Morteza Alinia Ahandani

Phone: +98 9119465164 alinia@tabrizu.ac.ir

OBJECTIVE

Control and Instrumentation Engineer

EDUCATION

B.S., Electronic Engineering — **Azad University**
M.S., Control Engineering — **Tabriz University**

SKILLS

- ✓ **Professional Experience**
- ✓ Seconbest certificat in **Siemens PLCs**
- ✓ Ability to work with **PLCs** such as **Siemens**
- ✓ Sound ability to use electrical testing equipment, i.e., multi-meter and oscilloscope, and how to apply these skills in problem solving applications.
- ✓ Ability To design & program **PIC** & **8051** microcontroller.
- ✓ Ability to employ the Internet to conduct technical research, specify and locate electronic hardware component information.

SOFTWARE SKILLS

- ✓ Ability of programming in Matlab, QBasic , Assembly.
- ✓ Ability of working with Electronic utility software such as PSpice, Proteus, and also Office.
- ✓ Ability of designing and programming microcontrollers such as PIC, 8051

PUBLICATIONS

❖ Journal Papers

- [1] Ahandani, Morteza Alinia. "Opposition-based learning in the shuffled bidirectional differential evolution algorithm." *Swarm and Evolutionary Computation* 26 (2016): 64-85.
- [2] Ahandani, Morteza Alinia., Seyyed Sadegh Bibak Sareshkeh. "Diversifying Search Moves in a Shuffled Differential Evolution Algorithm." *International Journal of Computational Intelligence and Applications* 15 (2016): 1650002.
- [3] Ahandani, Morteza Alinia, and Hosein Alavi-Rad. "Opposition-based learning in shuffled frog leaping: An application for parameter identification." *Information Sciences* 291 (2015): 19-42.
- [4] Ahandani, Morteza Alinia. "A diversified shuffled frog leaping: An application for parameter identification." *Applied Mathematics and Computation* 239 (2014): 1-16.
- [5] Vakil-Baghmisheh, Mohammad-Taghi, and Morteza Alinia Ahandani. "A differential memetic algorithm." *Artificial Intelligence Review* 41.1 (2014): 129-146.
- [6] Ziabakhsh, Soheyl, Hosein Alavi-Rad, Morteza Alinia Ahandani. "DESIGN AND OPTIMIZATION OF A FULLY DIFFERENTIAL CMOS VARIABLE-GAIN LNA WITH DIFFERENTIAL EVOLUTION ALGORITHM FOR WLAN APPLICATIONS." *Journal of Circuits, Systems, and Computers* 23.09 (2014).

- [7] Ahandani, Morteza Alinia, and Hosein Alavi-Rad. "Hybridizing Shuffled Frog Leaping and Shuffled Complex Evolution Algorithms Using Local Search Methods." *International Journal of Applied Evolutionary Computation (IJAEC)* 5.1 (2014): 30-51.
- [8] Ahandani, Morteza Alinia, Mohammad-Taghi Vakil-Baghmisheh, and Mohammad Talebi. "Hybridizing local search algorithms for global optimization." *Computational Optimization and Applications* 59.3 (2014): 725-748.
- [9] Ahandani, Morteza Alinia, and Mohammad Taghi Vakil Baghmisheh. "Hybridizing Genetic Algorithms and Particle Swarm Optimization Transplanted into a Hyper-Heuristic System for Solving University Course Timetabling Problem." *WSEAS Transactions on Computers* 12.3 (2013).
- [10] Ahandan, Morteza Alinia, Hosein Alavi-Rad, and Nooreddin Jafari. "Frequency modulation sound parameter identification using shuffled particle swarm optimization." *International Journal of Applied Evolutionary Computation (IJAEC)* 4.4 (2013): 62-71.
- [11] Ahandani, Morteza Alinia, and Nooreddin Jafari. "Probabilistic-Based Differential Evolution Algorithm." *Journal of Nature Inspired Computing* 1.1 (2013): 19-25.
- [12] Ahandani, Morteza Alinia, and Hosein Alavi-Rad. "Opposition-based learning in the shuffled differential evolution algorithm." *Soft Computing* 16.8 (2012): 1303-1337.
- [13] Ahandani, Morteza Alinia, et al. "Hybrid particle swarm optimization transplanted into a hyper-heuristic structure for solving examination timetabling problem." *Swarm and Evolutionary Computation* 7 (2012): 21-34.
- [14] Ahandani, Morteza Alinia, Naser Pourqorban Shirjoposh, and Reza Banimahd. "Three modified versions of differential evolution algorithm for continuous optimization." *Soft Computing* 15.4 (2010): 803-830.

❖ International Conference Papers

- [1] Ahandani, Morteza Alinia, Reza Banimahd, and Naser Pourqorban Shrjoposht. "Solving the parameter identification problem using shuffled frog leaping with opposition-based initialization." *1st International eConference on Computer and Knowledge Engineering, Mashahd, Iran* (2011): 49-53.
- [2] Ahandani, Morteza Alinia, and Mohammad-Taghi Vakil-Baghmisheh. "Examination timetabling using a hill climbing with combined neighbourhood structure." *1st International eConference on Computer and Knowledge Engineering, Mashahd, Iran* (2011): 45-48.
- [3] Ahandani, Morteza Alinia, and Mohammad Taghi Vakil Baghmisheh. "Memetic Algorithms for Solving University Course Timetabling Problem." *1st International eConference on Computer and Knowledge Engineering, Mashahd, Iran* (2011)
- [4] Kashtiban, A. M., and Morteza Alinia Ahandani. "Various strategies for partitioning of memeplexes in shuffled frog leaping algorithm." *Computer Conference, 2009. CSICC 2009. 14th International CSI*. IEEE, 2009.
- [5] Ahandani, Morteza Alinia, N. P. Shirjoposht, and R. Banimahd. "Job-shop scheduling using hybrid shuffled frog leaping." *Computer Conference, 2009. CSICC 2009. 14th International CSI*. IEEE, 2009.
- [6] Vakil Baghmisheh, M. T., Morteza Alinia Ahandani, and M. Talebi. "Frequency modulation sound parameter identification using novel hybrid evolutionary algorithms." *Telecommunications, 2008. IST 2008. International Symposium on*. IEEE, 2008.