

Contents

1	Introduction and applications	5
2	Preliminaries and formulation of problem (\mathcal{P})	9
2.1	Formulation of problem (\mathcal{P})	9
2.2	Demands on an algorithm solving problem (\mathcal{P})	10
3	An algorithm solving problem (\mathcal{P})	16
3.1	A conceptional algorithm	16
3.2	An algorithm solving problem (\mathcal{P}) in the plane	17
3.3	Solving problem (\mathcal{P}) in three and higher dimensions	31
3.4	Complexity	49
3.4.1	Worst case analysis	49
3.4.2	Average case analysis	55
4	A 'hybrid'-algorithm solving problem (\mathcal{P})	56
5	Numerical results	59
	Appendix	68
	References	71