

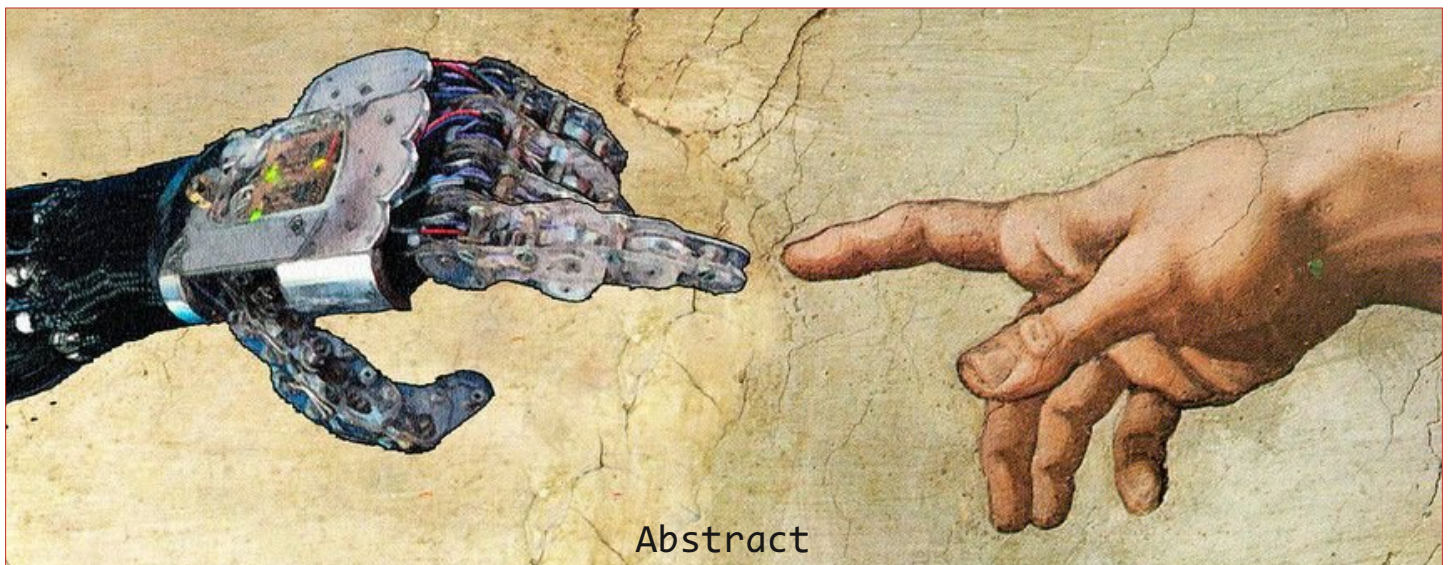
7 febbraio 2020 ore 15

Dipartimento di Matematica - aula Vitali

*A rationale on  
artificial intelligence  
in shallow networks*

**Prof. Adriano Barra**

Università del Salento



In this talk I will paint a self-consistent scenario for information processing in shallow neural networks: I will present a minimal reference framework where what is learnt (e.g. via contrastive divergence on restricted Boltzmann machines) is then retrieved (e.g. via standard Hebbian mechanisms à la Hopfield). Then I will generalize this scheme by discussing three variations on theme: the tradeoff between dilution and multitasking capabilities, the tradeoff between storage and resolution and the mechanism of "sleeping and dreaming".