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Optimization algorithms for spectral coarse-graining of complex networks

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*Highlights (for review)

Highlights

- 1. A new viewpoint of coarse graining optimization is put forward.
- 2. Two optimization algorithms which are called variable step size op' miz tion algorithm (VSSOA) and variable scale optimization algorithm (VSOA) are proposed.
- 3. The optimal coarse-graining step size and optimal scale for several typix 1 networks are calculated, and the corresponding optimal coarse-grained networks are .erived.

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