Kinetic Growth Random Walks

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Random walks are investigated since the 1950's and there
are quite a number of different models for them e.g.
the self-avoiding walk and the kinetic growth walk.
Here the kinetic growth walk is investigated in comparison
to existing and up to date knowledge and results for the self
avoiding walk. These comparisons were done on regular lattices
as well as on diluted lattices up to percolation clusters
yielding results that clearly support the distinction of
both models in all the cases stated above.