



INSTITUT PARIS DESCARTES  
NEUROSCIENCES  
COGNITION



## Neuroscience Seminar Series

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**Friday, November 4<sup>th</sup>, 2016 at 11:30 am**

Salle des Conférences (R229)  
Centre Universitaire des Saints-Pères  
45 rue des Saints-Pères, 75006 Paris

### **Stephen Scott**

*GSK-CIHR Chair in Neurosciences, Professor  
Centre for Neuroscience Studies, Queen's University, Canada*

## ***Putting sensory back into voluntary control***

*Optimal feedback control can explain many features of biological movement, such as success with variability, motor synergies and goal-directed behavior. The lecture will describe the use of optimal control to interpret motor performance, highlighting the importance of sensory feedback in this process. My talk will highlight how simple mechanical disturbances applied to the limb can uncover a range of sophisticated feedback processes, including knowledge of limb mechanics, scaling to spatial target location, avoidance of obstacles and selection of alternate goals. As well, I will highlight how sensory and motor cortices participate in this online control.*

Those interested in meeting with the speaker please contact  
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