


## 情報電子工学科 学会発表

【発表者について】 アンダーラインは本学教員、研究員および技術職員、○は発表者、※は大学院生、卒研生または卒業生

学会名	The 11th International Conference on Agents and Artificial Intelligence (ICAART 2019), February 19-21, 2019. Prague, Czech Republic.
演題名	Towards locative inconsistency-tolerant hierarchical probabilistic CTL model checking: Survey and future work
発表者	<u>Norihiro Kamide</u> and Juan Pedro Altamirano Bernal
内容	A locative inconsistency-tolerant hierarchical probabilistic computation tree logic (LIHpCTL) is introduced in this paper to establish the logical foundation of a new model checking paradigm. This logic is an extension of several previously proposed extensions of the standard temporal logic known as CTL, which is widely used for model checking. The extended model checking paradigm proposed is intended to appropriately verify locative (spatial), inconsistent, hierarchical, probabilistic (randomized), and time-dependent concurrent systems. Additionally, a survey of various studies on probabilistic, inconsistency-tolerant, and hierarchical temporal logics and their applications in model checking is conducted.
関連画像	 A portrait photograph of Norihiro Kamide, a young man with dark hair, wearing a white button-down shirt, standing in front of a green chalkboard.