

Dr. Emrullah SONUÇ

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Education:

- Feb.2012 - Jul.2017 Karabuk University, Karabuk, Turkey
PhD. in Computer Engineering, CGPA 3.65
Thesis Title: Parallelization of Simulated Annealing Algorithm on Graphics Processing Unit.
- Feb.2010 - Feb.2012 Karabuk University, Karabuk, Turkey
M.S. in Computer Engineering, CGPA 3.57
Thesis Title: Verification Of Regcm4 Regional Climate Model Data.
- Sep.2006 - Jun.2008 Selcuk University, Konya, Turkey (Undergraduate transfer)
B.S. in Computer Engineering, CGPA 3.01
- Sep.2004 - Jun.2006 European University of Lefke, Lefke, TRNC
B.S. in Computer Engineering, CGPA 3.58
- Sep.1996 - Jun.2003 Karabük Anatolian İmam-Hatip High School, Karabuk, Turkey

Research Interests:

Parallel Computing
Artificial Intelligence
Evolutionary Computation
Metaheuristic Algorithms

Teaching Interests:

Machine Learning (Deep Learning)
Big Data
Internet of Things (IOT)
Programming Languages
Android Application Development

Academic History:

Nov. 2017 – ...	Assist. Prof., Computer Engineering Department, Karabuk University
Oct. 2009 – Nov. 2017	Research Assistant, Computer Engineering Department, Karabuk University

Skills:

Spoken Languages:	Intermediate English, native Turkish speaker.
Programming:	C, C++, Java, PHP, Python, CUDA, JavaScript, ...
Operating Systems:	Variuos Distributions of Linux, Windows, Android.
Distributed Computing:	OpenMP, OpenMPI.
Database Administration:	MySQL, PostgreSQL, MariaDB, ...

Academic Service:

Assistant Editor-in-Chief, Engineering Science and Technology, an International Journal (JESTECH), Elsevier
Reviewer, Turkish Journal of Electrical Engineering and Computer Sciences
Reviewer, Computational Intelligence and Neuroscience
Reviewer, Technological Applied Sciences
Reviewer, Duzce University Journal of Science & Technology
Reviewer, Akademik Bilişim Conference

International Journal Publications:

1. **Sonuç, E.** Sen, B., Bayir, S., "A cooperative GPU-based Parallel Multistart Simulated Annealing algorithm for Quadratic Assignment Problem", Engineering Science and Technology, an International Journal, 21 (5), 843-849, 2018.
2. **Sonuç, E.** Sen, B., Bayir, S., "A Parallel Simulated Annealing Algorithm for Weapon-Target Assignment Problem", International Journal of Advanced Computer Science and Applications, 8 (4): 87-92, 2017.
3. **Sonuç, E.**, Sen, B., Bayir, S., "A Parallel Approach for Solving 0/1 Knapsack Problem using Simulated Annealing Algorithm on CUDA Platform", International Journal of Computer Science and Information Security, 14 (12): 1096-1101, 2016.
4. Sen B., Kilinc R., Sen B., **Sonuç E.**, "Validation of a daily precipitation estimates of the regional climate model RegCM4 over the domains in Turkey with NWP verification techniques", Fresenius Environmental Bulletin, Parlar Scientific Publications, 2014.

International Conference/Workshop Publications:

1. **Sonuç E.**, "An Improved Crow Search Algorithm for Continuous Optimization Problems", 2nd International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES19), Apr 26-28, 2019, Alanya - TURKEY.
2. **Sonuç E.**, "Artificial Bee Colony Algorithm for The Linear Ordering Problem", International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES18), May 11-13, 2018, Safranbolu - TURKEY.
3. **Sonuç E.**, Sen B., Bayir S., "Comparison of Neighborhood Search Techniques for Solving Weapon-Target Assignment Problem using Simulated Annealing Algorithm", International Conference on Mathematics and Engineering (ICOME), 10-12 May 2017, Istanbul - TURKEY.
4. **Sonuç E.**, "An Efficient Heuristic for Subset Sum Problem", International Conference on Mathematics and Engineering (ICOME), 10-12 May 2017, Istanbul - TURKEY.
5. **Sonuç E.**, Sen B., Bayir S., "Solving Bin Packing Problem using Simulated Annealing", Proceedings of 65th ISERD International Conference, Mecca, Saudi Arabia, 23rd -24th January 2017, ISBN: 978-93-86291-92-96th.
6. Sen B., Sen B., **Sonuç E.**, Topcu S., Krichak S.O., Kilinc R., "Assessing the capturing capacity of RegCM4 for the precipitation over Med-CORDEX using boundary data with higher resolution and improved accuracy", 6th ICTP Workshop on The Theory and Use Of Regional Climate Models, 7-18 May 2012, Trieste - ITALY.
7. **Sonuç E.**, Sen Ba., Sen Bu., "Verifying Regional Climate Model Results With Web-Based Expert-System", 1st World Conference on Innovation and Software Development Bahcesehir University, 02-04 September 2011, Istanbul - TURKEY.
8. Menemencioglu O., Sen B., Atasoy F., **Sonuç E.**, "LMS (Moodle) Automatic Enrollment Approach by Flat File With Student Information System Data", 2nd World Conference On Information Technology, 22-27 November 2011, Antalya - TURKEY.

National Conference Publications:

1. **Sonuç E.**, Sen B., Bayir S., "Simulated Annealing Method For Solving Traveling Salesman Problem Using Parallel Computing, Akademik Bilişim 2015, 04-06 Şubat 2015, Eskişehir.
2. **Sonuç E.**, ORTAKCI Y., ELEN A., "Android Application of Karabuk University Information System", Akademik Bilişim 2013, 23-25 January 2013, Antalya - TURKEY
3. Menemencioglu O., **Sonuç E.**, Karas I.R., Orak I.M., "Academic Curriculum Vitae Based Faculty Information System", Akademik Bilişim 2013, 23-25 January 2013, Antalya - TURKEY.
4. Sen B., Kilinc R., Sen B., **Sonuç E.**, "RegCM4 Climate Model Precipitation Verification For Niğde Region", 2-4 October 2013, İç Anadolu Bölgesi 1. Tarım ve Gıda Kongresi, Niğde-TURKEY.

Projects:

1. Researcher, Karabuk University, SRCU, Project Number: KBÜ-BAP-15/2-DR-027, Project Name: "Parallelization of Simulated Annealing Algorithm on Graphics Processing Unit and Its Implementation on NP-hard Problems", 2017
2. Researcher, Karabuk University, SRCU, Project Number: KBÜ-BAP-C-11-Y-016, Project Name: "Verification Of Regcm4 Regional Climate Model Data", 2011