

Assoc. Prof. ADNAN ÖZSOY

Personal Information

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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, Soic, Computer Science, 2008 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

I. A taxonomy for Blockchain based distributed storage technologies

Cangir O. F., Cankur O., ÖZSOY A.

INFORMATION PROCESSING & MANAGEMENT, vol.58, no.5, 2021 (Journal Indexed in SCI)

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, 2021 (Journal Indexed in SCI)

- III. **A non-sequential refinement approach to improve word embeddings using GPU-based string matching algorithms**
Naderalvojud B., ÖZSOY A.
CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS, 2021 (Journal Indexed in SCI)
- IV. **cuRCD: Region covariance descriptor CUDA implementation**
Asan M. A. , ÖZSOY A.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.80, pp.19737-19751, 2021 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **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
- III. **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
- IV. **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
- V. **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
- VI. **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
- VII. **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

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

Ozsoy A., Swamy M.

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

IX. **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 Katılımı, 2016 - 2017

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

Citations

Total Citations (WOS):56

h-index (WOS):4