Bayesian Programming formalism and ProBT API

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ProBAYES

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We are offering:

A free version of ProBT® for academic and research purposes

Industry

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Products:

- ProBT®
- ProBT®-Excel
- Bayesian Occupancy Filter

Applications:

- Bank-Finance:
  - Operational Risk
  - Fraud Detection
  - Stock picking
- Industry:
  - Automotive Industry
  - Preventive Maintenance
- Services:
  - Logistic
  - Cost and price evaluation
  - Intelligent Marketing
  - Energy
- Defense and Security

We are looking for:

Collaborations and inference or learning algorithms to implement in ProBT

Robotics:

- Bayesian Robot Programming [2]
- The CyCab: Bayesian Navigation on Sensory-Motor Trajectories [8]
- The Bayesian Occupancy Filter [4]
- Tological SLAM
- Bayesian Maps: Probabilistic an Hierarchical Models for Mobile Robots Navigation
- Bayesian Approach to Action Selection and Attention Focusing
- Bayesian Control of a Robotic Arm

Industrial applications:

- 3D Human Hip Volume Reconstruction with Incomplete Multimodal Medical Images: Application to Computer-Assisted surgery
- Playing Train Video Game Avatar [6]

Cognitive Modeling:

- Bayesian Modeling of Visuo-Vestibular Interactions [7]
- Bayesian Modeling of Perception of Structure from Motion [4]
- Building a Talking Baby Robot: Study of Early Speech Acquisition [9]
- Bayesian Model of the Superior Colliculus [10]

Research

www.bayesian-programming.org

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References: