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techniques have found applications in areas of computer science ranging from graph drawing to frequency allocation in cellular networks.

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considerably older field of combinatorial geometry. For example, the combinatorial structure of a geometric problem usually decides which algorithmic method solves the problem most efficiently.

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Furthermore, the analysis of an algorithm often requires a great deal of combinatorial knowledge. As it turns out, however, the connection between the two research areas commonly referred to as

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Combinatorial geometry and combinatorial geometry is not as lop-sided as it appears. Indeed, the interest in computational issues in geometry gives a new and constructive direction to the

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transformations played an important role as they reveal connections between seemingly unrelated problems and thus help to structure the field.

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Historically,
there is a close
connection

between geometry
and
optimization.

This is
illustrated by
methods like the
gradient method
and the simplex
method, which
are associated

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with clear geometric pictures. In combinatorial optimization, however, many of the strongest and most frequently used algorithms are based on the discrete structure of the problems: the

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greedy combinatorial algorithm, shortest path and alternating path methods, branch-and-bound, etc. In the last several years geometric methods, in particular polyhedral combinatorics, have played a

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more and more
profound role in
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optimization as
well. Our book
discusses two
recent geometric
algorithms that
have turned out
to have
particularly
interesting
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Optimization, at least from a theoretical point of view.

These algorithms are able to utilize the rich body of results in polyhedral combinatorics.

The first of these algorithms is the ellipsoid method,

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developed for
nonlinear
programming by
N. Z. Shor, D.
B. Yudin, and A.
S. Nemirovskii.
It was a great
surprise when L.
G. Khachiyan
showed that this
method can be
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time, thus solving an important open theoretical problem. While the ellipsoid method has not proved to be competitive with the simplex method in practice, it does have some features which

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make it
particularly
suited for the
purposes of
combinatorial
optimization.
The second
algorithm we
discuss finds
its roots in the
classical
"geometry of
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Minkowski. This method has had traditionally deep applications in number theory, in particular in diophantine approximation.

In many applications of graph theory, graphs are

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regarded as
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objects drawn in
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surface. The
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arising in such
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