Confidantes

Monica Anderson
CTO, Sensai Corporation
Sens.AI

AI Based Personal Assistants

Movie "Her"

The Confidante

- A step beyond current smartphones
- All-day interaction with a computer based artificially intelligent assistant
- Voice input and output – vision optional
- Computers without keyboards
- Internet access – talk to other Confidantes
- You tell it everything – "in confidence"
- It maintains your privacy barrier

Today: Translation

That was translation, Not a real Confidante; they don't exist... yet
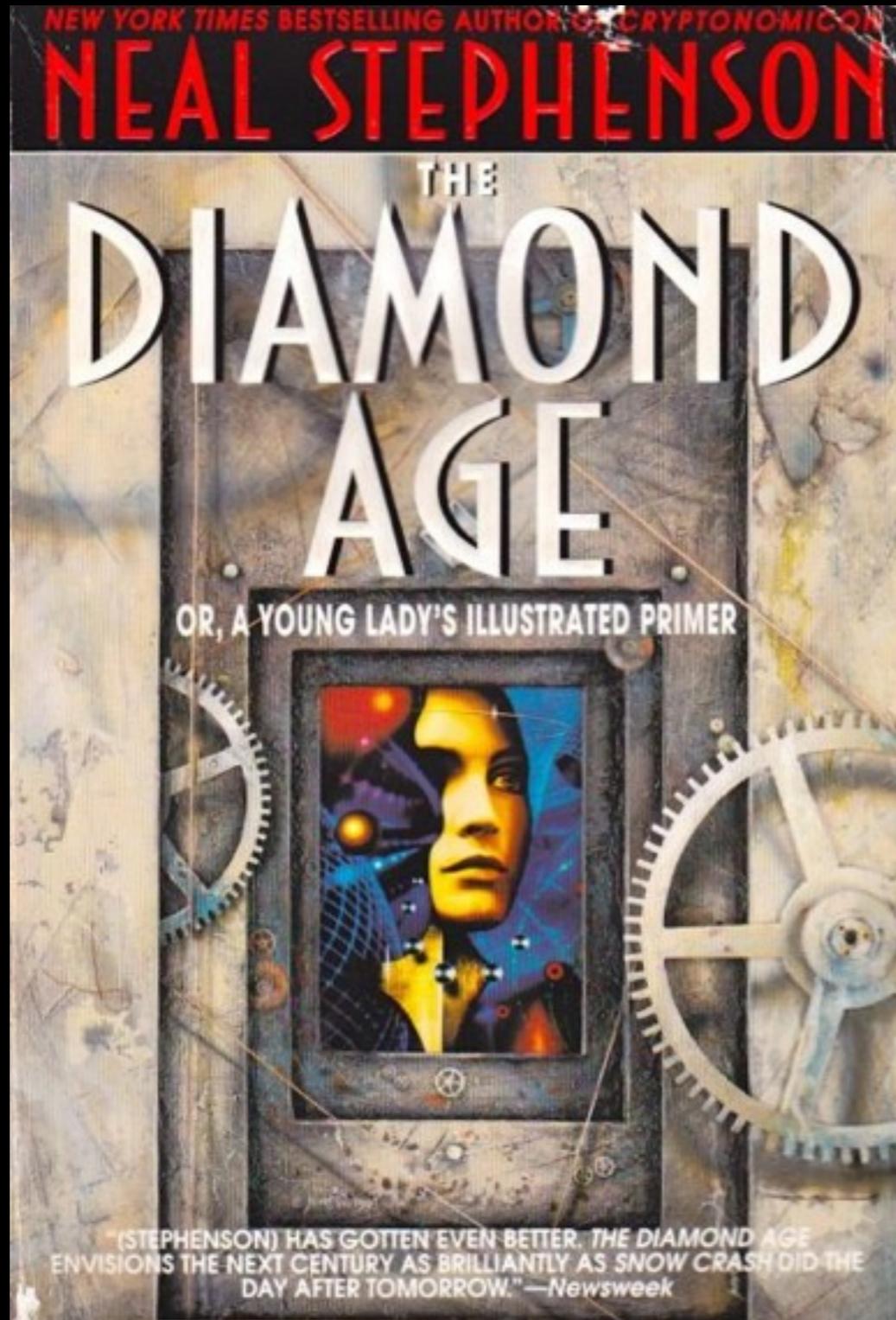
Increase Your Mind's Reach

- ❖ Ask it anything.
  - ❖ It knows the answer
  - ❖ It can research it on the web
  - ❖ It can ask other Confidantes
  - ❖ They ask their humans

Input Filters

- Your Confidante tracks many news sources
    - They share and discuss public information
- Personalized saliency estimate
    - Knows what matters to you
    - Filters the irrelevant and tells you what you need to know... without you asking
    - Tracks your friends and family
- Your one-stop news source

Changing Education

❖ A Young Lady's Illustrated Primer

❖ Provide Confidantes to young children

❖ Personalized education at a personalized rate

❖ For your entire life

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Changing the Nature of Work

* Guaranteed Basic Income

  * ... supplemented with Confidante mediated activities

* Consulting in your domains of expertise

  * ... mostly as Confidante conversations

* Uber style work-on-demand

  * Perform small tasks requiring simple skills

* Aggregate opinions, wishes, wants, and needs

Improved Communication

* Replaces most phone calls, emails, meetings, text messages, calendars and schedules, social media, news channels, and emergency alerts

* Better and faster information exchange

* No advertising – Confidante knows products

* Fact checking – detects lies, misinformation

* You can be as bubbled as you want to be

Beyond the Basics

❖ Multiple personas

❖ Enforced diversity

❖ Symmetrical matching

❖ Symmetrical termination

❖ Employment requirement

❖ Reporting requirements (suicide, crime)

❖ Enhanced transparency (for politicians)

Speech Understanding Today

Deep Learning Breakthrough

Progress of spontaneous speech recognition

Word Error Rate

Error rates – lower is better

little progress for 10+ yrs

Not Traditional AI

- **Understanding Machines** based on Deep Learning / Neural Networks

- Understand what matters

- Understand language

- Understand the world

- Understand our lives

- Understand your wants and needs

Thank You

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Watch video "Dual Process Theory"