

Topics

- Linear Programming and the Simplex Method
- Sensitivity Analysis and Duality
- Transportation, Transshipment, and Assignment Problems
- Network Models
- Integer Programming
- Nonlinear Programming

- Decision Making under Uncertainty
- Game Theory
- Inventory Theory
- Markov Chains
- Dynamic Programming
- Queuing Theory



Target Audience and Prerequisites

- Upper-level undergraduate students (Juniors and Seniors)
- Graduate students majoring in industrial engineering, systems science, computer science, mathematics, business, management science, and economics
- Other students who need an overview of the main topics in operations research and management science
- OR professionals in various industries
- Algebra, Calculus, Probability, and Statistics

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Textbooks

- Wayne Winston, Operations Research: Applications and Algorithms, 4th Edition, 2004
- Frederick Hillier, Gerald Lieberman, Introduction to Operations Research, 10th Edition, 2014
- Hamdy Taha, Operations Research: An Introduction, 9th Edition, 2011

OR Journals and Papers

- Journal Citation Report (Subscription)
 - (http://jcr.incites.thomsonreuters.com)
- SJR Journal Ranking (Free)
 - (http://www.scimagojr.com)
- Web of Science (Subscription)
 - (http://apps.webofknowledge.com)
- Science Direct (Subscription)
 - (http://www.sciencedirect.com)
- Google Scholar (Free, sometimes)
 - (http://scholar.google.com)

SUB

OR Society and Conferences

- IISE Industrial & Systems Engineering Research Conference (ISERC)
 - May 20-23, 2017, Pittsburgh, Pennsylvania
 - May 19-22, 2018, Orlando, Florida
 - May 18-21, 2019, San Juan, Puerto Rico
- INFORMS International Conference
 - Jun. 12-15, 2016, Waikoloa, Hawaii
 - Jun. 9-12, 2019, Cancun, Mexico
- INFORMS Annual Meeting
 - Oct. 22-25, 2017, Houston, Texas
 - Nov. 4-7, 2018, Phoenix, Arizona
 - Oct. 20-23, 2019, Seattle, Washington

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Operations Research Analyst

- Indeed.com
 - (https://www.indeed.com/jobs?q=operations+research+analyst)



- Some statistics from U.S. Dept. of Labor
 - (http://www.bls.gov/oes/current/oes152031.htm)

