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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Turkey 2011 - 2017

Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Turkey 2009 - 2011

Dissertations

Doctorate, Parallel direct and hybrid methods based on row block partitioning for solving sparse linear systems, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, 2017

Postgraduate, Minimizing communication through computational redundancy in parallel iterative solvers, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, 2011

Research Areas

algorithms, Computer Vision, Equipment, Theoretical Computer Science, Software

Academic and Administrative Experience

Erasmus Coordinator, Ankara Yildirim Beyazit University, Mühendislik ve Doğa Bilimleri Fakültesi, Bilgisayar Mühendisliği, 2020 - Continues

Courses

Parallel Programming I, Undergraduate, 2021 - 2022

Programming Languages, Undergraduate, 2019 - 2020, 2020 - 2021

JULIA HIGH PERFORMANCE, Postgraduate, 2020 - 2021

Parallel Algorithms, Postgraduate, 2019 - 2020

Operating Systems, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

1. PARTITIONING AND REORDERING FOR SPIKE-BASED DISTRIBUTED-MEMORY PARALLEL GAUSS-

SEIDEL

Torun T., TORUN F. Ş. , MANGUOĞLU M., Aykanat C.

SIAM Journal on Scientific Computing, vol.44, no.2, 2022 (Peer-Reviewed Journal)

II. A novel partitioning method for accelerating the block cimmino algorithm

Torun F. Ş. , Manguoglu M., AYKANAT C.

SIAM Journal on Scientific Computing, vol.40, no.6, 2018 (Peer-Reviewed Journal)

III. Parallel minimum norm solution of sparse block diagonal column overlapped underdetermined systems

Torun F. Ş. , MANGUOĞLU M., Aykanat C.

ACM Transactions on Mathematical Software, vol.43, no.4, 2017 (Peer-Reviewed Journal)

Articles Published in Other Journals

I. PARALLEL K-MEANS CLUSTERING WITH NAÏVE SHARDING FOR UNSUPERVISED IMAGE SEGMENTATION VIA MPI

Top A. E. , Torun F. Ş. , Kaya H.

Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.3, pp.791-798, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Improving the Scalability of the ABCD Solver with a Combination of New Load Balancing and Communication Minimization Techniques

Duff I., Leleux P., Ruiz D., TORUN F. Ş.

The International Conference on Parallel Computing ParCo2019, Prag, Czech Republic, 10 - 13 September 2019

II. Parallel and Distributed Image Segmentation Based on Colors Using K-Means Clustering Algorithm

TOP A. E. , TORUN F. Ş. , KAYA H.

5th International Conference on Engineering Sciences (ICES 2019), Ankara, Turkey, 19 September 2019

III. New Floating-Point to Integer Mapping Techniques in Row Inner-Product Graph Partitioning for Block Cimmino Algorithm

TORUN F. Ş.

5th International Conference on Engineering Sciences, Ankara, Turkey, 19 September 2019

IV. Recent advances on the Augmented Block Cimmino method

Dumitraş A., Leleux P., Popa C., Rude U., Ruiz D., TORUN F. Ş.

Twelfth Workshop on Mathematical Modelling of Environmental and Life Sciences Problems, Constanta, Romania, 24 - 28 September 2018

V. Solving Sparse Underdetermined Linear Least Squares Problems on Parallel Computing Platforms

TORUN F. Ş. , MANGUOĞLU M., AYKANAT C.

SIAM Conference on Parallel Processing for Scientific Computing, Paris, France, 12 - 15 April 2016, pp.71

Metrics

Publication: 9

Citation (Scopus): 4

H-Index (Scopus): 1