ALEXANDRE PAPADOPOULOS MAKING INTELLIGENT SYSTEMS EXPLAIN THEMSELVES

AI AND EXPLANATIONS

"No computer has ever been designed that is ever aware of what it's doing; but most of the time, we aren't either." Marvin Minsky, Cognitive Scientist (Co-founder of AI)

> "The ability to explain observed behaviour is a hallmark of human rationality."

> > Gilbert Harman, American Philosopher

"Explaining one's reasoning is a hallmark of intelligence."

GIVE EXPLANATIONS TO USERS



- Best explanation
- Many explanations
- Deeper explanations



- HOW WE COMPUTE THEM?
 - It's very hard
 - Compute lot of stuff,
 - And store it

WHY ARE THEY IMPORTANT?

- Help user's understanding and acceptance
- Knowledge-based Configuration
 - Telecommunications
 - Product configuration

THESIS

SYSTEMS BIOLOGY IRELAND

THESIS IN 3: THE ELEVATOR PITCH FOR A PHD







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