

Guidelines for Student Reports

Confronto CSI-CFI

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Abstract

L'obiettivo del progetto è quello di confrontare i metodi Contrast Field Inversion (CFI) e Contrast Source Inversion (CSI) per i problemi di imaging. In particolare per ciascuno dei due metodi si considereranno i seguenti casi: - minimizzazione tramite Gradienti Coniugati (GC)

- minimizzazione tramite Particle Swarm Optimizer (PSO)
- minimizzazione tramite GC con approccio iterativo multizoom (IMSA)
- minimizzazione tramite PSO con approccio iterativo multizoom (IMSA)
- CFI-IMSA con minimizzazione tramite Gradienti Coniugati (CG)

I test (sia con dati simulati che sperimentali) case saranno presi dalla letteratura.

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