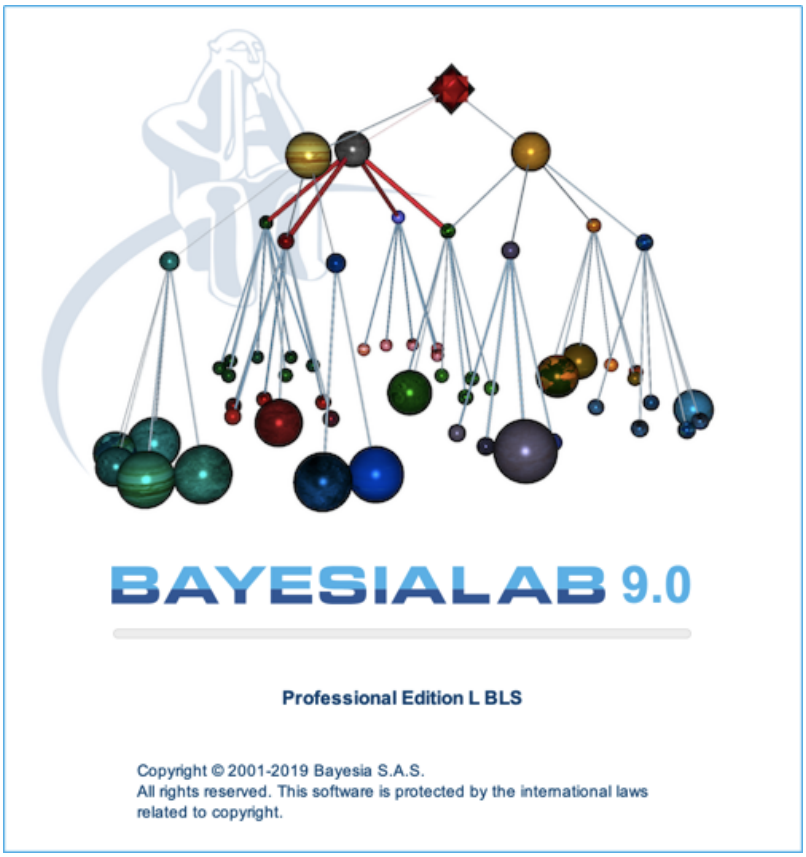
What's New



BayesiaLab 9.0: New Features & Updates (12/2019)

Here is a small selection of new or updated features released in BayesiaLab 9.0:

- The **Target and Function node optimization tools** are enhanced with new options and outputs.
- The new **Most Relevant Explanations** function provides precise and concise explanations for your current set of evidence.
- By setting **Structural Priors**, you incorporate any available, partial prior knowledge about a structure.
- You can improve the quality of machine-learned models with BayesiaLab's new Smoothed Bootstrapping algorithm, **Data Perturbation**. It perturbs the sample data not only with the weight of each particle but also with the overall Structural Coefficient.
- You can automatically estimate **Structural Priors** via Resampling/Bagging. This is particularly powerful for small data sets as you no longer have to search for the best Structural Coefficient.
- As a step toward learning causal Bayesian networks, you can induce a **Partial Order** among your variables via Resampling/Bagging.
- The **Markov Blanket Learning Algorithms** can now take into account constraints on arc directionality as defined by **Temporal Indices** or **Forbidden Arcs.**
- The cross-validation of **Variable Clustering** now features **Purities** to estimate to quality of the Factors.
- The **Code Export** function (optional), can now produce **Python** code. This code, when embedded into your own program, can compute the posterior probability of a Target node given its **Markov Blanket**.
- By separate subscription, a new **Media** tool gives you access to **presentation slides** and **recorded videos** of the **3-Day Introductory and Advanced BayesiaLab Courses**.
- In the **3D Mapping** tool, you can now apply textures to nodes and use auto-rotate for creating visually appealing animations of your Bayesian network models.

BayesiaLab 9.0 presented at the 7th BayesiaLab Conference

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