

Modeling In Systems Biology: The Petri Net Approach (Computational Biology)

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Chapter 1 The role of modeling in systems biology Douglas B. Kell & Joshua D. Knowles The use of models in biology is at once both familiar and arcane.

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Modeling and Simulation in Systems Biology, MSSB, Virginia Tech Biomath REU, Virginia Bioinformatics Institute, VBI, 2013

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and Petri nets offer alternative ways of constructing computational systems biology models. Both Model checking is an approach that evaluates a

Figure 1. Hypothetical Network Illustrating Network Analysis and Dynamic Modeling Terminology. (A) The interaction graph formed by nodes A to F consists of directed

AGENT-BASED MODELING: DYNAMIC KNOWLEDGE REPRESENTATION. What is needed, then, is a means by which the mechanistic information that is generated at one level of basic

Research in systems biology requires the collaboration of researchers from diverse backgrounds, including biology, computer science, mathematics, statistics, physics

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