Relational Learning and Feature Extraction by **Querying** over **Heterogeneous Information Networks**

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Statistical Relational AI

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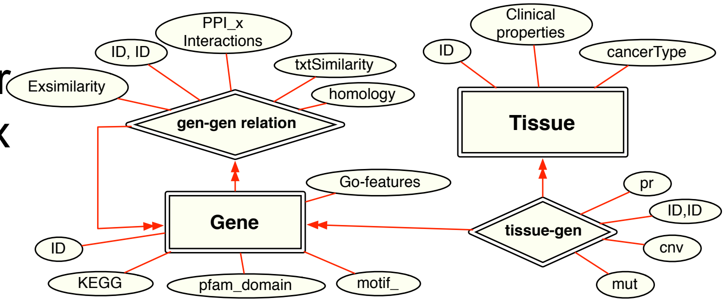

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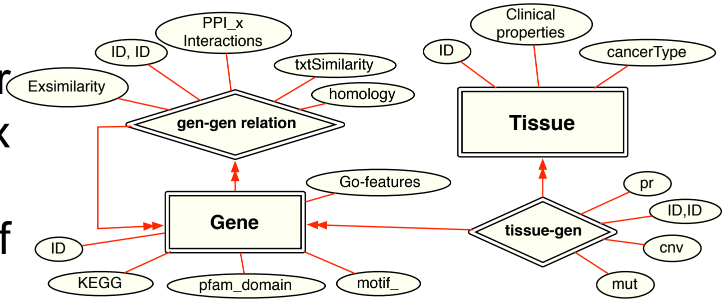
- **Existing research:** addresses many challenges of working with such networks for various mining tasks. Mostly specialized approaches perform specific types of analysis over a network design with **task specific implementations**.



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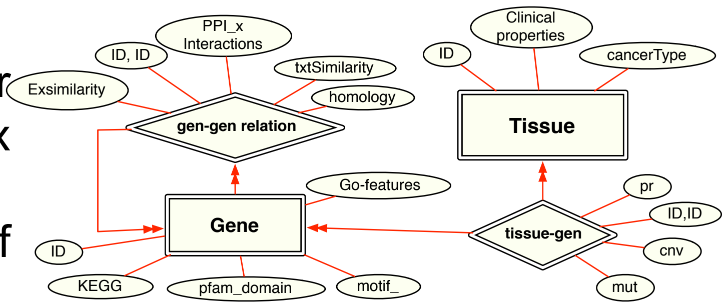

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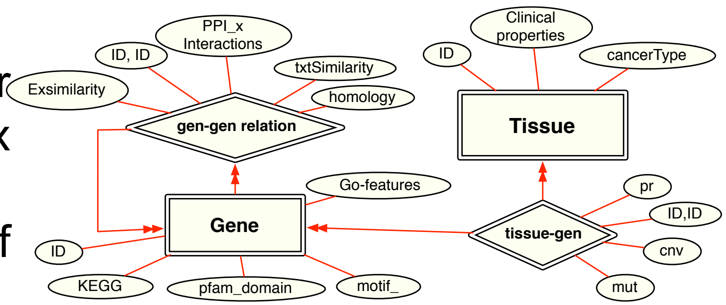

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- **Demand:** Relational data **representation**, **learning** and flexible intelligent data analysis, as well as the **evolution** of these networks based on the analysis outcomes, need to be placed in a well-defined framework.

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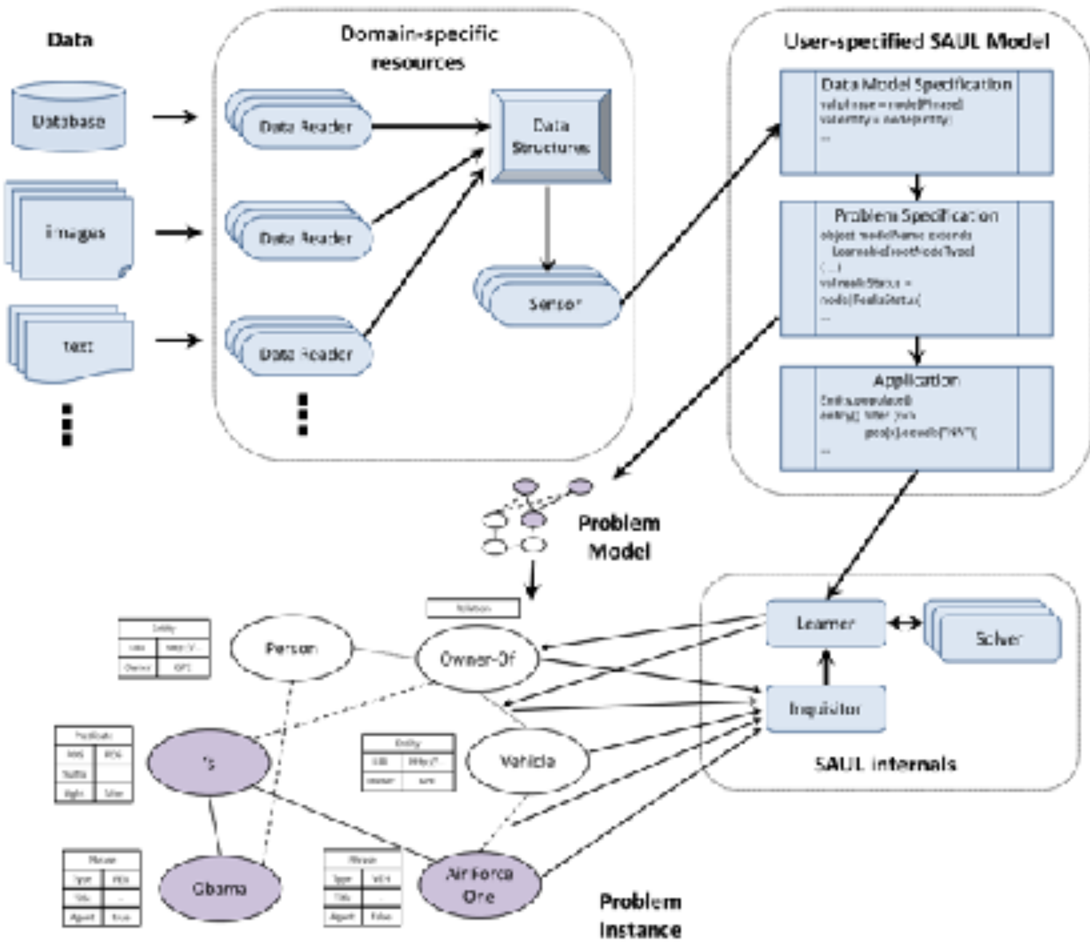
- Evolving the graph based on the outcomes of learning and inference
- Considering expert knowledge at a very high level with a logical representation.

Overview of the components



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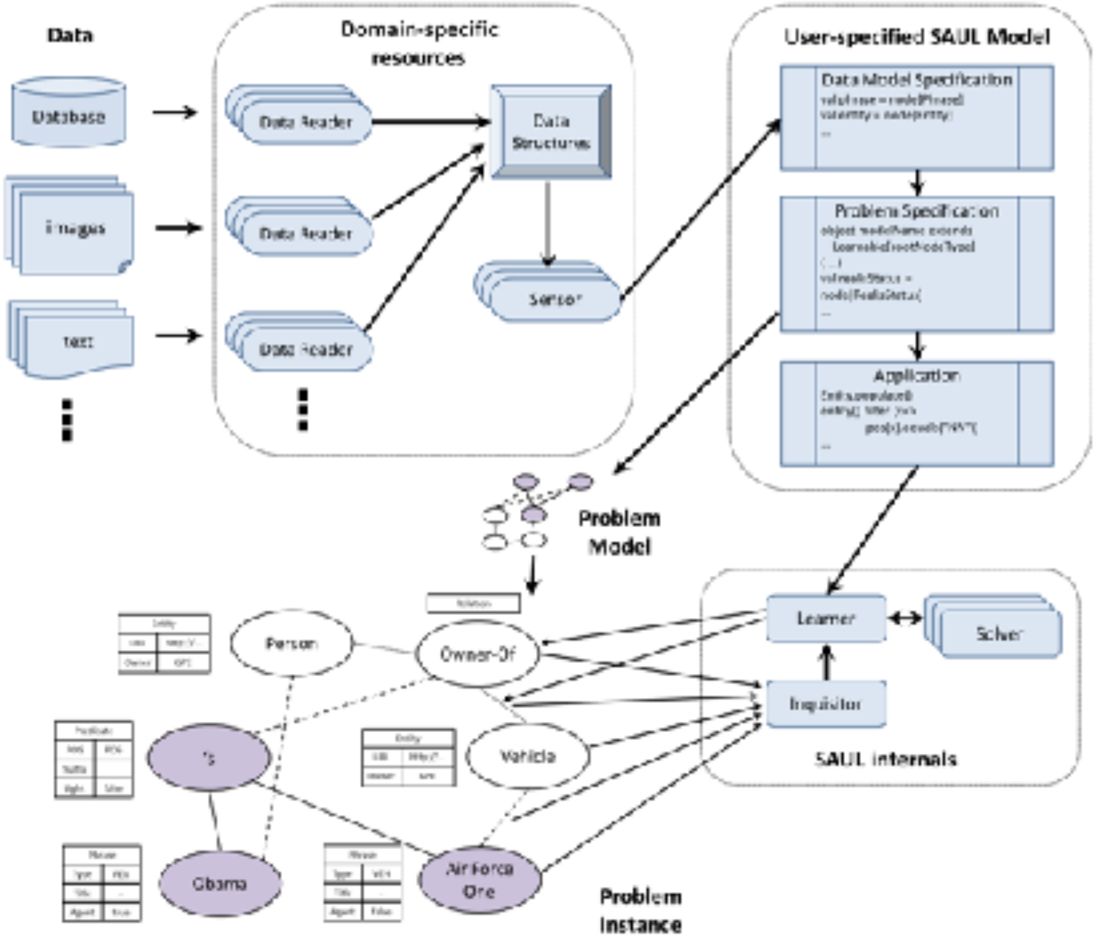

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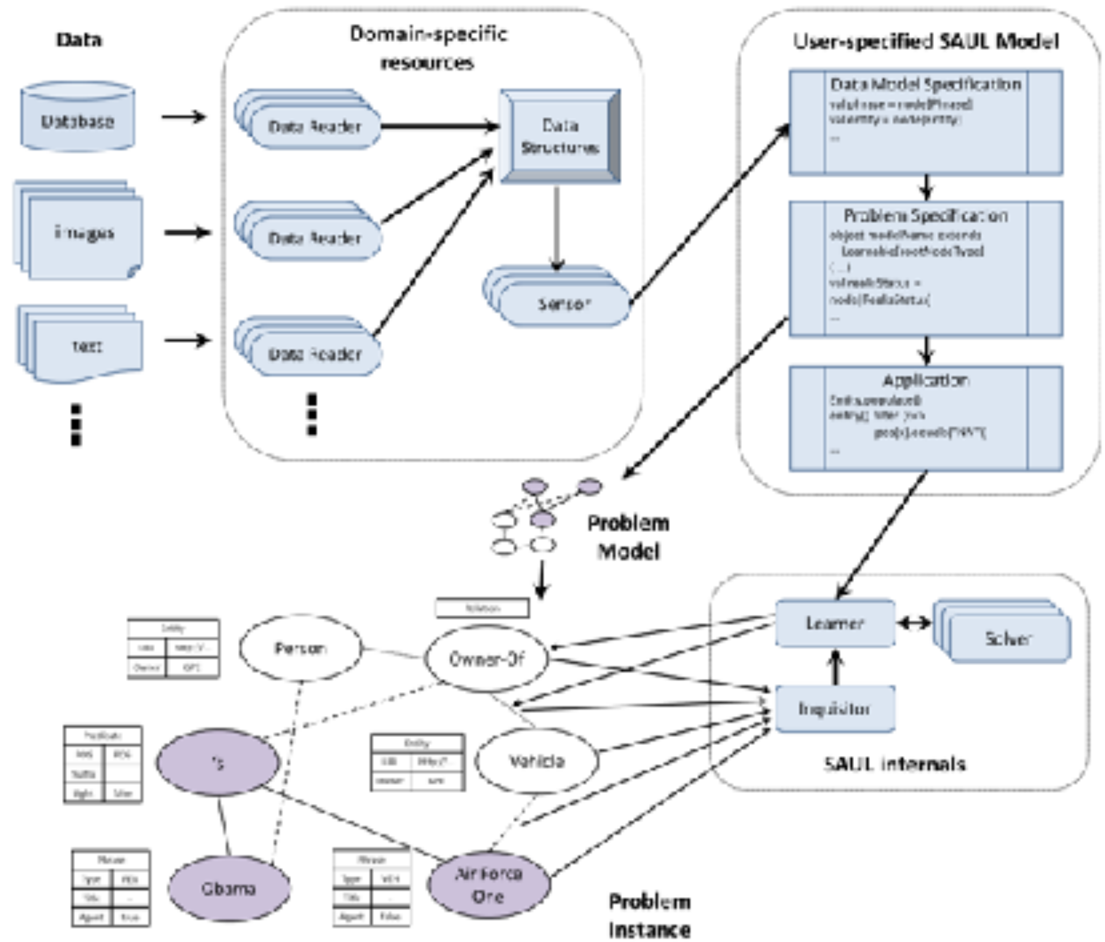

- Examples?

Come to the poster!