

Librería
Bonilla y Asociados
desde 1950



Título: Behavior-Based Robotics

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Precio: \$1040.00

Editorial:

Año: 1998

Tema:

Edición: 1^a

Sinopsis

ISBN: 9780262011655

This introduction to the principles, design, and practice of intelligent behavior-based autonomous robotic systems is the first true survey of this robotics field. The author presents the tools and techniques central to the development of this class of systems in a clear and thorough manner. Following a discussion of the relevant biological and psychological models of behavior, he covers the use of knowledge and learning in autonomous robots, behavior-based and hybrid robot architectures, modular perception, robot colonies, and future trends in robot intelligence.

The text throughout refers to actual implemented robots and includes many pictures and descriptions of hardware, making it clear that these are not abstract simulations, but real machines capable of perception, cognition, and action.