Computer Science > Artificial Intelligence

Different goals in multiscale simulations and how to reach them

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In this paper we sum up our works on multiscale programs, mainly simulations. We ?rst start with describing what multiscaling is about, how it helps perceiving signal from a background noise in a ?ow of data for example, for a direct perception by a user or for a further use by another program. We then give three examples of multiscale techniques we used in the past, maintaining a summary, using an environmental marker introducing an history in the data and ?nally using a knowledge on the behavior of the di?erent scales to really handle them at the same time.

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