Curriculum Vitae

April 1, 2022

Personal Information

- Family Name: Salama サラマ Given Name: Shady シャディ
- E-Mail Address: shady@rieb.kobe-u.ac.jp

Educational Background

- 09/2008 – 08/2013: Bachelor's degree in Production Engineering & Mechanical Design - Port Said University
- 02/2016 – 03/2018: Master's degree in Industrial Engineering and Systems Management - Egypt-Japan University of Science & Technology
- 10/2018 - 10/2019: Research student - Graduate School of System Informatics - Kobe University
- 10/2019 - Present: Doctoral student - Graduate School of System Informatics - Kobe University [Expected graduation date: October 2022]

Scholarships:

- 02/2016 – 01/2018: Mitsubishi Scholarship for master's degree.
- 04/2018 – 10/2022: Japanese Government (MEXT) Scholarship for PhD degree.

Work Experience

- 09/2013 - 09/2014: Demonstrator in the Higher Institute of Engineering & Technology, New Damietta, Egypt
- 10/2014 - 10/2015: Assistant Production Manager in Pinocchio Furniture Factory, New Damietta, Egypt
- 11/2021-2/2022: Part-time teaching assistant in ROOT program, Kobe University, Japan.

Internships:

- In 2010 for one month, Spanish Egyptian Gas Company, Damietta Port, Egypt.
- In 2011 for one month, Misr Fertilizers Production Company, Damietta Port, Egypt.
- In 2012 for one month: Methanex Corporation, Damietta Port, Egypt.
- In 2012 for one month: Port Said Shipyard, Port Fouad, Egypt.
- In 2012 for one month: Foamix Factory, New Damietta, Egypt.

Qualifications

- Able to work as part of a multidisciplinary team to schedule, perform, and interpret the results of numerical or practical experiments.

- Good experience in using operations research methods including mathematical modeling, simulation techniques, and machine learning techniques.
- Strong organizational and prioritizing skills with the ability to conduct research activities with minimal supervision.
- High verbal and personal communication skills as well as writing and presentation skills.

Languages

- Arabic: Mother tongue
- English: Fluent (IELTS: 7.0)
- Japanese: Beginner

Programming skills

- Mainly related to the use of Python as I have been using it for three years (during my PhD course). I used Python to develop a discrete event simulation model for a job shop floor.
- My research is based on enhancing the performance of the genetic programming algorithm, so I have been using the DEAP library for this task.
- I have good experience in using the following libraries as I use them frequently during my research activities:
  1. **Data processing and modeling:**

     NumPy, SciPy, Pandas, and SciKit-Learn libraries.

  2. **Data visualization:**

     Matplotlib and Seaborn libraries.

  3. **Statistics:**

     SciPy and Statsmodels libraries.
- Basic knowledge of other programming languages such as JavaScript, Java, and R as I used them for some limited tasks during my master's degree.

List of Research Achievements:

1. **Salama, Shady**, Mnale, Frobin; Park, Jaehyun, Abdelhalim, Alyaa, and Eltawil, Amr B., "Mobi-Manager: A Collaboration Platform for Production Management: the case of the Egyptian Furniture Industry" (2017). PACIS 2017 Proceedings. 177. https://aisel.aisnet.org/pacis2017/177 (peer-reviewed).
2. Mnale, Frobin, **Salama, Shady**, Park, Jaehyun, and Eltawil, Amr B., "MobDesctop: A Mobile Decision Support Application for Monitoring Real-time Container Terminals Operations" (2017). PACIS 2017 Proceedings. 113. https://aisel.aisnet.org/pacis2017/113 (peer-reviewed).
3. **Salama, Shady**, Alyaa Abdelhalim, and Amr B. Eltawil. "Mathematical Modeling Approaches to Solve the Line Balancing Problem." In ICORES, pp. 401-408. 2017 (peer-reviewed).

4. **Salama, Shady**, Alyaa Abdelhalim, and Amr B. Eltawil. "ASSEMBLY LINE BALANCING USING DISCRETE EVENT SIMULATION AND DESIGN OF EXPERIMENTS-A CASE STUDY IN A HOME APPLIANCES PRODUCTION LINE." In Proc. 47th Int. Conf. Comput. Ind. Eng, pp. 145-153 2018 (peer-reviewed).
5. Abdelkhak, Mohamed, **Salama, Shady**, and Amr B. Eltawil. "Improving efficiency of TV PCB assembly line using a discrete event simulation approach: a case study." In Proceedings of the 10th International Conference on Computer Modeling and Simulation, pp. 211-215. 2018 (peer-reviewed).
6. **Salama, Shady**, and Amr B. Eltawil. "A decision support system architecture based on simulation optimization for cyber-physical systems." Procedia Manufacturing 26 (2018): 1147-1158 (peer-reviewed).
7. **Salama, Shady**, Toshiya Kaihara, Nobutada Fujii, and Daisuke Kokuryo. "A hyper-heuristic framework using GP for dynamic job shop scheduling problem." In Proceedings of the 64th Annual Conference of the Institute of Systems, Control and Information Engineers (ISCIE), pp. 248-252. 2020.
8. **Salama, Shady**, Toshiya Kaihara, Nobutada Fujii, and Daisuke Kokuryo. "Automatic design of dispatching rules with genetic programming for dynamic job shop scheduling." In IFIP International Conference on Advances in Production Management Systems, pp. 399-407. Springer, Cham, 2020 (peer-reviewed).
9. **Salama, Shady**, Toshiya Kaihara, Nobutada Fujii, and Daisuke Kokuryo. "A Proposal on Dispatching Rule Generation Mechanism Using GP for Dynamic Job Shop Scheduling with Machine Breakdowns." In Scheduling Symposium 2020, pp. 155-160. 2020 (peer-reviewed).
10. **Salama, Shady**, Toshiya Kaihara, Nobutada Fujii, and Daisuke Kokuryo. "Evolving Dispatching Rules Using Genetic Programming for Multi-objective Dynamic Job Shop Scheduling with Machine Breakdowns." Procedia CIRP 104 (2021): 411-416 (peer-reviewed).
11. **Salama, Shady**, Toshiya Kaihara, Nobutada Fujii, and Daisuke Kokuryo. "A New Representation and Adaptive Feature Selection for Evolving Compact Dispatching Rules for Dynamic Job Shop Scheduling with Genetic Programming." In IFIP International Conference on Advances in Production Management Systems, pp. 646-654. Springer 2021 (peer-reviewed).
12. **Salama, Shady**, Toshiya Kaihara, Nobutada Fujii, and Daisuke Kokuryo. " A Multi-objective Approach with a Distance Metric in Genetic Programming for Job Shop Scheduling" It was submitted to the International Journal of Automation Technology (Accepted).
13. **Salama, Shady**, Toshiya Kaihara, Nobutada Fujii, and Daisuke Kokuryo. "A Novel Feature Selection for Evolving Compact Dispatching Rules Using Genetic Programming for Dynamic Job Shop Scheduling." It was submitted to the International Journal of Production Research (Proofreading before acceptance).
14. **Salama, Shady**, Toshiya Kaihara, Nobutada Fujii, and Daisuke Kokuryo. " Feature Selection Approach for Evolving Reactive Scheduling Policies for Dynamic Job Shop Scheduling Problem Using Gene Expression Programming." It was submitted to the International Journal of Production Research and is still (under review).

- Kindly refer to the following links for more information on the research interests and academic impact (citations, h-index, etc.):

  https://www.researchgate.net/profile/Shady-Salama

  https://scholar.google.com/citations?user=okijGPAAAAAJ&hl=en&oi=ao