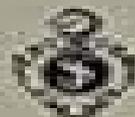


SYMBOLIC

COMPUTATION

Yun Peng  
James A. Reggia

**Abductive  
Inference Models  
for Diagnostic  
Problem-Solving**



Springer-Verlag

# Abductive Inference Models For Diagnostic Problem Solving Symbolic Computation Ser

**Yun Peng, James A. Reggia**



## **Abductive Inference Models For Diagnostic Problem Solving Symbolic Computation Ser:**

**Abductive Inference Models for Diagnostic Problem-Solving** Yun Peng, James A. Reggia, 2012-12-06 Making a diagnosis when something goes wrong with a natural or man-made system can be difficult. In many fields such as medicine or electronics a long training period and apprenticeship are required to become a skilled diagnostician. During this time a novice diagnostician is asked to assimilate a large amount of knowledge about the class of systems to be diagnosed. In contrast the novice is not really taught how to reason with this knowledge in arriving at a conclusion or a diagnosis except perhaps implicitly through case examples. This would seem to indicate that many of the essential aspects of diagnostic reasoning are a type of intuition-based common sense reasoning. More precisely diagnostic reasoning can be classified as a type of inference known as abductive reasoning or abduction. Abduction is defined to be a process of generating a plausible explanation for a given set of observations or facts. Although mentioned in Aristotle's work the study of formal aspects of abduction did not really start until about a century ago. Subject Guide to Books in Print, 2001 *Subject Guide to Children's Books in Print 1997* Bowker Editorial Staff, R R Bowker Publishing, 1996-09 **Books in Print**, 1994 **Books in Print Supplement**, 1994

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