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Computer and embedded reactive control systems which includes discrete switching logic and event-driven interactions with continuous systems are ubiquitous in everyday life. These systems become increasingly complex and difficult to design and to verify while the requirements for dynamics performances and safety are also increasing. The development of systematic methods for efficient and reliable design of hybrid systems is a key issue in control technology and industrial information, and thus it is currently of high interest to control engineers, computer scientists and mathematicians in research institutions as well as in many industrial sectors.

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