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Statistical relational artificial intelligence : logic ...

This explains why there has been a con-

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subdiscipline of artificial intelligence and machine learning that is concerned with domain models that exhibit both uncertainty (which can be dealt with using statistical methods) and complex, relational structure. Note that SRL is sometimes called Relational Machine Learning (RML) in the literature. Typically, the knowledge representation formalisms ...

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His main research interests are data mining, machine learning, and statistical relational artificial intelligence. He has published over 120 peer-reviewed papers and received the ECCAI Dissertation Award 2006, the ECML Best Student Paper Award in 2006, the ACM SIGSPATIAL GIS Best Poster Award in 2011, and the AAAI-2013 Outstanding PC Member Award.

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Statistical Relational Artificial Intelligence (StarAI) combines logical (or relational) AI and probabilistic (or statistical) AI. Relational AI deals very effectively with complex domains involving many and even a varying number of entities connected by complex relationships, while statistical AI manages well the uncertainty that derives from incomplete

and noisy descriptions of the domains.

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