

From (Artificial) Intelligence to (Artificial) Emotions

Naomi Sussmann
University of Haifa

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Changing the subject?

Does (not?) the move from artificial
intelligence to artificial emotions change

The Subject?

- A. from human to machine?
- B. from emotion to behavior?

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Computer science divides into two:

- Computer-centered: focused on
the machine
- Human-centered: focused on
utility to humans

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emotions and computing: a new crossroads?

- Potential for scientific and technological
innovation is huge

while

- Contribution to humans is still largely
obscure

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What is missing?

Clear conceptual framework:

A Theory of Emotion

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The Question:

- What is emotion?
- Is emotion *subjective* or *objective*?

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No theory? New theory?

- Proceeding with no grounded theory means proceeding on no-grounds
- No-grounds turn into new-grounds

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Is new/no-theory changing the subject?

- The subject of emotion
From human to machine
- The subject of research
From emotion to behavior

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BUT

- Do we *want* to change the subject?
Do we think such change:
Necessary? Well-grounded? Justified?

OR

Is it imposed on us by the wish to apply
emotions to computers *NOW!*

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Some Ethical Concerns

- *Ethos* distinguished from *Mores*:

Ethos:

The character, dispositions, and values
distinctive of a person, people, or culture

Hence, *ethos* must precede *mores*

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Computer recognition and response to emotions

- Assuming that computers are *not* subjects, computer recognition and response to the emotions of others must be the limit.
(i.e., leaving out possession and experience of emotions)
- Once computers are [made!] subjects, the very nature of the problem will alter.

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Possible applications


Rosalind W. Picard, *Affective Computing*,
(MIT: 1997)

- Systems that know your preferences
- Systems that recognize, and respond to your mental state
- Affective mirrors
- Classroom barometers
- Sensitive toys

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Computer recognition and response to... *what?*

- Emotion? Mood? Feeling?
- Emotion? Mood? Feeling? *Behavior?*

Recognition?  Response!

- Not being itself emotionally capable, a system *must* respond upon recognition!

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Conclusion

- Can emotions die?
- Losses and gains: can we help it?
determining and balancing our losses
- *Brave* new world?

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