Abstract:

Energy informatics is emerging as a new field in which aspects of computer science and engineering sciences are converging. This process is driven by factors in both disciplines: From the point of view of engineering science, a growing demand in energy, rapidly dwindling natural resources, and climate change mean that power generation and distribution systems need to become dramatically more efficient and environmentally friendly. On the other hand, from the point of view of computer science, a phase transition has occurred in the scale of problems that can be solved by automated reasoning from formal models, leading to a revolution in a range of disciplines including planning and scheduling, verification, diagnosis, and hybrid systems. The goal of energy informatics is thus to apply informatics technologies to the energy domain, and to further develop and refine these techniques in order to model and reason about technical and economical aspects of sustainable energy production, efficient energy distribution, storage, and consumption.

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