

Povzetek

Diplomsko delo obravnava algoritme za izračun konveksne ovojnice. Najprej je podanih nekaj definicij, ki so pomembne za razumevanje snovi. V drugem poglavju so prikazani algoritmi za izračun konveksnih ovojnic v dveh dimenzijah, v tretjem poglavju pa konveksne ovojnice v treh dimenzijah. Predstavljeni so poliedri in podatkovne strukture za predstavitev meje poliedra ter algoritmi za izračun konveksne ovojnice. Zadnje poglavje na kratko opiše konveksne ovojnice v višjih dimenzijah. Algoritmi so ilustrirani s primeri, dodana je tudi analiza časovne zahtevnosti.

Ključne besede: računska geometrija, konveksna ovojnica, politopi, poliedri, algoritmi, geometrijske podatkovne strukture.

Keywords: computational geometry, convex hull, polytopes, polyhedra, algorithms, geometric data structures.

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