

Andriansyah Hamid

 GitHub |  LinkedIn |  Website |  Email |  Mobile

EDUCATION

King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia <i>PhD in Industrial and Systems Engineering</i>	2022–now
Bandung Institute of Technology, Bandung, Indonesia <i>MSc in Industrial Engineering & Management</i>	2013–2016
Universitas Syiah Kuala, Banda Aceh, Indonesia <i>BE in Mechanical Engineering</i>	2008–2012

EMPLOYMENT

Universitas Syiah Kuala, Banda Aceh, Indonesia <i>Lecturer, Industrial Engineering Department</i>	2016–2022
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TEACHING EXPERIENCE

Introduction to Data Science (ISE291), <i>Instructor, KFUPM</i>	2022
Operations Research I (TIN203), <i>Instructor, Universitas Syiah Kuala</i>	2016–2021
Operations Research II + Lab (TIN204), <i>Instructor, Universitas Syiah Kuala</i>	2016–2021
Supply Chain Management (TIN523), <i>Instructor, Universitas Syiah Kuala</i>	2016–2021
Industrial Systems Simulation + Lab (TIN307), <i>Instructor, Universitas Syiah Kuala</i>	2016–2021
Inventory Systems (TIUP23), <i>Instructor, Universitas Syiah Kuala</i>	2016–2021
Metaheuristics (TIUP24), <i>Instructor, Universitas Syiah Kuala</i>	2021

AWARDS & CREDENTIALS

2022	International Scholarship Awardee, <i>King Fahd University of Petroleum and Minerals, Saudi Arabia</i>
2021	1st Place, PEKERTI (Basic Instructional Skills Training), <i>Universitas Syiah Kuala</i>
2020	2nd Place, Basic Training for Civil Servant Candidates, <i>Universitas Syiah Kuala</i>
2016	Best Paper Award on Operational Research, <i>Universitas Gadjah Mada</i>
2013	Awardee of Higher Education Scholarship, <i>Ministry of Research, Technology and Higher Education, Republic of Indonesia</i>

PUBLICATIONS

JOURNAL ARTICLES

Andriansyah Hamid, Yasser Almoghathawi, Anas Alghazi, and Haitham Saleh (2025a). “Enhancing resilience in UAV swarms: A literature review”. In: *Journal of Safety Science and Resilience*. ISSN: 20967527. DOI: [10.1016/j.jnlssr.2025.100268](https://doi.org/10.1016/j.jnlssr.2025.100268).

Hudaifah, Hudaifah, **Andriansyah Hamid**, Khaled Al-Shareef, M.N. Darghouth, and Haitham Saleh (2024). “Genetic algorithm with normal boundary intersection for multi-objective early/tardy scheduling problem with carbon-emission consideration: a Pareto-optimum solution”. In: *Neural Computing and Applications* 36.5, pp. 2493–2506. ISSN: 09410643. DOI: [10.1007/s00521-023-09146-z](https://doi.org/10.1007/s00521-023-09146-z).

Sentia, Prima Denny, **Andriansyah Hamid**, Rizki Agam Syahputra, Chairil Akbar, and Wyona Allysha Rustandi Putri (2022). “System Dynamic Modeling: A Case Study of a Hotel Food Supply Chain”. In: *Jurnal RESTI* 6.4, pp. 521–527. ISSN: 25800760. DOI: [10.29207/resti.v6i4.4077](https://doi.org/10.29207/resti.v6i4.4077).

Riza, Medyan, Prima Denny Sentia, **Andriansyah Hamid**, and Abrar Muslim (2019). “Simulated annealing-based optimization of biodegradable plastic synthesis”. In: *International Review on Modelling and Simulations* 12.1, pp. 24–29. ISSN: 19749821. DOI: [10.15866/iremos.v12i1.15852](https://doi.org/10.15866/iremos.v12i1.15852).

UNDER REVIEW

Andriansyah Hamid, Yasser Almoghathawi, Anas Alghazi, and Haitham Saleh (2026a). “An improved cross-entropy algorithm for emergency logistics optimization in post-disaster conditions”. In.

Andriansyah Hamid, Yasser Almoghathawi, Anas Alghazi, and Haitham Saleh (2026b). “Integrated routing and scheduling formulation for post-disruption logistics networks with restoration”. In.

CONFERENCE PAPERS

Andriansyah Hamid, Yasser Almoghathawi, Anas Alghazi, and Haitham Saleh (2025b). “UAV Delivery in Interdependent Network: A Restoration Priority Model”. In: *Proceedings of International Conference on Computers and Industrial Engineering (CIE)*. Computers and Industrial Engineering, pp. 370–379.

Andriansyah Hamid, Yasser Almoghathawi, Haitham Saleh, and Anas Alghazi (2025). “Resilient Logistics: Strategic Planning for UAV Deliveries with Interdependent Networks”. In: *IISE Annual Conference and Expo 2025*. Institute of Industrial and Systems Engineers, IISE, pp. 149–154. DOI: [10.21872/2025IISE_5231](https://doi.org/10.21872/2025IISE_5231).

Andriansyah Hamid, A. Rahmi, and I. Ilyas (2020). “Using System Dynamic Model for Predicting Inventory of Rice Necessity”. In: *Journal of Physics: Conference Series*. Vol. 1569. 2. IOP Publishing Ltd. DOI: [10.1088/1742-6596/1569/2/022102](https://doi.org/10.1088/1742-6596/1569/2/022102).

Sentia, P.D., **Andriansyah Hamid**, R.D. Lufika, and M.J. Satria (2020). “The planning of iron sand inventory with System Dynamic Approach”. In: *IOP Conference Series: Materials Science and Engineering*. Vol. 931. 1. IOP Publishing Ltd. DOI: [10.1088/1757-899X/931/1/012015](https://doi.org/10.1088/1757-899X/931/1/012015).

Sentia, P.D., **Andriansyah Hamid**, and Z. Ulya (2020). “Disaster risk mitigation design for supply chain activities in Aceh: a case study”. In: *Journal of Physics: Conference Series*. Vol. 1569. 2. IOP Publishing Ltd. DOI: [10.1088/1742-6596/1569/2/022098](https://doi.org/10.1088/1742-6596/1569/2/022098).

Andriansyah Hamid, N. Alfadilla, P.D. Sentia, and D. Asmadi (2019). “Optimization of Nurse Scheduling Problem using Genetic Algorithm: A Case Study”. In: *IOP Conference Series: Materials Science and Engineering*. Vol. 536. 1. IOP Publishing Ltd. DOI: [10.1088/1757-899X/536/1/012131](https://doi.org/10.1088/1757-899X/536/1/012131).

Andriansyah Hamid, N. Prasanti, and H.Y. Sastra (2019). “Simulated annealing algorithm for solving pickup and delivery problem with LIFO, time duration and limited vehicle number”. In: *IOP Conference Series: Materials Science and Engineering*. Vol. 697. 1. IOP Publishing Ltd. DOI: [10.1088/1757-899X/697/1/012021](https://doi.org/10.1088/1757-899X/697/1/012021).

Dewi, S.S., **Andriansyah Hamid**, and S. Syahriza (2019). “Optimization of Flow Shop Scheduling Problem using Tabu Search Algorithm: A Case Study”. In: *IOP Conference Series: Materials Science and Engineering*. Vol. 506. 1. IOP Publishing Ltd. DOI: [10.1088/1757-899X/506/1/012064](https://doi.org/10.1088/1757-899X/506/1/012064).

Prasanti, N., **Andriansyah Hamid**, and F. Fitriadi (2019). “Local search algorithm for solving periodic location routing problem”. In: *IOP Conference Series: Materials Science and Engineering*. Vol. 697. 1. IOP Publishing Ltd. DOI: [10.1088/1757-899X/697/1/012020](https://doi.org/10.1088/1757-899X/697/1/012020).

Riza, M., S. Syaubari, **Andriansyah Hamid**, R. Dewi, and L. Ernita (2019). “Optimization of biodegradable plastic production using response surface methodology”. In: *IOP Conference Series: Materials Science and Engineering*. Vol. 673. 1. IOP Publishing Ltd. DOI: [10.1088/1757-899X/673/1/012016](https://doi.org/10.1088/1757-899X/673/1/012016).

Andriansyah Hamid, Nissa Prasanti, and Prima Denny Sentia (2018). “Pickup and delivery problem with LIFO, time duration, and limited vehicle number”. In: *MATEC Web of Conferences*. Vol. 204. EDP Sciences. DOI: [10.1051/mateconf/201820407003](https://doi.org/10.1051/mateconf/201820407003).

Sentia, Prima Denny, Nissa Prasanti, **Andriansyah Hamid**, and Rizfa Ramadhani Pulungan (2018). “Evaluation of random parking layout SBA mall using integer linear programming”. In: *MATEC Web of Conferences*. Vol. 204. EDP Sciences. DOI: [10.1051/mateconf/201820402008](https://doi.org/10.1051/mateconf/201820402008).

PRESENTATIONS & TALKS

2017 Invited Speaker, Vehicle Routing Problem for Post-Disaster Response, *Badan Penanggulangan Bencana Aceh (BPBA), Indonesia*

SKILLS

Programming Python, Julia, MATLAB
Optimization Gurobi, CPLEX
Typesetting \LaTeX