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Corso di Dottorato in Storia, Filosofia e Didattica delle Scienze

Machine consciousness: theoretical and empirical issues

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Sommario

L'obiettivo di questo tutorial è chiedersi se sia possibile, almeno teoricamente, costruire un artefatto cosciente. È possibile che un artefatto *provi* delle sensazioni? Quali sono le sfide teoriche e gli ostacoli tecnici? Che vantaggi avrebbe una macchina cosciente rispetto? Che suggerimenti arrivano dalle neuroscienze e dagli approcci bio-inspirati? Che relazione esiste tra cognizione e conscienza? Il tutorial cercherà di presentare le maggiori sfide metodologiche, scientifiche e tecnologiche poste dalla coscienza negli agenti artificiali e negli organismi biologici: informazione integrata, Global Work Space, embodied cognition e la mente estesa (Baars, 1997; Koch, 2008; Manzotti & Tagliasco, 2005; Manzotti, 2012; Shanahan, 2010; Tononi, 2008).

Durante il tutorial si affronteranno questi interrogativi: perché siamo coscienti? Che vantaggi ne traiamo? Quali sono le basi fisiche dell'esperienza cosciente? Quali sono i principali ostacoli metodologici per trattare di coscienza all'interno delle scienze forte e da un punto di vista ingegneristico? La coscienza è la manifestazione di un particolare stile cognitivo o di una particolare modalità di elaborazione dell'informazione? Che legame esiste tra coscienza e autonomia decisionale (libero arbitrio)? Che legame esiste tra coscienza e ambiente? Che cosa trasforma un pattern in un pattern cosciente? Che differenza c'è tra il riconoscimento e la percezione?

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