Are graphs enough to reason about spatial-temporal properties?

Michele Loreti

Università di Camerino
School of Science and Technology

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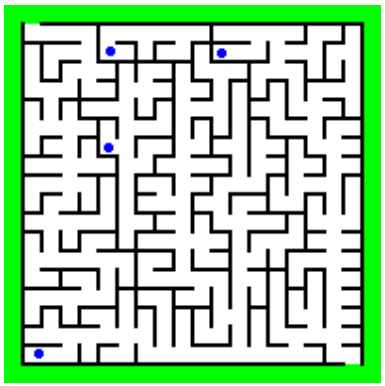

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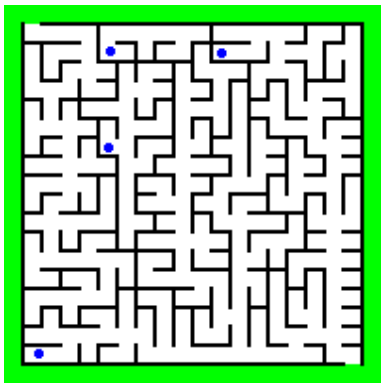

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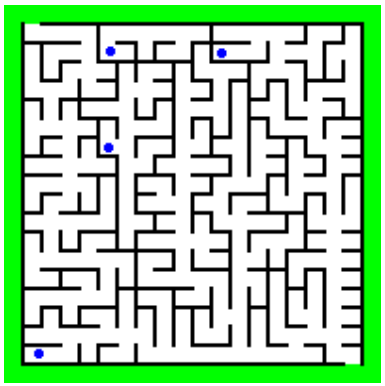

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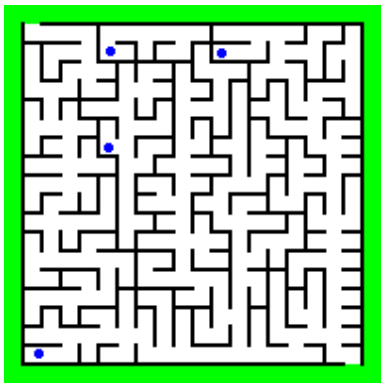

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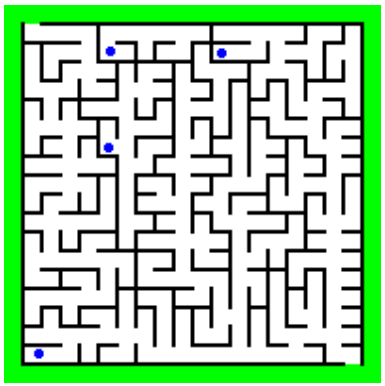

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- In this context an edge describes proximity without any info about distance.

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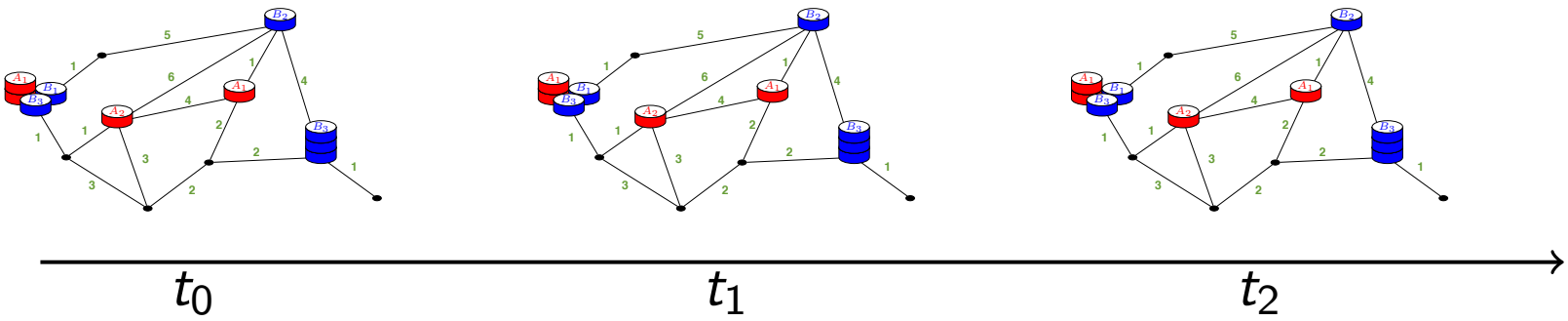

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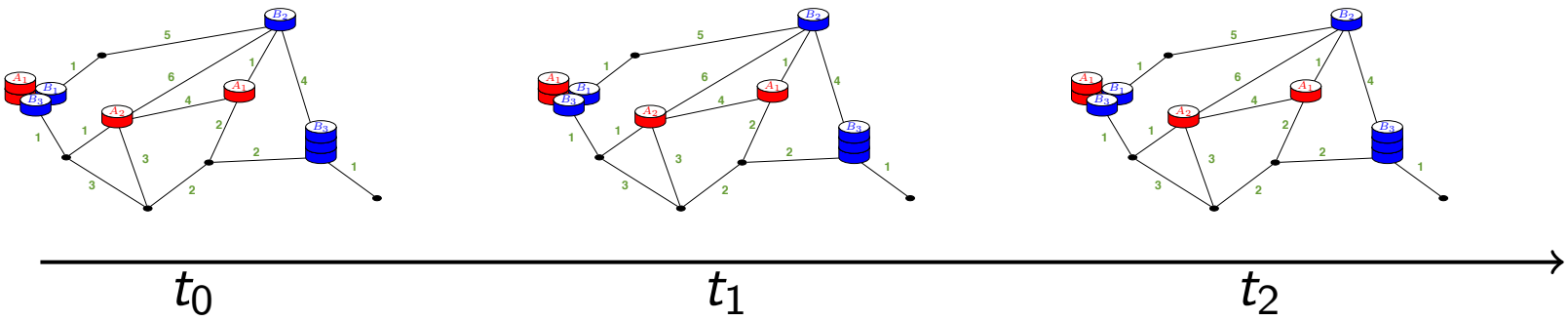

Spatio-temporal signals can be generated via standard simulation algorithms. Their properties *verified* via *monitoring algorithm* and *statistical model-checking*[2].

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- Q7: There is another mathematical model that allows us to combine expressivity and computational tractability?