

Faculty C.V.

1. **Name** Mohamad K Abdallah

2. **Academic Rank** Assistant Professor

3. **Degrees**

- PhD in Applied Mathematics, Oakland University, (2011-2015)
- MA in Mathematics, Oakland University, (2009-2011)
- BS in Mathematics, University of Michigan, (2007, 2009)

4. **Service at this Institution**

- August 2017- present: assistant professor of Mathematics

5. **Professional Experience**

- Special Lecturer, Oakland University, September 2015 – July 2017
- Adjunct Online Professor, Ashland University, October 2015 – July 2017
- Adjunct Instructor, Henry Ford College, June 2016 - May 2017
- Graduate Teaching Associate, Oakland University, January 2012 - May 2015

6. **Publications**

Refereed Journals.

1. Abdallah M. and Cheng E. (2014). Hamiltonian-Edge-Connectivity of 2-Tree Generated Networks. *Congressus Numerantium*, 220: 63-96.
2. Abdallah M. and Cheng E. (2018). Panconnectivity of 2-Tree Generated Networks. *Congressus Numerantium*, 230: 89-103.
3. Abdallah M. (2019). Edge-Fault-Tolerant Pancyclicity of 2-Tree Generated Networks. *International Journal of Computer Mathematics: Computer Systems Theory* 4: 140-150.
4. Abdallah M. and Cheng E. (2019). Conditional Strong Matching Preclusion of the Alternating Group Graph. *Theory and Applications of Graphs* 6(2), Article 5.
5. Hung C-N., Abdallah M., Weng J-I., and Kung T-L. (2020) Edge-Pancyclicity of Pancake Graph. *International Journal of Computer Mathematics: Computer Systems Theory*, 5:3, 125-133
6. Abdallah, M. and Cheng, E. (2021). The Conditional Strong Matching Preclusion of Augmented Cubes. *Theory and Applications of Graphs* 8(1), Article 5.
7. Abdallah, M. and Hung, C. (2021). Neighbor Connectivity of the Alternating Group Graph. *Journal of Interconnection Networks*. Vol. 21, No. 03, 2150014.

Conferences.

1. Abdallah M., Hung C-N. and Chiu S-J (2019). The Edges Fault-Tolerance of Paths Embedding in Pancake Graphs. *Workshop on Consumer Electronic*, p.069-1~069-5

Membership in Professional Societies

7. Honors and awards

- Research Assistantship, Oakland University, Summer 2014
- Graduate Teaching Assistantship, Oakland University, January 2012-May 2015
- King-Chavez-Parks Fellowship, State of Michigan, September 2010-May 2015.

8. Courses taught

a) Academic Courses

1. Introduction to Modern Mathematics, 3 credit hours
2. College Algebra, 3 credit hours
3. Discrete Mathematics, 3 credit hours
4. Preparatory Mathematics, 3 credit hours
5. Mathematics for Business, 3 credit hours
6. Discrete Mathematics, 3 credit hours
7. Calculus II, 3 credit hours
8. Graph Theory and Combinatorics, 3 credit hours
9. Calculus I, 3 credit hours
10. Advanced Engineering Math, 4 credit hours
11. Precalculus, 3 credit hours
12. Differential Equations, 3 credit hours
13. Calculus III, 3 credit hours

9. Other Duties

- a) Department:
 - Math Committee
- b) College level:
 - Grade Appeal Committee
- c) Institution level
 - Professional Development Committee