

**Sciences cognitives
& applications**

Elena Pasquinelli



Perception multimodale
& IHM

Museum of pure form

Etudes sur les capacités et les illusions haptiques

Robles-de-la-Torre, G., Hayward, V. (2001), Force can overcome object geometry in the perception of shape activity through active touch, *Nature*, vol. 412, 26 July, 445- 448

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Vogels L. M. L. C., Kappers A. M. L., Koenderink J. J. (2001), Haptic after-effect of successively touched curved surfaces, *Acta Psychologica*, 106, 247-263

Etudes sur les illusions intermodales et l'intégration multimodale

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Heller, M. A., Calcaterra, J. A., Green, S. L., Brown, L (1999), Intersensory conflict between vision and touch: the response modality dominates when precise, attention-riveting judgements are required, *Perception & psychophysics*, 61 (7): 1384-1398.

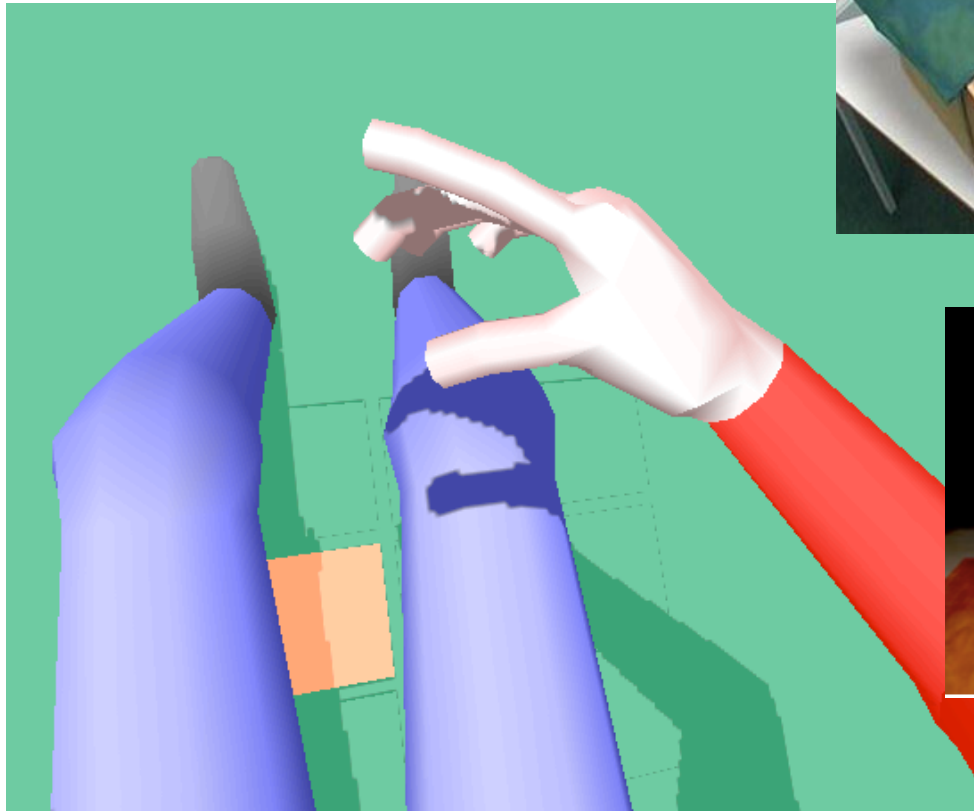
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Illusions intersensorielles
& rééducation

Virtual reality as a rehabilitative
technology for phantom limb
experience

Etudes sur les illusions de mouvement ou position induites par la vision

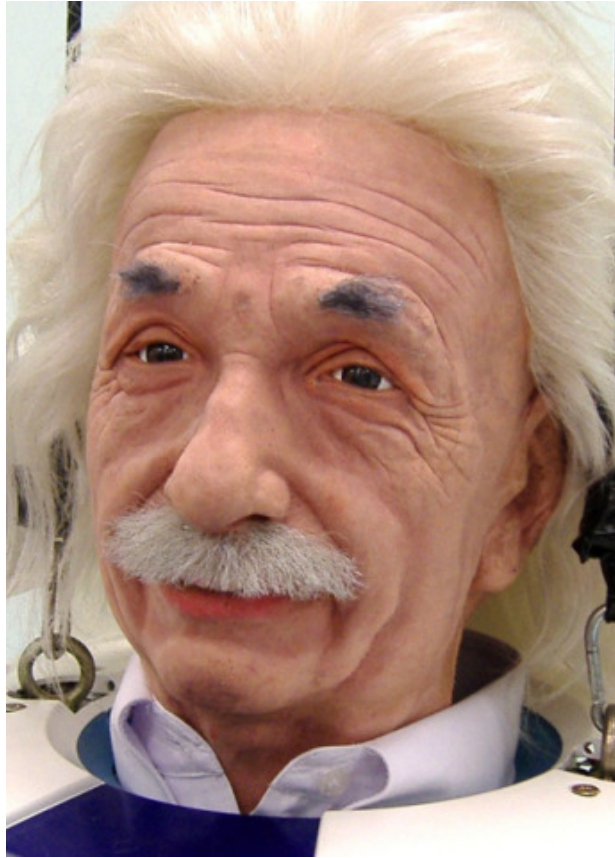
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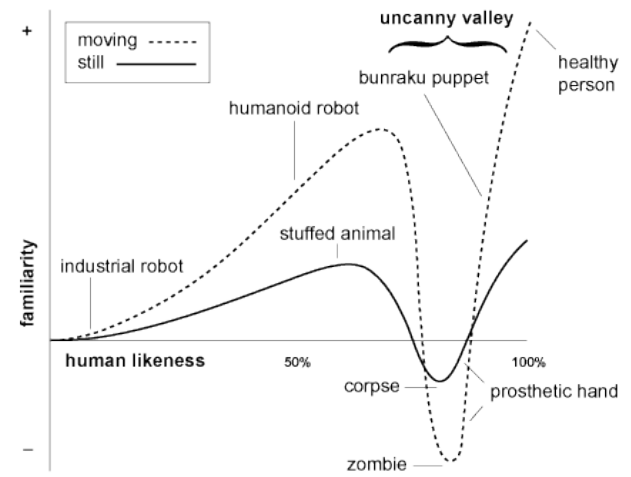
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Perception de la figure humaine & agents artificiels



Uncanny valley

Études sur
la
perception
de la figure
humaine &
de
l'expression
des
émotions

Mori M. (1970), *The Uncanny Valley*, *Energy*, 7, pp. 33-35.

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Change blindness & the
London cyclists

Do the test

études sur
change &
inattention
blindness et sur
l'accès des
contenus
perceptifs à la
conscience

Rensink, R., O'Regan, K., Clark, J. (1997), To see or not to see: the need for attention to perceive changes in scenes, *Psychological Science*, 8(5): 368–373

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Perception & éducation

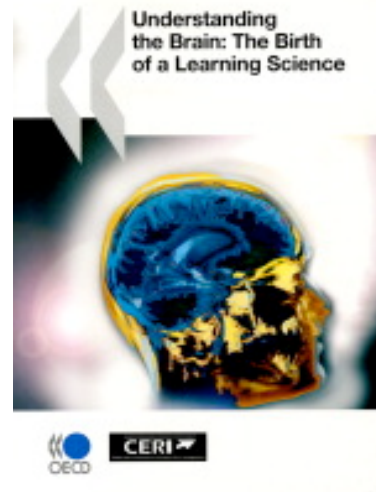
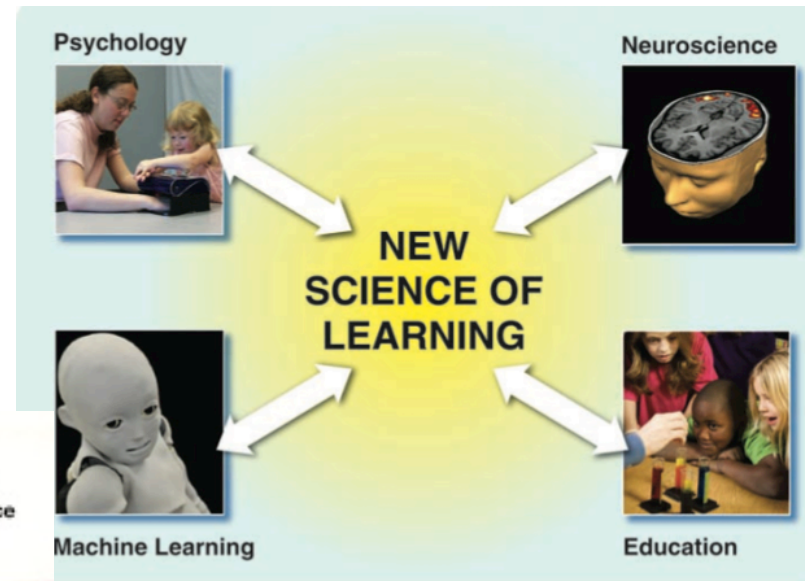
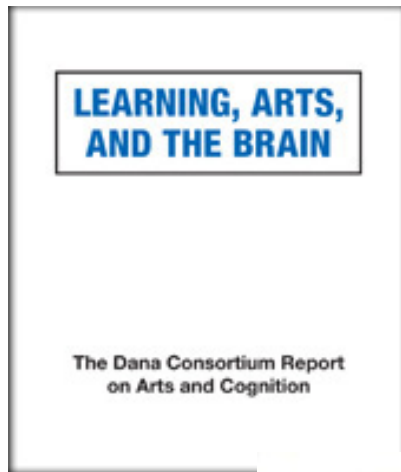
Centre de recherche sur le
développement neuro-cognitif et
les apprentissages

Etudes sur la perception et son rôle dans l'apprentissage

Gentaz, E. (2008). Pourquoi et comment la méthode expérimentale peut nous aider à évaluer des effets des entraînements cognitifs visuo-haptiques sur des apprentissages ? Évaluation des effets de l'ajout l'exploration visuo-haptique sur l'apprentissage de la géométrie et de l'écriture. *Hermès, 2*, 241-25

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Cognition & éducation

Dana Foundation Report: Does art make you smart?

For a new science of learning

OECD. Brain and learning program

Études en
psychologie,
neurosciences,
modélisation,
éducation

Gazzaniga, M. (2008). Learning, arts and the brain. The Dana consortium report on arts and cognition:

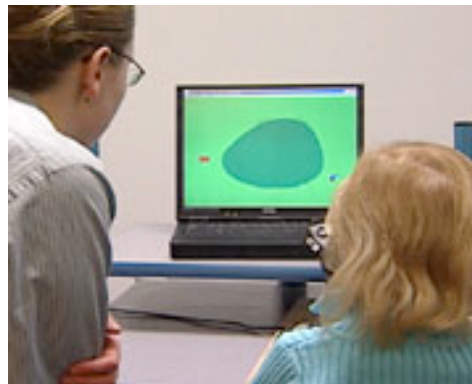
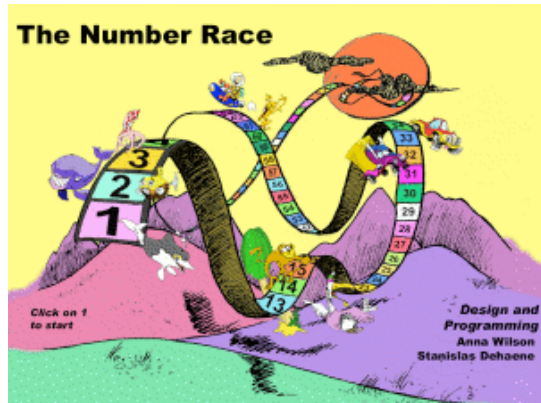
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Spelke, E. Effects of Music Instruction on Developing Cognitive Systems at the Foundations of Math and Science

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Cognition & outils pour l'éducation

The number race
Attention training Program
Education Arcade
The consolarium - Dr Kawashima

**Etudes sur
cognition
numérique,
attention,
apprentissages
implicites/
explicites...

et tests!**

Wilson, A. J., Dehaene, S., Pinel, P., Revkin, S. K., Cohen, L., & Cohen, D. (2006). Principles underlying the design of “the number race”, an adaptive computer game for remediation of dyscalculia. *Behavioral and Brain Functions*, 2(19).

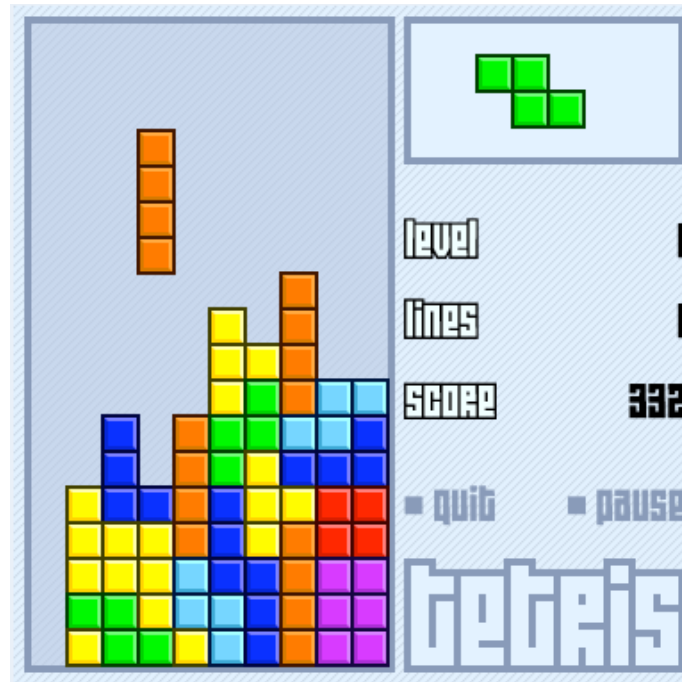
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Seger, C. A. (1994). Implicit learning. *Psychological Bulletin*, 115, 163-196.

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Applications & sciences
cognitives

David Kirsh & P. Maglio (1995). On Distinguishing Epistemic From Pragmatic Action. *Cognitive Science*



Merci