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**Doctoral Consortium at ICLP'14**

**March 7, 2014**

To whom it may concern,

My name is Joachim Jansen, I am a PhD student in the Knowledge Representation and Reasoning (KRR) research group, a subgroup of the Declarative Languages and Artificial Intelligence (DTAI) group at the department of Computer Science at KU Leuven. I started my PhD in September 2012.

I am interested in participating in the Doctoral Consortium at ICLP'14 so that I can discuss my ideas with fellow researchers and come into contact with new ideas in the community. It will also provide me with an opportunity to further extend my research network.

My promotor is prof. dr. ir. Gerda Janssens and my co-promotor is prof. dr. Marc Denecker.

My research is related to extending the IDP system with a new type of inference called "Model Revision". IDP is a system closely related to Answer Set Programming systems. Model Revision is an inference that starts from a given solution accompanied by a change in this solution that would make it invalid and tries to compute a valid, new solution close to the old one that incorporates the change. In order to support this new kind of inference other features need to be provided. One of these features are the so-called "Approximating Definitions": a definition that represents the possible influences of (changing) data on other data.

Kindest regards,

**Joachim Jansen**