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He is currently working on probabilistic logic learning (sometimes called statistical relational learning), which combines probabilistic reasoning methods with logical representations and machine learning, the integration of constraint programming with data mining and machine learning principles, the development of programming

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languages for machine learning, and  
analyzing graph and network data.

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...

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## **Statistical Relational Artificial Intelligence: Logic ...**

Published in. Statistical Relational....

2016. Computer Science. An intelligent agent interacting with the real world will encounter individual people, courses, test results, drugs prescriptions, chairs, boxes, etc., and needs to reason about

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properties of these individuals and relations among them as well as cope with uncertainty. Uncertainty has been studied in probability theory and graphical models, and relations have been studied in logic, in particular in the predicate calculus and its ...

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Statistical Relational Artificial Intelligence (StarAI) aims at integrating logical (or relational) AI with probabilistic (or statistical) AI ( De Raedt et al., 2016; Riguzzi, 2018 ). Relational AI achieved impressive results in structured machine learning and data mining, especially in bio- and chemo-informatics.

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## **Editorial: Statistical Relational Artificial Intelligence**

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

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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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He is currently working on probabilistic

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logic learning (sometimes called statistical relational learning), which combines probabilistic reasoning methods with logical representations and machine learning, the integration of constraint programming with data mining and machine learning principles, the development of programming languages for machine learning, and

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**Statistical Relational Artificial  
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Statistical relational learning (SRL) is a subdiscipline of artificial intelligence and machine learning that is concerned with domain models that exhibit both uncertainty (which can be dealt with



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using statistical methods) and complex, relational structure. Note that SRL is sometimes called Relational Machine Learning (RML) in the literature.

## **Statistical relational learning - Wikipedia**

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Computation. Synthesis Lectures on  
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Learning, Morgan & Claypool Publishers,  
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Computation by Kristian Kersting, Luc De Raedt and Sriraam Natarajan (2016, Trade Paperback) The lowest-priced brand-new, unused, unopened, undamaged item in its original packaging (where packaging is applicable).

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Luc De Raedt, Kristian Kersting, Srirraam Natarajan, David Poole, Statistical Relational Artificial Intelligence: Logic, Probability, and Computation. Morgan and Claypool Publishers, Synthesis Lectures on Artificial Intelligence and Machine Learning, ISBN: 9781627058414, 2016.

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Neuro-symbolic and statistical relational artificial intelligence both integrate frameworks for learning with logical reasoning. This survey identifies several parallels across seven different dimensions between these two fields.

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Statistical relational learning is a subdiscipline of artificial intelligence and machine learning that is concerned with domain models that exhibit both uncertainty and complex, relational structure. Note that SRL is sometimes called Relational Machine Learning in the



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literature. Typically, the knowledge representation formalisms developed in SRL use first-order logic to describe relational properties of a domain in a general manner and draw upon probabilistic graphical models to model the unce

## **Statistical relational learning -**

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This explains why there has been a considerable body of research in combining first-order logic and probability over the last 25 years, evolving into what has come to be called Statistical Relational Artificial Intelligence (StarAI). Relational probabilistic models — we use this term

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in the broad sense, meaning any models that combine relations and probabilities — form the basis of StarAI, and can be seen as combinations of probability and predicate calculus that allow for individuals ...

## **NIPS 2017 Schedule**

Statistical Relational Learning (SRL) is an

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emerging field and one that is taking  
centre stage in the Data Science age.

Big Data has been one of the primary  
reasons for the continued prominence of  
this relational learning approach given,  
the voluminous amount of data available  
now to learn interesting and unknown  
patterns from data.

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Programming Languages. Various  
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