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Abebaw Tadesse* (atadesse@lunet.edu), P.O.Box 126, Langston, OK 73050. *Ensemble Based Simulated Annealing as Applied to Conformal Radiotherapy Planning*. Preliminary report.

An overview of ensemble based simulated annealing(EBSA) as applied to conformal radiotherapy planning is discussed in the light of it's potential to reduce the existing computational drawbacks of sequential simulated annealing.It's suitability to MPI implementations is emphasized and this is illustrated on a 2D radiation planning over a simplified artificial geometry. (Received September 04, 2007)