



Seminar

Sharing on Research and Submission Experience

Dept. of Industrial Eng. & Management

Yuan Ze University March 16, 2009

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Sharing on Research and Submission Experience

□ Research and Submission

Phase 1. Publication Record

- 1. Decide research topic and find research papers from SCI or SCIE class journals.
- 2. Read them for reviewing and report some new idea to discuss.
- 3. Present the draft at conferences and submit a manuscript to

Phase 2. Citation Score & Research Fund

- 1. Check papers published with cited refence by Scopus-Elsevier. Google, MathSciNet, etc.
- 2. Citation score by QuadSearch, etc.
- 3. Public research fund

Phase 3. Social/Industrial Contribution

- 1. Commercial-based Product, Software, etc.
- 2. Research project



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□ Social Activity & Project

1. Society Activity

- 1. Directorate Members: JIMA, RESJ, SOPEJ, JSLS, SOFT, etc.
- 2. President of APIEMS (Asia-Pacific Industrial Engineering & Management Society, 2002.1-2003.12)
- 3. IEEJ SIG-Evolutionary Technology & Applications (2005.4-2009.3)
- 4. Conference Chair/Co-Chair: C&IE. ANNIE, GECCO, IML, ILS, APIEMS,

2. Journal: Editorial Board Member

- 1. Industrial Engineering & Management Systems: Editor-in-Chief (2009.1.-) 2. Computers and Industrial Engineering: Area Editor
- 3. OR Spectrum: Editorial Board
- 4. Inter. J. of Logistics: Editorial Board
- 5. Inter. J. of Manufacturing Technology and Management: Editorial Board

3. Research Project

- 1. Car Navigation System Toyota Motors
- 2. Maintenance Scheduling Plus Altra Co.
- 3. Intelligent Logistics System Nippon Steel Transportation Co., etc WASEDA UNIVERSITY, IPS

Publication: Professional Book



'Genetic Algorithms and Engineering Design"

by Mitsuo Gen and Runwei Chena

List Price: \$140.00

Our Price: \$140,00 Used Price: \$124.44

Availability: Usually ships within 2 to 3 days

Hardcover - January 7, 1997: 432 pages, John Wiley & Sons, NY

Table of Contents

Problems.

- Constrained Optimization
- □ Combinatorial Optimization Problems.
- Reliability Optimization Problems.
- ☐ Foundations of Genetic Algorithms. ☐ Flow-Shop Sequencing Problems.

amazon.com.

- Job-Shop Scheduling Problems.
- Machine Scheduling Problems.
- Transportation Problems.
- Facility Layout Design Problems.
- Selected Topics in Engineering Design.
- 汗定偉·唐加福·黄敏訳 **遺伝算法与工程設計** 科学出版社 1999

Publication: Professional Book



"Genetic Algorithms and Engineering Optimization"

(Wiley Series in Engineering Design and Automation)

by Mitsuo Gen and Runwei Chena

List Price: \$125.00 Our Price: \$125.00 Used Price: \$110.94



Availability: Usually ships within 24 hours

Hardcover - January 2000; 512 pages, John Wiley & Sons, NY

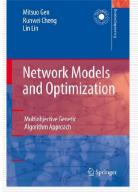
Table of Contents

- ☐ Foundations of Genetic Algorithms. ☐ Reliability Design Problems.
- Combinatorial Optimization Problems.
- Multiobjective Optimization Problems.
- □ Fuzzy Optimization Problems.
- 于歆杰·周根貴訳: 遺伝算法与工程優化, 清華大学出版社, 2004

- Scheduling Problems.
- Advanced Transportation Problems.
- Network Design and Routing
- Manufacturing Cell Design.

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Publication: Professional Book



Network Models and Optimization:

Multiobjective Genetic Algorithm Approach



2006-05-26 Okinawa, Japan

Mitsuo Gen, Runwei Cheng & Lin Lin

2008, Approx. 710 p. 512 illus., Hardcover ISBN: 978-1-84800-180-0

Available: August 1st, 2008 OUR COMPUTING Lab.

Soft Computing Lab.

Series: Decision Engineering



Models-Optimization-Multiobjective-Engineering/dp/1848001800/

amazon.com.

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Publication: Professional Book



http://www.springer.com/engineering/book/978-3-540-95977-9

Intelligent and Evolutionary Systems

Studies in Computational Intelligence, Volume 187, 2009

by Mitsuo Gen, David Green, Osamu Katai, Bob McKay, Akira Namatame, Ruhul A. Sarker, Byoung-Tak Zhang

Hardcover: 240 pages

Publisher: Springer; 1 edition (April 1, 2009)

anguage: English

ISBN: 978-3-540-95977-9

Keywords:

amazon.com.

\$118.55

Computational Intelligence, Evolutionary Systems,

Intelligent Systems

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Real World Projects based on GA

□ Recent Real World Projects in USA

- Optimization of off-lease vehicle logistics,
 - Bank of America, \$1.2 million.
- Distribution optimization of used vehicles, General Motors, \$1.3 million.
- Customer retention optimization, UPBC, \$1.5 million.
- Media optimization of book advertisements.

World Changers, \$2.4 million.

- Credit card fraud detection. Bank of America, \$240,000.
- Scheduling optimization of trains, BNSF, \$600,000.
- Customer behavior modeling, PKN Orlen, \$300,000.
- Investment strategy simulations,

U.S. Department of Defense, \$150,000.

 Scheduling optimization of armored cars and couriers. Wells Fargo, \$325,000.

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