



## Probabilistic Reasoning and Decision Making in Sensory-Motor Systems [

Bessiere, Pierre

Springer Berlin Heidelberg,  
2008

Monografía

Probabilistic Reasoning and Decision Making in Sensory-Motor Systems by Pierre Bessiere, Christian Laugier and Roland Siegwart provides a unique collection of a sizable segment of the cognitive systems research community in Europe. It reports on contributions from leading academic institutions brought together within the European projects Bayesian Inspired Brain and Artifact (BIBA) and Bayesian Approach to Cognitive Systems (BACS). This fourteen-chapter volume covers important research along two main lines: new probabilistic models and algorithms for perception and action, new probabilistic methodology and techniques for artefact conception and development. The work addresses key issues concerned with Bayesian programming, navigation, filtering, modelling and mapping, with applications in a number of different contexts

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMTI2MzkzMjA>

**Título:** Probabilistic Reasoning and Decision Making in Sensory-Motor Systems Recurso electrónico-En línea] edited by Pierre Bessière, Christian Laugier, Roland Siegwart

**Editorial:** Berlin, Heidelberg Springer Berlin Heidelberg 2008

**Descripción física:** XX, 378 P., 152 illus., Also available in online. digital

**Tipo Audiovisual:** Engineering Artificial intelligence Systems theory Engineering Automation and Robotics Artificial Intelligence (incl. Robotics) Control Engineering Systems Theory, Control

**Mención de serie:** Springer Tracts in Advanced Robotics 1610-7438 46

**Documento fuente:** Springer eBooks

**Nota general:** Engineering (Springer-11647)

**Contenido:** Part I Introduction -- Probability as an alternative to logic for rational sensory\2013 motor reasoning and decision -- Basic Concepts of Bayesian Programming -- Part II Robotics -- The CyCab: Bayesian navigation on sensory\2013motor Trajectories -- The Bayesian occupation filter -- Topological SLAM -- Probabilistic contextual situation analysis -- Bayesian Maps: probabilistic and hierarchical models for mobile robot navigation -- Bayesian approach to action selection and attention focusing -- Part III Industrial applications -- BCAD: a Bayesian CAD system for geometric problems specification and resolution -- 3D human hip volume reconstruction with incomplete multimodal medical images -- Playing to train your video game avatar -- Part IV Cognitive Modelling --

Bayesian modelling of visuo-vestibular interactions -- Bayesian modelling of perception of structure from motion --  
Building a Talking Baby Robot: A contribution to the study of speech acquisition and evolution

**Restricciones de acceso:** Accesible sólo para usuarios de la UPV

**Tipo recurso electrónico:** Recurso a texto completo

**Detalles del sistema:** Forma de acceso: Web

**ISBN:** 9783540790075 978-3-540-79007-5

**Autores:** Laugier, Christian Siegart, Roland

**Entidades:** SpringerLink (Servicio en línea)

**Enlace a formato físico adicional:** Printed edition 9783540790068

**Punto acceso adicional serie-Título:** Springer Tracts in Advanced Robotics 1610-7438 46

---

### **Baratz Innovación Documental**

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es