



Mustafa Ozan Karsavuran

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PERSONAL INFORMATION ◇ **Birth:** December 20, 1988 in Bornova, İzmir, Turkey.
◇ **Citizenship:** Republic of Turkey.
◇ **Language:** Turkish (native) and English (fluent).

RESEARCH INTERESTS ◇ Parallel Computation
◇ Distributed and Shared Memory Architectures
◇ Sparse Tensors
◇ Sparse Matrices
◇ Cache Locality
◇ Hypergraph Partitioning

PUBLICATIONS ◇ M. O. Karsavuran, S. Acer and C. Aykanat, “Reduce Operations: Send Volume Balancing While Minimizing Latency,” in *IEEE Transactions on Parallel and Distributed Systems*, vol. 31, no. 6, pp. 1461-1473, 1 June 2020. doi: 10.1109/TPDS.2020.2964536
◇ M. O. Karsavuran, K. Akbudak and C. Aykanat, “Locality-Aware Parallel Sparse Matrix-Vector and Matrix-Transpose-Vector Multiplication on Many-Core Processors,” in *IEEE Transactions on Parallel and Distributed Systems*, vol. 27, no. 6, pp. 1713-1726, June 1 2016. doi: 10.1109/TPDS.2015.2453970

WORK EXPERIENCE ◇ **Teaching Asistant**
Bilkent University, 2012 Fall – present, Ankara, Turkey
Courses: CS 101: Algorithms and Programming I, CS 102: Algorithms and Programming II, CS 224: Computer Organization, CS470: Introduction to Applied Cryptography, CS473: Algorithms I
◇ **Intern**
Turkcell İletişim Hizmetleri A.Ş., ICT, July – August, 2011, İstanbul, Turkey
Tested projects developed with Microsoft SharePoint and wrote Analysis Document
◇ **Tutor**
Bilkent University, CS111 Laboratory Work, 2010 – 2011 Fall, Ankara, Turkey
Course Topic: Introduction to Computing in Engineering and Science (with Matlab and Java)
◇ **Intern**
CMA Danışmanlık ve Bilişim Teknolojileri, June – July, 2010, İzmir, Turkey
Web based Project Management Service using ASP.NET and customized .NET logging library using log4net

- EDUCATION
- ◇ **Doctor of Philosophy in Computer Engineering**
Dept. of Computer Engineering, Bilkent University, September 2014 – present.
CGPA: 3.47/4.00
 - ◇ **Master of Science in Computer Engineering**
Dept. of Computer Engineering, Bilkent University, September 2012 – September 2014.
CGPA: 3.60/4.00
Thesis: Increasing Data Reuse in Parallel Sparse Matrix-Vector and Matrix-Transpose-Vector Multiply on Shared-Memory Architectures
 - ◇ **Bachelor of Science in Computer Engineering**
Dept. of Computer Engineering, Bilkent University, September 2007 – June 2012.
CGPA: 3.44/4.00
 - ◇ **High School**
İzmir Fen Lisesi 2003 – 2006.
Diploma Degree: 4.12/5
- HONORS
- ◇ Design Award for Senior Design Project from Bilkent University, 2012
 - ◇ 100% Merit Scholarship from Bilkent University 2010 – 2012
 - ◇ High Honor at 2009 – 2010 Fall, 2010 – 2011 Fall, 2010 – 2011 Spring, 2011 – 2012 Fall, 2011 – 2012 Spring from Bilkent University
 - ◇ Honor at 2008 – 2009 Fall, 2009 – 2010 Spring, from Bilkent University
 - ◇ Ranked as 1st at III. Dokuz Eylül University Science and Engineering Project Contest, 2006
 - ◇ Ranked as 2nd in TÜBİTAK National Project Contest for High School Students, 2006
 - ◇ Ranked as 911th in National High School Entrance Exam, Turkey, 2003.
- PERSONAL AFFILIATIONS
- ◇ IEEE Membership 2010 – present
 - ◇ ACM Student Membership 2010 – present
 - ◇ Bilkent IEEE Computer Society Executive Comitee Vice Chair 2010 – 2011
- TECHNICAL SKILLS
- ◇ Programming Languages and Technologies:
Advanced in: C++, C, MPI, OpenMP
Familiar with: Java SE, C#, .NET, ASP.NET, MATLAB, HTML, Assembly (MIPS and Intel 8051), PHP, Microsoft SQL Server, MySql
- SELECTED PROJECTS
- ◇ Target Tracking by Using Seismic Sensors. Implemented in C++ and Java. 2011 – 2012
Supervisor: İbrahim Körpeoğlu
 - ◇ ROM-Airlines : A web based staff management and reservation system for airline companies. Implemented in C#, ASP.NET and MySQL. 2011
 - ◇ Dormbook : A web based dorm mate matching system according to personal criteria. Implemented in Java. 2010
 - ◇ Computing dose of I-131 for Treatment of Thyroid Cancer Using Artificial Neural Network. Implemented in C++, 2005 – 2006
Supervisor: Mustafa İnceoğlu, Hasan Korkmaz