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describe the most  
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this early stage geometric  
transforms played an  
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seemingly unrelated problems  
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methods like the gradient  
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optimization, however, many of the strongest and most frequently used algorithms are based on the discrete structure of the problems: the greedy algorithm, shortest path and alternating path methods,

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algorithmic applications  
are able to  
utilize the rich body of  
results in polyhedral  
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these algorithms is the  
ellipsoid method, developed  
for nonlinear programming by  
N. Z. Shor, D. B. Yudin, and

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A. S. NemirovskiI. It was a great surprise when L. G. Khachiyan showed that this method can be adapted to solve linear programs in polynomial time, thus solving an important open theoretical problem. While

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the ellipsoid method has not proved to be competitive with the simplex method in practice, it does have some features which make it particularly suited for the purposes of combinatorial optimization. The second



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algorithmic we discuss finds  
its roots in the classical  
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