

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
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, Technological Applied Sciences
Reviewer, Duzce University Journal of Science & Technology
Reviewer, Akademik Bilişim Conference

International Journal Publications:

1. **Sonuc, 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. **Sonuc, 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. **Sonuc, 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., **Sonuc 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. **Sonuc 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.
2. **Sonuc 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.
3. **Sonuc E.**, "An Efficient Heuristic for Subset Sum Problem", International Conference on Mathematics and Engineering (ICOME), 10-12 May 2017, Istanbul – TURKEY.
4. **Sonuc 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.
5. Sen B., Sen B., **Sonuc 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.
6. **Sonuc 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.
7. Menemencioglu O., Sen B., Atasoy F., **Sonuc 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. **Sonuc 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. **Sonuc E.**, ORTAKCI Y., ELEN A., "Android Application of Karabuk University Information System", Akademik Bilişim 2013, 23-25 January 2013, Antalya – TURKEY
3. Menemencioglu O., **Sonuc 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., **Sonuc 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