categorization of metabolic pathways

Cakmak A., Kirac M., Reynolds M. R., Ozsoyoglu Z. M., Ozsoyoglu G.

19th International Conference on Scientific and Statistical Database Management, SSDBM 2007, Banff, Kanada, 9 - 11 Temmuz 2007

XV. Annotating genes using textual patterns

Cakmak A., Ozsoyoglu G.

13th Pacific Symposium on Biocomputing (PSB), Hawaii, Amerika Birleşik Devletleri, 3 - 07 Ocak 2007, ss.221-222

XVI. Evaluating different ranking functions for context-based literature search

Ratprasartpom N., Bani-Ahmad S., Cakmak A., Po J., Ozsoyoglu G.

IEEE 23rd International Conference on Data Engineering Workshop, İstanbul, Türkiye, 17 - 20 Nisan 2007, ss.261-268

XVII. On data and visualization models for signaling pathways

Ratprasartporn N., Cakmak A., Ozsoyoglu G.

18th International Conference on Scientific and Statistical Database Management, SSDBM 2006, Vienna, Avustralya, 3 - 05 Temmuz 2006, ss.133-142

XVIII. Task-oriented integrated use of biological web data sources

Kirac M., Cakmak A., Ozsoyoglu G.

18th International Conference on Scientific and Statistical Database Management, SSDBM 2006, Vienna, Avustralya, 3 - 05 Temmuz 2006, ss.81-90

XIX. Evaluating score and publication similarity functions in digital libraries

Bani-Ahmad S., Cakmak A., Al-Hamdani A., Ozsoyoglu G.

8th International Conference on Asian Digital Libraries, ICADL 2005, Bangkok, Tayland, 12 - 15 Aralık 2005, ss.483-485

Desteklenen Projeler

Çakmak A., Türkiye Sağlık Enstitüleri Başkanlığı (TÜSEB) Araştırma Projesi, Multi-omik Verilerle Metabolik Analiz Tabanlı Kişiselleştirilmiş Tedavi Seçimi, İlaç Yeniden Konumlaması ve Yeni İlaç Hedefleri Keşfi için Algoritmalar ve Araçlar, 2020 - 2024

Çakmak A., TÜBİTAK Projesi, Sql Like Sorgularının Seçicilik Tahmini İçin Yeni Yöntem Ve Algoritmalar, 2017 - 2019

Çakmak A., TÜBİTAK Projesi, Metabolomik Verinin İşlemsel Modellemesi için Algoritmalar ve Araçlar, 2015 - 2017

Çakmak A., TÜBİTAK Projesi, İlişkisel Veritabanı Sistemlerinde Hızlı Sorgu Optimizasyonu için Veri Madenciliği Teknikleri, 2014 - 2015

Metrikler

Yayın: 40

Atıf (WoS): 105

Atıf (Scopus): 197

H-İndeks (WoS): 6

H-İndeks (Scopus): 8

Akademi Dışı Deneyim

Oracle