

Research  
Management for  
Publishing in  
Scopus Q1  
Journals

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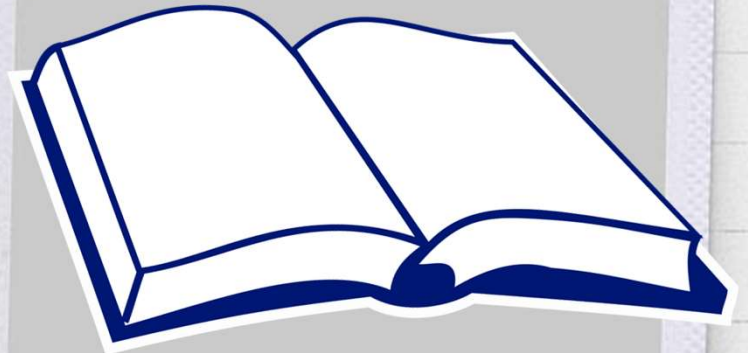
LPPM UNSERA,  
June 18, 2020

Ivan Kristianto Singgih

Postdoctoral Researcher

Dept. of Industrial and Systems  
Engineering

KAIST, Korea



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## My background:

- Research Interests:
  - Logistics systems (container terminal, drone routing)
  - Operations Research
  - Serious game development
  - Smart systems (smart city, smart port, smart manufacturing)
- Skills:
  - Mathematical modeling and algorithm development
  - Simulation: Tecnomatix Plant Simulation, ARENA
  - Programming language: Java (Eclipse Juno), MATLAB, C++ (Visual Studio), Python
  - Mathematical model solver: LINGO, CPLEX

## Published Scopus Q1 Journal Papers:

Singgih, I. K., Yu, O., Kim, B.-I., Koo, J., and Lee, S., "Production Scheduling Problem in a Factory of Automobile Component Primer Painting", **Journal of Intelligent Manufacturing** (SCIE; Impact Factor: 3.535), doi: 10.1007/s10845-019-01524-6, in press.

Singgih, I. K., Lee, J., and Kim, B.-I., "Node and Edge Drone Surveillance Problem With Consideration of Required Observation Quality and Battery Replacement", **IEEE Access** (SCIE; Impact Factor: 4.098), Vol 8, pp. 44125-44139, doi:10.1109/ACCESS.2020.2976122.

## Published Scopus Q2 Journal Papers:

Singgih, I. K. and Kim, B.-I., "Multi-Type Electric Vehicle Relocation Problem Considering Required Battery-Charging Time", **European Journal of Industrial Engineering** (SCIE; Impact Factor: 1.193), Vol 14(3), pp. 335-368, doi: 10.1504/EJIE.2020.107697.

Singgih, I. K., Jin, X., Hong, S., and Kim, K. H., 2016, "Architectural Design of Terminal Operation System for Container Terminal Based on New Concept", **Industrial Engineering & Management Systems**, Vol 15, No 3, pp. 278-288.

Singgih, I. K. Hong, S., and Kim, K. H., 2016, "Flow Path Design for Automated Transport Systems in Container Terminals Considering Traffic Congestion", **Industrial Engineering & Management Systems**, Vol 15, No 1, pp. 19-31.

Singgih, I. K. and Lee, G. M., 2014, "Lower and Upper Bounds for Military Deployment Planning Considering Combat", **International Journal of Industrial Engineering**, Vol. 21, No. 6, pp. 408-420 (SCIE; Impact Factor: 0.385).

## Reviewer in the following Scopus journals:

- IEEE Access (Q1)
- International Journal of Industrial Engineering (Q2)
- European Journal of Industrial Engineering (Q2)
- Industrial Engineering & Management System (Q2)
- Journal of Industrial and Production Engineering (Q2)

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Source title ↓	CiteScore ↓	Highest percentile ↓	Citations 2018 ↓	Documents 2015-17 ↓	% Cited ↓
<input type="checkbox"/> 1 Journal of Intelligent Manufacturing	4.2	89% 35/324 Industrial and Manufacturing Engineering	1,307	311	86

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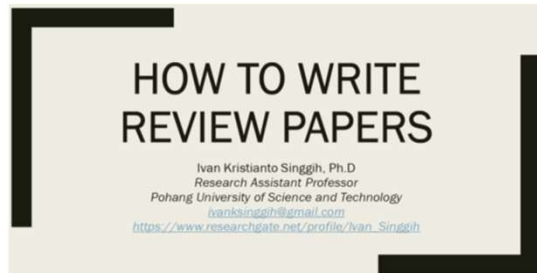
What are the basic requirements for any acceptable papers?



# Acceptable paper

## New problem

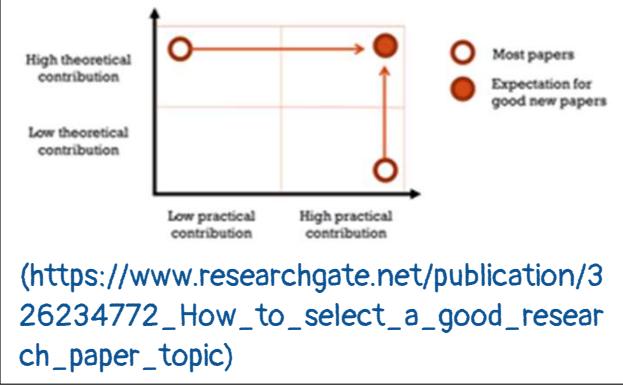
A problem that has not been studied ever yet\*.



([https://www.researchgate.net/publication/332704733\\_How\\_to\\_Write\\_Review\\_Papers](https://www.researchgate.net/publication/332704733_How_to_Write_Review_Papers))

## Novel or better solution method

(1) Never been proposed methods  
(2) Methods used for solving other topics (outperforms state-of-the-art methods\*)



*\*requires an extensive literature review, easier if we work on a specific field*

# Steps

Select the  
appropriate  
target journal

Study  
some  
papers

Submit  
paper  
and  
revise



<https://www.springer.com/journal/10845/aims-and-scope>

[Journal home](#) > Aims and scope



## Journal of Intelligent Manufacturing

### Aims and scope

Published eight times per year, *Journal of Intelligent Manufacturing* provides a unique international forum for developers of intelligent manufacturing systems. By publishing quality refereed papers on the applications of artificial intelligence in manufacturing, the Journal provides a vital link between the research community and practitioners in industry.

In addition to research papers, *Journal of Intelligent Manufacturing* presents:

- Articles on new methodologies and developments
- Case studies
- Surveys
- Tutorials on topics related to product design and manufacturing
- Special issues.

<https://www.springer.com/journal/10845>

3.535 (2018)

Impact factor

3.657 (2018)

Five year impact factor

39 days

Submission to first decision

188 days

Submission to acceptance



# Journal of Intelligent Manufacturing

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Article

## An effective metaheuristic algorithm for flowshop scheduling with deteriorating jobs

The deterioration effect in flowshop scheduling has gained a growing concern from the ...m-machine ( $m > 3$ )

Hongfeng Wang, Min Huang, Junwei Wang in *Journal of Intelligent Manufacturing* (2019)

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<https://www.springer.com/journal/10845/updates/17801848>



Journal of Intelligent Manufacturing

## Call for Papers on New Trends in Sustainable and Green Manufacturing

New advanced trends with sustainable measures is the need of the hour, by adopting some methods like lean manufacturing process, zero emission strategies, implementing Internet of things, using advanced embedded technologies in industries with environmental management systems and many more can improve the manufacturing process sustainably. This special issue on "New trends in Sustainable and Green Manufacturing" will focus towards building a product life cycle process with sustainable development and by adopting green manufacturing standards which can be applied across any manufacturing domain. The following topics are welcome but not restricted to:

- Principles, Applications and Directions of Sustainable Manufacturing
- Drivers and barriers for implementation of Sustainable and Green strategies in manufacturing companies
- The Adoption of Sustainable Manufacturing Practices as a successful Business Strategy
- The impacts of lean production integrated with IoT for achieving green manufacturing standard
- A review on Methodology and its Application on Green Manufacturing
- Futuristic possibilities of adopting environmentally conscious manufacturing process
- Role of IoT to enable Sustainability in Manufacturing Systems
- A study on the sustainable concept of zero-emission manufacturing
- Recent trends in low carbon manufacturing strategies and systems
- Advances in Internet of Things (IoT) in green manufacturing
- A study on value creation by adopting sustainable design and manufacturing techniques
- Cause and Effects of implementing Internet of things for sustainability performance in manufacturing

# Our paper's appropriateness with the journal

## Research topic

e.g., scheduling, vehicle routing, location allocation problem, dispatching

## Type of solution method

e.g., (1) mathematical modeling solved using CPLEX/LINGO, (2) heuristic/algorithm/metaheuristics, (3) simulation

## Theoretical/practical contribution

e.g., problem complexity (theoretical), problem solving, case study (practical contribution)



# Open access (OA) vs non-OA journals

## OA journal

- X quick turn-around time, e.g. 4 weeks (for review)\*
- X more citations\*\*
- X article processing charges (e.g., \$1,750)\*\*\*

## Non-OA journal

- X "more review"
- X no processing charges



\* <https://ieeaccess.ieee.org/frequently-asked-questions/#:~:text=On%20average%2C%20the%20IEEE%20Access,receive%20the%20accept%2Freject%20notification.>

\*\* <https://www.springernature.com/gp/open-research/about/benefits>

\*\*\* <https://journals.ieeeauthorcenter.ieee.org/choose-a-publishing-agreement/open-access-rights-management/#:~:text=IEEE%20Access%20is%20a%20multidisciplinary,in%20IEEE%20Access%20is%20%241%2C750.>

# Study some papers

- X What kind of papers are acceptable?  
(paper contributions)
- X e.g., weekly 1.5 hour seminar with graduate students (2 weeks or less per paper)
  - X understanding problem & contributions
  - X learning methods
- X “We are what we eat (read)”
  - X read good journal papers -> publish in good journals



## Submit paper and revise

- X Collaborate with active researcher (proofread and improve paper)
  - X Need to continuously improve our research capability
- X Paper rejection experience (inappropriate scope, unsatisfactory contribution compared with the journal level)
  - X Revise paper and resubmit (rebuttal)
  - X Find more appropriate journal
  - X Good opportunity to get comments



# List of top journals

<https://ieyzhou.github.io/YanjieZhou/Miscellaneous.html>

Impact Factor of [2015, 2016] Paper Published in [2014, 2015]

## Operation Research & Management Science

1. Operation Research (OR) [1.777, 1.779] [92, 98]
2. Management Science (MS) [2.741, 2.822] [166, 172]
3. Omega: The International Journal of Management Science [3.962, 4.029] [ 93, 117]
4. Journal of Operations Management (JOM) [4.000, 5.207] [ 34, 48]
5. European Journal of Operational Research (EJOR) [2.679, 3.297] [635, 670]
6. Production Planning and Control [1.532, 2.369] [86, 82]
7. International Journal of Operations & Production Management (IJOPM) [2.252, 3.339] [55, 60]
8. Annals of Operations Research (AOR) [1.406, 1.709] [237, 223]
9. Mathematics of Operations Research (MOR)
10. Computers & Operations Research (COR)

<https://sites.google.com/site/logisticslaboratory/publication/Journal-articles>

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- ▼ Publication
  - Journal Papers (International)**
  - Journal Papers (Domestic)

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## Journal Papers (International)

[Citation summary](#)

Authors	Publication	Journal	Year
Sort ▼	Sort ▼	Sort ▼	Sort ▼
55. H. Kim, M. Eom, B.Kim*	Development of Strategic Hydrogen Refueling Station Deployment Plan for Korea	International Journal of Hydrogen Energy (SCIE)	2020 (In Press)
54. J. Park, B.Kim*	Classification code assignment for a parcel distribution network	Computers and Industrial Engineering (SCIE), 144, 106447	June 1, 2020

Benchmark to  
journals targeted  
by top universities

# Useful research activities

## Networking and research collaboration

- X ResearchGate
- X Discussions in conferences
- X Postdoc activity

## Weekly research meeting progress (with all team members)

- X Ensure continuous progress
- X Verify correctness of research
- X Gathering fresh ideas



# Useful research activities



Offline seminars  
(with practitioners)

## DRONE REGULATORY SANDBOX FAIR

MARCH 7-8, 2019; 정부세종컨벤션센터

<https://event-us.kr/publicdrone/event/5747>

Suggested good topics:

- Using sun light as a power source?
- Drone art show/multiple flight of drones
- Anti-drone at area around the airport
- Perform observation at area with potential for crime
- Parcel delivery within city, emergency blood delivery
- Perform exploration during disaster period, e.g. fire at forest

**Research idea: Which direction is good for performing the observation and which direction is important when turning off the fire using water sprayed from the drone (considering wind directions and position of fire in relative to the are boundary of the forest)**

- Finding missing persons

[https://drive.google.com/file/d/1F2CAbSL-cCCdOgfSjTuO\\_UWpy8tNct7s/view?usp=sharing](https://drive.google.com/file/d/1F2CAbSL-cCCdOgfSjTuO_UWpy8tNct7s/view?usp=sharing) (1 week)

Always learn to define and list new  
research topics

(e.g., anti-drone jammer location problem, economic development related with goods flow from Western-Eastern Indonesia)

# Useful research activities

SCIP Optimization Suite

SCIP SoPlex ZIMPL UG GCG

Documentation

## SCIP

Solving Constraint Integer Programs

Organiser

### SCIP Online Workshop 2020

Date: 3rd and 4th June 2020  
Organizer: Stephen J. Maher

UNIVERSITY OF EXETER

#### About the SCIP Workshop

We are happy to announce our upcoming workshop to:

- students (undergraduate and postgraduate)
- researchers who already use SCIP

talks.discreteopt.com

## Discrete Optimization Talks (DOTs)

Home Upcoming Past Calendar

DOTs are virtual discrete optimization talks, organized by Aleksandr M. Kazachkov and Elias B. Khalil. To receive updates about upcoming DOTs, please join our mailing list. If you would like to give a DOT, please fill out this [form](#) or [email us](#).

List of good seminars: <https://akazachk.github.io/>

Interesting and novel  
solution methods

International  
research standards

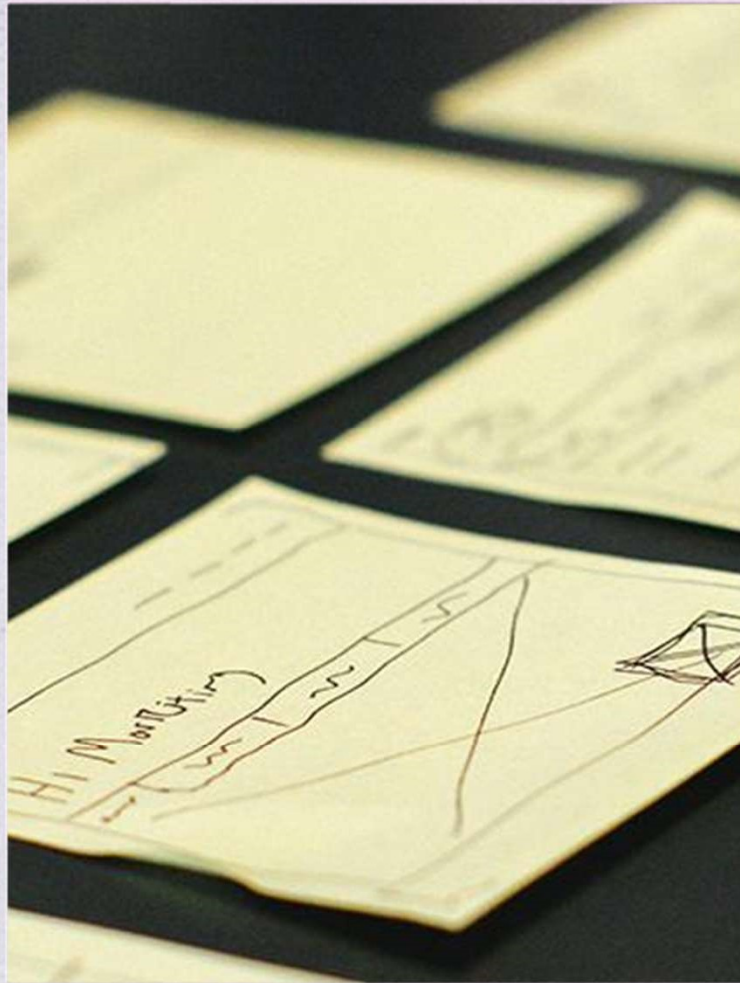
More online seminars and  
discussions through slack

New research  
collaborations

Online (free) seminars given by leading researchers



Contribute to  
society



Continuous effort and  
learning



Inspire and be  
inspired



# Thank you

## Any questions?

You can find me at:

X [ivanksinggih@gmail.com](mailto:ivanksinggih@gmail.com)

X [https://www.researchgate.net/profile/Ivan\\_Singgih](https://www.researchgate.net/profile/Ivan_Singgih)

