

Entrepreneurial IT in the Age of Smart Machines

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Don't Bury Your Head in the Sand!

- Some say: “AI is dead.” (Or: “AI is dying.”)
- This is due to either self-deception or what Turing — the grandfather of computer science and AI — called the “head in the sand” reaction to the prospect of smart machines

The Decade Past Says It All, No?

- Deep Blue
- Robbins Problem solved by a machine
- Gödel's theorems proved by a machine
- :
- and AI has “mainstreamed”
 - artificial agents on the Web (e.g., JANGO)
 - handwriting recognition (from Richmond Square to PDAs)
 - computer gaming and AI
 - :

Indeed, Predictions:

- Hans Moravec claims in *Robot* that by 2040 humans, **all** humans, will be unemployed
- cognoscenti who resist such “optimism” resist only because they think the date should be later ... see *Discover* magazine
- IT entrepreneurs take note:
 - Negroponte is doubtless correct that 100,000 people would pay \$100,000 for a household robot, but
 - robotics has a very high barrier to entry

NASA Agrees; Hollywood Agrees

- see NASA's DS1 and plans for future HAL-like immobots
- Have you seen **The Matrix**? It's right out of Moravec's book
- Are we machines? — we are drawn irresistably to tackle this question

And Yet...

- What about creativity? Can computing machines be genuinely creative?
- Well, artificial agents at Amazon.com will sell you Bringsjord's just-published *AI and Literary Creativity* — and make smart recommendations about what else you should buy

What About Us, Here? What About AI & Education?

- Distance Education may well mark the dawn of automated education
- Do we really need 2,500 teachers of **Logic 101**?
 - CSLI’s “Grade Grinder”
- If education is as large a market as (e.g.) Milken says it is, entrepreneurs will be jumping in with smart machines
- And the opportunities in high-stakes testing are enormous
 - do you know about the GMAT essay grader?