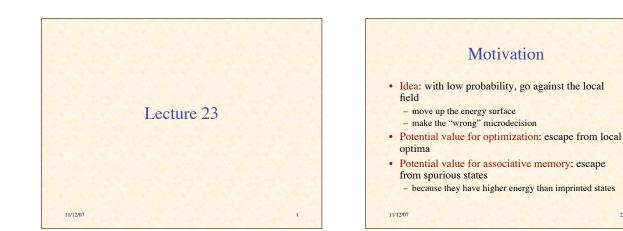
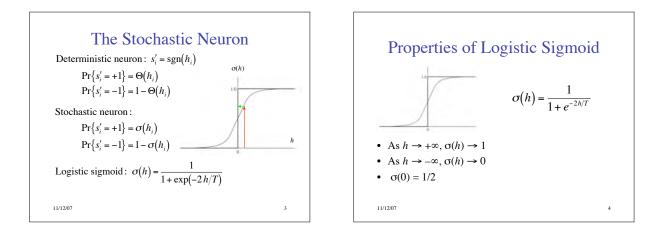
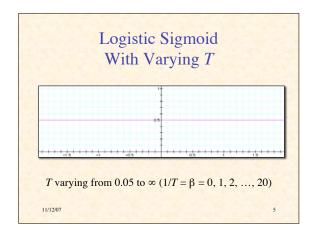
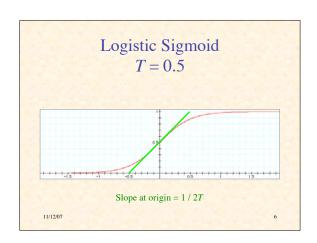
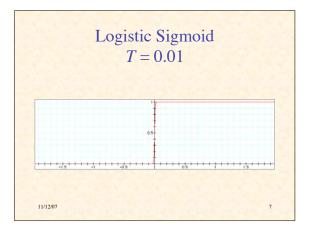
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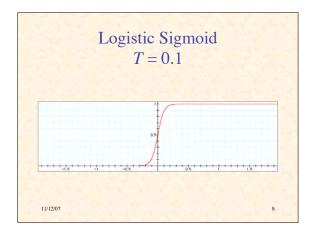


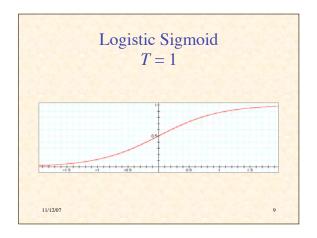


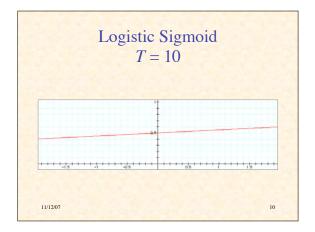


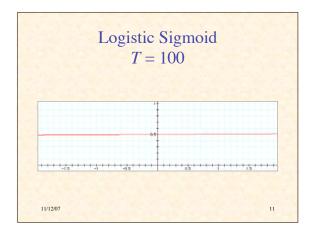


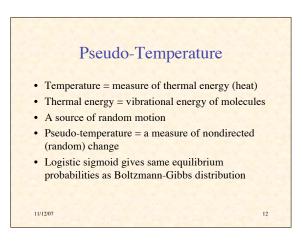


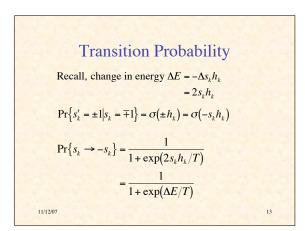


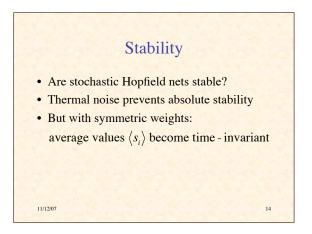


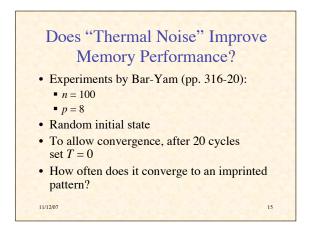


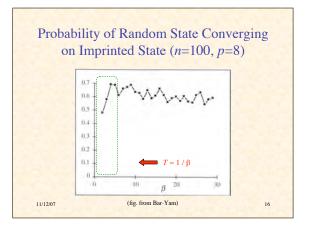


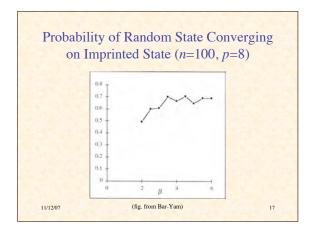


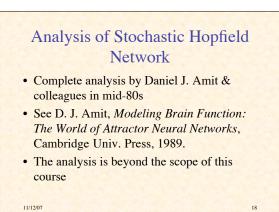


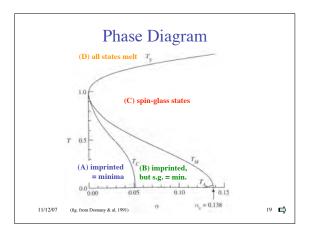


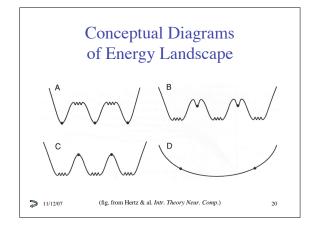


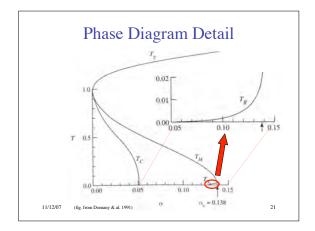


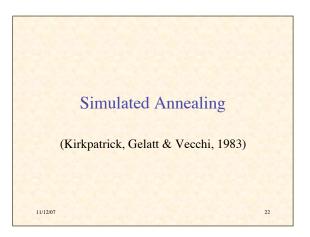












Dilemma

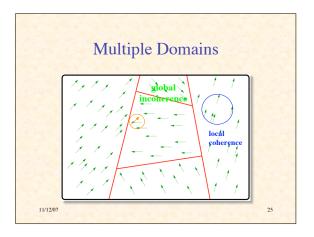
- In the early stages of search, we want a high temperature, so that we will explore the space and find the basins of the global minimum
- In the later stages we want a low temperature, so that we will relax into the global minimum and not wander away from it

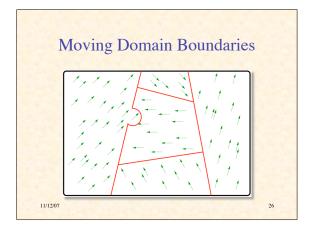
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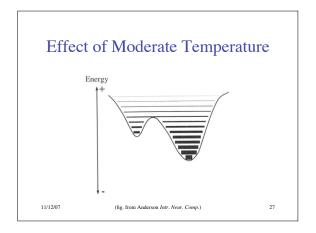
• Solution: decrease the temperature gradually during search

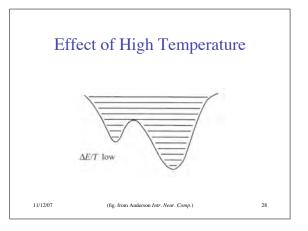
11/12/07

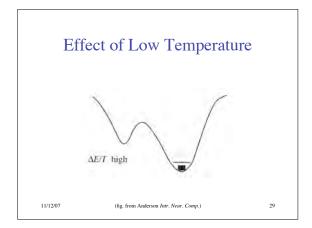
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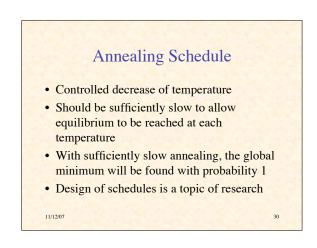












11/12/07

Typical Practical Annealing Schedule

- Initial temperature T_0 sufficiently high so all transitions allowed
- Exponential cooling: T_{k+1} = αT_k
 typical 0.8 < α < 0.99
 - at least 10 accepted transitions at each temp.
- Final temperature: three successive temperatures without required number of accepted transitions

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