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analysis (GRG),
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optimization WSM
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and multi
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Using
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**Better Machine
Learning Models
with Multi
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systematically

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presents several
multiobjective
optimization
methods

accompanied by
many analytical
examples. Each
method or

definition is
clarified, when
possible, by an
illustration.

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treats not only engineering problems, e.g in mechanics, but also problems arising in operations research and management.

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This text offers many multiobjective optimization methods accompanied by analytical examples, and it treats problems not only in engineering but also operations research and management. It

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explains how to
choose the best
method to solve
a problem and
uses three
primary
application
examples:...

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Yann Collette ,
Professor
Patrick Siarry
(auth.) From
whatever domain
they come,
engineers are
faced daily with
optimization
problems that
requires

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conflicting
objectives to be
met.

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Authors: Yann
Collette,
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problems are solved by using methods motivated by the immune system. In this paper, we modify the general-purpose heuristic method called extremal optimization. We compare our results with the results of

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reveal the importance of multi-objective optimization in practice. A number of research challenges are then highlighted. The chapter concludes by suggesting a few tricks of the

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trade and mentioning some key resources to the field of multi-objective optimization.

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Collette Y.,
Siarry P.

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Springer, 2004.
- 293 p.

"Multiobjective
optimization
allows a degree
of freedom,
which is lacking
in mono-
objective
optimization.
The book is
accessible to

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the novice and expert ... and can be used by students, engineers and scientists working in aerospace, automotive, and mechanical and civil engineering."

Collette Y.,
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Siarry P.
*Multiobjective
Optimization ...*

There is general
consensus that
multiobjective
optimization
methods can be
broadly
decomposed into
two categories:
Scalarization
approaches and
Pareto

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approaches. While different names are used for these categories, the fundamental discriminator is always the same. In the first group of methods the multiobjective problem is solved by

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translating it

Optimization

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This work
presents a novel
approach for
decision-making
for multi-
objective binary
classification
problems. . . .

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problems have

multiple

objectives,

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which mostly are conflicting in nature, and these problems can be solved through multi-objective optimization (MOO) procedure. In the presen...

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impulse . . .
Multi-objective
optimization
(also known as
multi-objective
programming,
vector
optimization,
multicriteria
optimization,
multiattribute
optimization or
Pareto
optimization) is

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an area of
multiple
criteria
decision making
that is
concerned with
mathematical
optimization
problems
involving more
than one
objective
function to be
optimized

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simultaneously.

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Notice that for
each such multi-
objective

optimization, a
solu-tion is
declaredfeasible
onlyif it is
feasible
underall

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scenarios. One criticism of this approach is the need for running multi-objective optimization multiple (K) times. There is also an issue with the decision-making procedure associated with

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the Multiobjective

Optimization

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Evolutionary

multi-objective

optimization

(EMO) has been a

major research

topic in the

field of evolu-

tionary

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computation for many years. It has been generally accepted that combination of evolutionary algorithms and traditional optimization methods should be a next generation multi-objective

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tools for
including
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(DM) preferences
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(MO) literature

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is the use of reference points and achievement scalarizing functions [A.P. Wierzbicki, The use of reference objectives in multiobjective optimization, in: G. Fandel, T. Gal (Eds.), Multiple-Criteria Decision Making

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