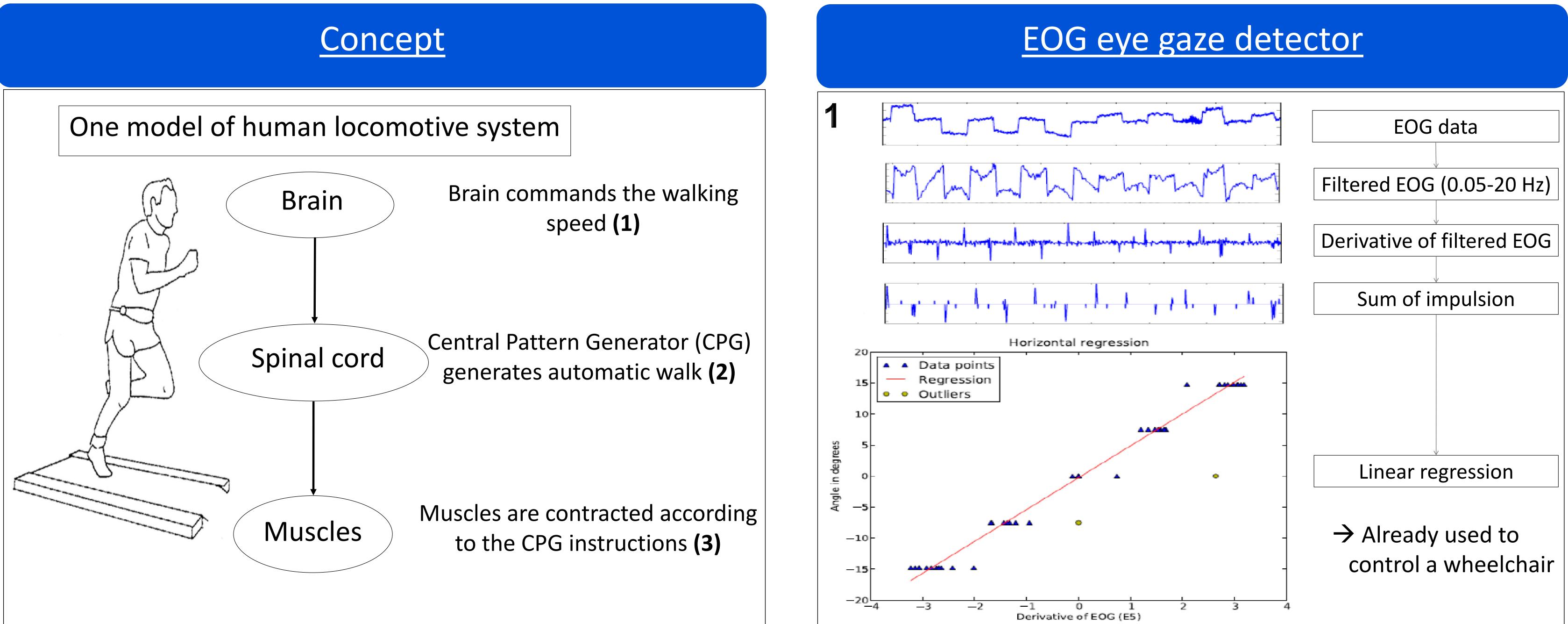


• The TCTS lab is developing a biologically inspired Brain/Neuronal Computer Interface (BNCI) for an original lower limb prosthesis by means of electro-encephalographic (EEG) and electro-myographic (EOG)

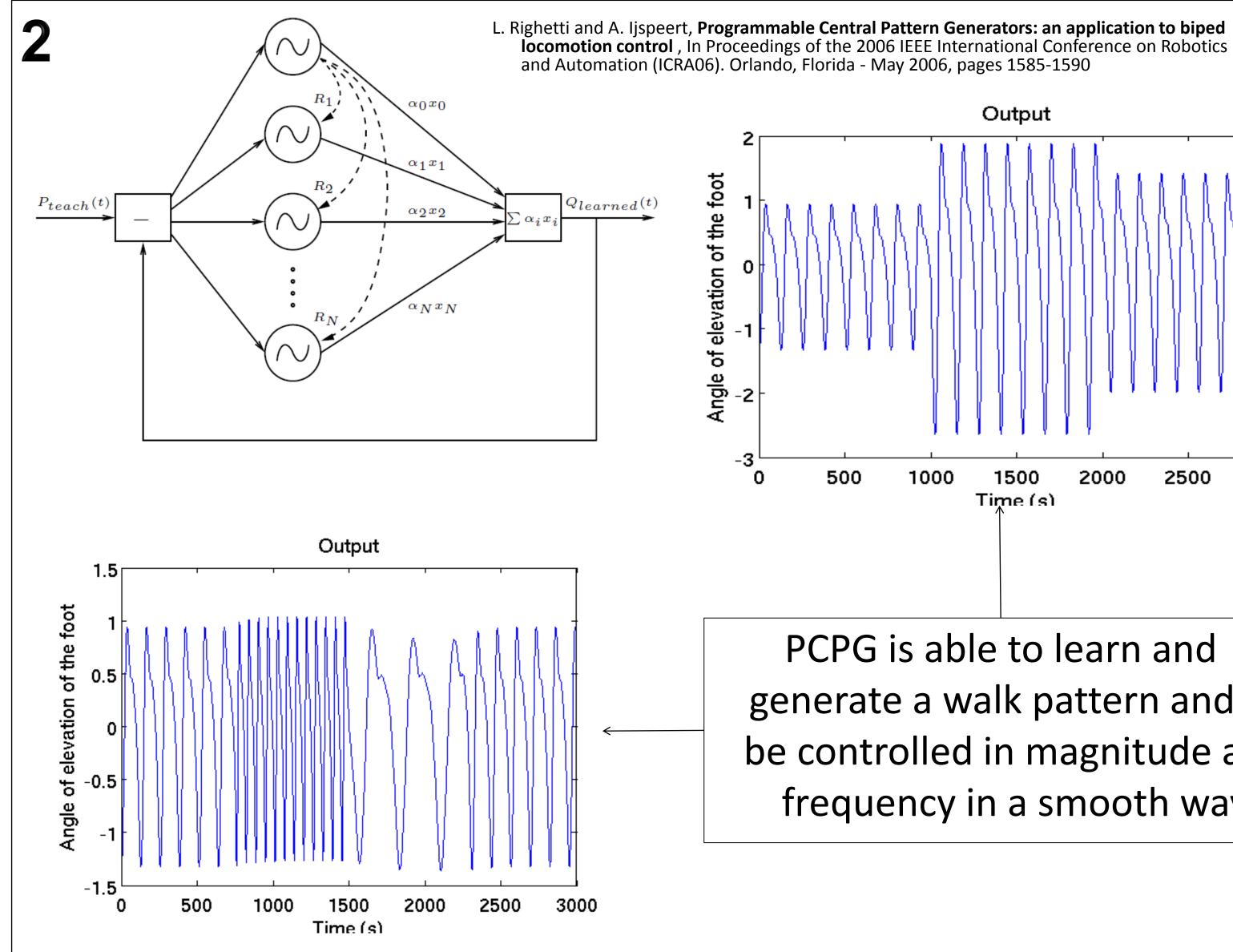
signals

• The aim is to provide disabled patients with a real-time non-invasive active prosthesis taking into account their intentions (go faster, slower, stop, ...)

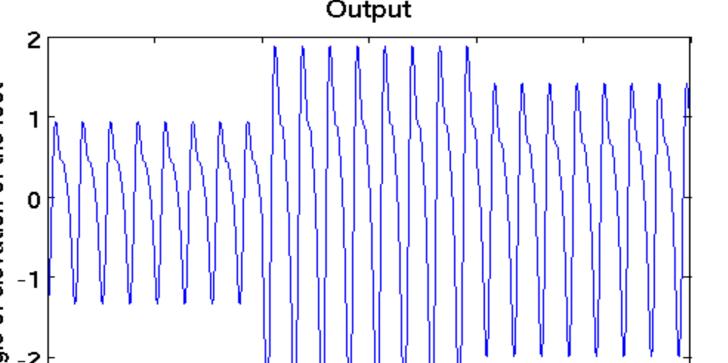


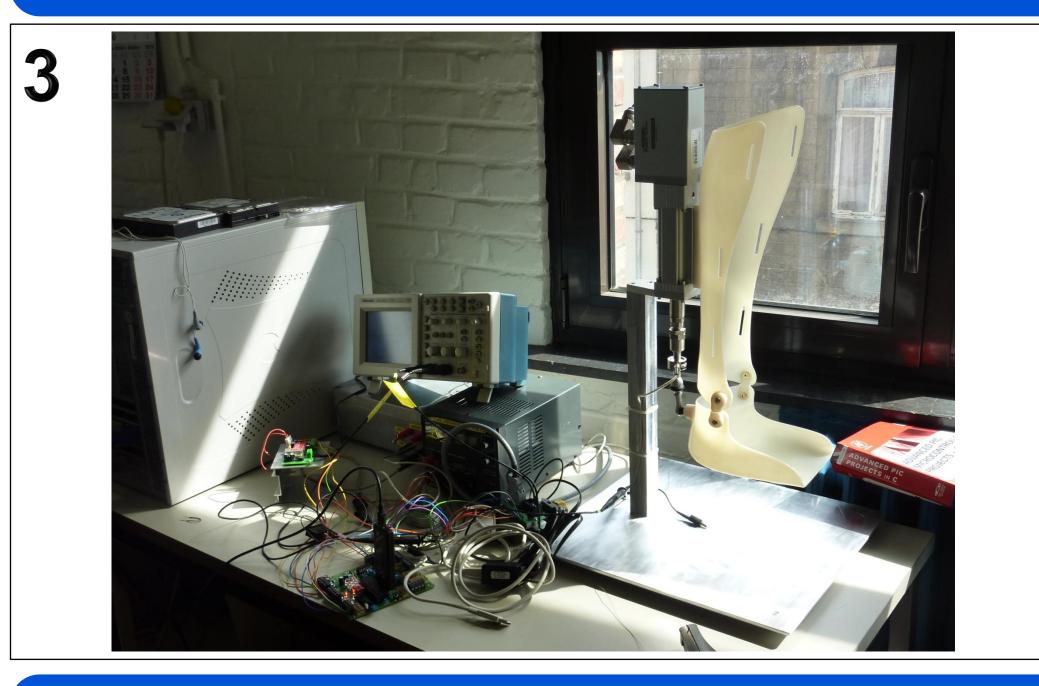
Foot elevator orthosis

Programmable Central Pattern Generator (PCPG)

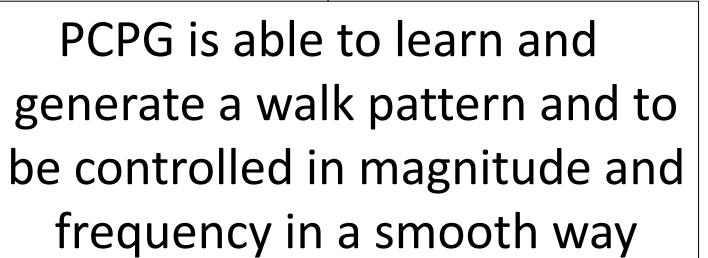


and Automation (ICRA06). Orlando, Florida - May 2006, pages 1585-1590 Output









Acknowledgments

We would like to thank the team of the LNMB department, Université Libre de Bruxelles and its director Prof. Dr. Cheron for the provided support and data We would like also to thank the MRDV department from the University of Mons for the picture of the orthosis (René Jimenez, Kevin Nis) We want to express our gratitude to SIRRIS for the orthosis machining



Université de Mons

Matthieu Duvinage, Thierry Castermans | TCTS Lab

Matthieu.Duvinage@umons.ac.be, Thierry.Castermans@umons.ac.be

2500

3000