Assoc. Prof. ADNAN ÖZSOY

Personal Information

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International Researcher IDs

ORCID: 0000-0002-0302-3721

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Education Information

Doctorate, Indiana University Bloomington, School Of Informatics And Computing, Computer Science, United States Of America 2008 - 2014

Postgraduate, The University of Texas at Austin, Natural Science, Computer Science, United States Of America 2005 - 2007

Undergraduate, Virginia Polytechnic Institute and State University, Engineering, Computer Science, United States Of America 2003 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Bit-vector strategies for string matching algorithms on GPGPUs, Indiana University Bloomington, Computer Science, 2010

Research Areas

Computer Sciences, algorithms, Distributed Systems, Parallel Algorithms, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2015 - 2018

Research Assistant, Indiana University Bloomington, Soıc, Computer Science, 2008 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Energy-efficient computing for machine learning based target detection**
   Fisne A., Kalay A., Yavuz F., Cetintepe C., ÖZSOY A.
   Concurrency and Computation: Practice and Experience, vol.35, no.24, 2023 (SCI-Expanded)

II. **Efficient heterogeneous parallel programming for compressed sensing based direction of arrival estimation**
Fisne A., Kilic B., Gungor A., ÖZSOY A.
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.9, 2022 (SCI-Expanded)

III. **A non-sequential refinement approach to improve word embeddings using GPU-based string matching algorithms**
Naderalvojoud B., ÖZSOY A.
CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS, vol.24, no.4, pp.3123-3134, 2021 (SCI-Expanded)

IV. **A taxonomy for Blockchain based distributed storage technologies**
Cangir O. F., Cankur O., ÖZSOY A.
INFORMATION PROCESSING & MANAGEMENT, vol.58, no.5, 2021 (SCI-Expanded)

V. **cuRCD: Region covariance descriptor CUDA implementation**
Asan M. A., ÖZSOY A.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.80, pp.19737-19751, 2021 (SCI-Expanded)

VI. **Creating consensus group using online learning based reputation in blockchain networks**
Bugday A., ÖZSOY A., Oztaner S. M., Sever H.
PERVASIVE AND MOBILE COMPUTING, vol.59, 2019 (SCI-Expanded)

VII. **Design and implementation of real-time wideband software-defined radio applications with GPGPUs**
Fisne A., ÖZSOY A.
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.30, no.21, 2018 (SCI-Expanded)

VIII. **An efficient parallelization of longest prefix match and application on data compression**
ÖZSOY A.
INTERNATIONAL JOURNAL OF HIGH PERFORMANCE COMPUTING APPLICATIONS, vol.30, no.3, pp.276-289, 2016 (SCI-Expanded)

IX. **Optimizing LZSS compression on GPGPUs**
Ozsoy A., Swany M., CHAUHAN A.
FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF GRID COMPUTING AND ESCIENCE, vol.30, pp.170-178, 2014 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **A Role-Based Access Control Management Model on Blockchain for Restricted Facilities: An Airport Example**
Zorlu O., ÖZSOY A., SERT S. A.
10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023

II. **An Immutable Navigation Database on Blockchain**
Zorlu O., ÖZSOY A.
10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023

III. **Securing Blockchain Shards By Using Learning Based Reputation and Verifiable Random Functions**
Bugday A., ÖZSOY A., Sever H.
International Symposium on Networks, Computers and Communications (ISNCC), İstanbul, Turkey, 18 - 20 June 2019

IV. **A Hybrid Model for Multiple Uses of Prepaid Telecommunication Common Assets**
Aycicek O., ÖZSOY A., Berk M.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018

V. **GPU-Based Parallel Genetic Algorithm for Increasing the Coverage of WSNs**

zorlu o., DİLEK S., ÖZSOY A.

ICPADS - The International Conference on Parallel and Distributed Systems, 15 - 17 December 2017

VI. **Grafik Processor Accelerated Real Time Software Defined Radio Applications**

Fisne A., ÖZSOY A.

25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

VII. **CULZSS-Bit: A Bit-Vector Algorithm for Lossless Data Compression on GPGPUs**

Ozsoy A.

DISCS The International Workshop on Data-Intensive Scalable Computing Systems, Louisiana, United States Of America, 16 - 21 November 2014, pp.57-64

VIII. **Achieving TeraCUPS on Longest Common Subsequence Problem using GPGPUs**

Ozsoy A., CHAUHAN A., Swany M.

19th IEEE International Conference on Parallel and Distributed Systems (ICPADS), Seoul, South Korea, 15 - 18 December 2013, pp.69-77

IX. **Pipelined Parallel LZSS for Streaming Data Compression on GPGPUs**

Ozsoy A., Swany M., CHAUHAN A.

IEEE 18th International Conference on Parallel and Distributed Systems (ICPADS), Singapore, Singapore, 17 - 19 December 2012, pp.37-44

X. **CULZSS: LZSS Lossless Data Compression on CUDA**

Ozsoy A., Swany M.

IEEE International Conference on Cluster Computing (CLUSTER), Texas, United States Of America, 26 - 30 September 2011, pp.403-411

XI. **Towards Large-Scale Molecular Dynamics Simulations on Graphics Processors**

Davis J. E., Ozsoy A., Patel S., Taufer M.

1st International Conference on Bioinformatics and Computational Biology, Louisiana, United States Of America, 8 - 10 April 2009, vol.5462, pp.176-186

Supported Projects

ÖZSOY A., ZORLU O., DİLEK S., Project Supported by Higher Education Institutions, ICPADS 2017 Konferans Katilimi, 2017 - 2018

ÖZSOY A., Project Supported by Higher Education Institutions, Başarım 2017 Ulusal Konferans Katılımı, 2017 - 2017

ÖZSOY A., Project Supported by Higher Education Institutions, PPOPP 2017 Konferans Katılım, 2016 - 2017

ÖZSOY A., Project Supported by Higher Education Institutions, Büyük Veride Yüksek başarımlı hesaplamalar, 2015 - 2016

Metrics

Publication: 20
Citation (WoS): 60
Citation (Scopus): 78
H-Index (WoS): 4
H-Index (Scopus): 5