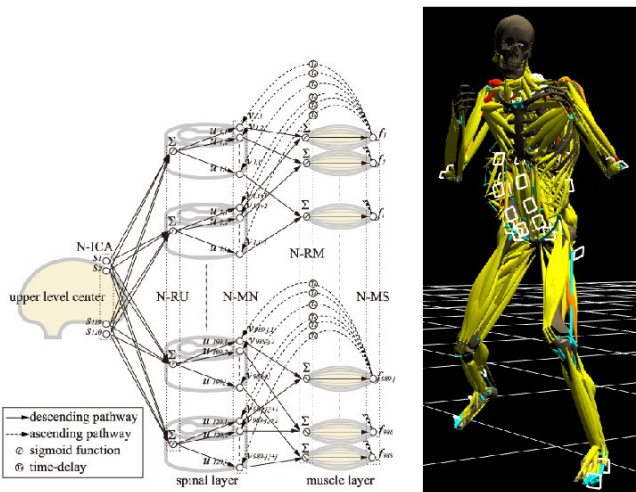


Modeling, Understanding, and Interacting with Humans

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Machines and robots extend their frequency and quality of interaction with humans. Tools invented by humans have shown evolution in the history. One may find a similar genealogical tree of tools to the evolution of life. Machines that interact with humans based on understanding humans are in a sense the ultimate tools for humans. The advance of computational algorithms and modeling technology in robotics encourages us making a challenge pursuing such machines. My talk will highlight and introduce our recent research results on emulating somatosensory sensation of humans, semiotics of human whole-body motion patterns, and using them for machines interacting with humans.