

Affect and Emotion - Scientific, technological and philosophical perspectives

Aim

The course provides an introductory, interdisciplinary overview of the multitude of existing theories and models of affective and emotional mechanisms in the cognitive sciences.

Course content

Perspectives addressed include the neurobiology of emotion, the relation between emotion and cognition, the role of emotion in social interaction, emotion in animals, and the possible roles of emotion in robots and in human-computer interaction.

Organisation and Schedule

The first meeting will take place Thursday, May 27. The second meeting June 21. The third and final meeting will take place Wednesday, August 25.

All meetings are 10am to 5pm, but the people not coming from Skövde should contact the course leader if there are any constraints on train times, etc (the university is literally 5 min walking distance from the train station). All course meetings/lectures will be held in room P501 (also called "Utsikten") of the Portalen building (entrance 3A, top floor, the building is labeled "8" on the campus maps at <http://www.his.se/english/university/campus-map/> and <http://www.his.se/PageFiles/338/Campuskarta%2009.pdf>

Examination

Prerequisites

Master or Ph D student.

Teachers

Tom Ziemke, India Morrison, Rob Lowe

Literature

Arbib M, Fellous J-M. Emotions: From brain to robot. Trends in Cognitive Sciences 2004;8(12):554–61.

Breazeal C. Emotion and sociable humanoid robots. International Journal of Human Computer Interaction 2003;59:119–55.

Craig AD. Interoception: The sense of the physiological condition of the body. *Current Opinion in Neurobiology*. 2003;13(4):500–5.

Damasio AR. *The feeling of what happens: Body, emotion and the making of consciousness*. London: Vintage; 1999.

Damasio AR. *Looking for Spinoza: Joy, sorrow and the feeling brain*. Orlando, FL: Harcourt; 2003.

Fellous J-M, Arbib M, editors. *Who needs emotions? The brain meets the robot*. New York: Oxford University Press; 2005.

Gros, Claudius (in press). *Cognition and Emotion: Perspectives of a Closing Gap*. *Cognitive Computation*, to appear. [available from <http://www.springerlink.com/content/fw3n35th20351526/>]

Panksepp J. *Affective consciousness: Core emotional feelings in animals and humans*. *Consciousness and Cognition*. 2005;14:30–80.

Pessoa L. (2008). On the relationship between emotion and cognition. *Nature Reviews Neuroscience*, 9(2):148-58. [available from http://www.indiana.edu/~lceiub/publications_files/Pessoa_NRN_2008.pdf]

Phelps, E.A. (2006). Emotion and cognition: Insights from studies of the human amygdala. *Annual Review of Psychology*, 24 (57):27-53. [available from <http://www.psych.nyu.edu/phelpslab/pages/pubs.htm>]

Prinz, J. (2004). *Gut reactions*. Oxford University Press. Chapter 1. [available from http://books.google.se/books?id=27GGrWd7aGMC&printsec=frontcover&dq=Prinz+%22Gut+reactions%22&source=bl&ots=f-eYx8OvDo&sig=iGiCaZQgbKJUA9ALZHqVJ-feqM&hl=sv&ei=Du7sS6PkEYqgOM2ajYcI&sa=X&oi=book_result&ct=result&resnum=2&ved=0CBsQ6AEwAQ#v=onepage&q&f=false]

Trapp R, Petta P, Payr S, editors. *Emotions in humans and artifacts*. Cambridge, MA: MIT Press; 2003.

Ziemke, Tom & Lowe, Robert (2009). On the role of emotion in embodied cognitive architectures: From organisms to robots. *Cognitive Computation*, 1(1), 104-117. [available from <http://www.springerlink.com/content/x30436v0871313p6/> - feel free to leave out the section "Toward ..." which is more specifically about our own work]

Other information