

Energy Harvesting in Prosthetic Legs Using Piezoelectric Materials

Dr. Kesorn Pechrach Weaver

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UK**



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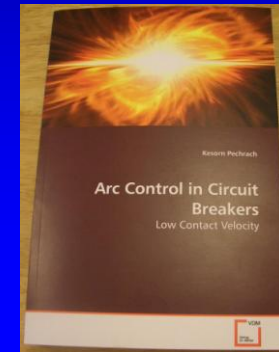
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Presentation Overview

- **Background**
- **Research Collaboration**
- **Artificial Nerve Network**
- **Piezoelectric Energy Harvesting**



Background



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Research Collaboration



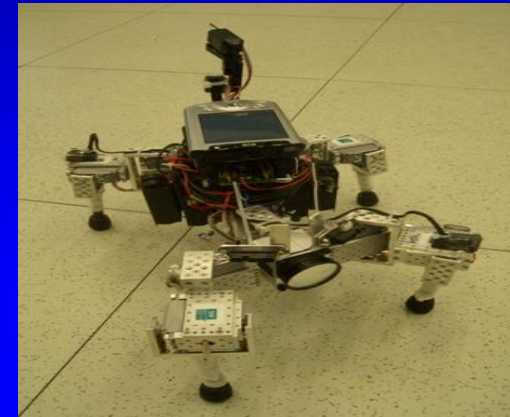
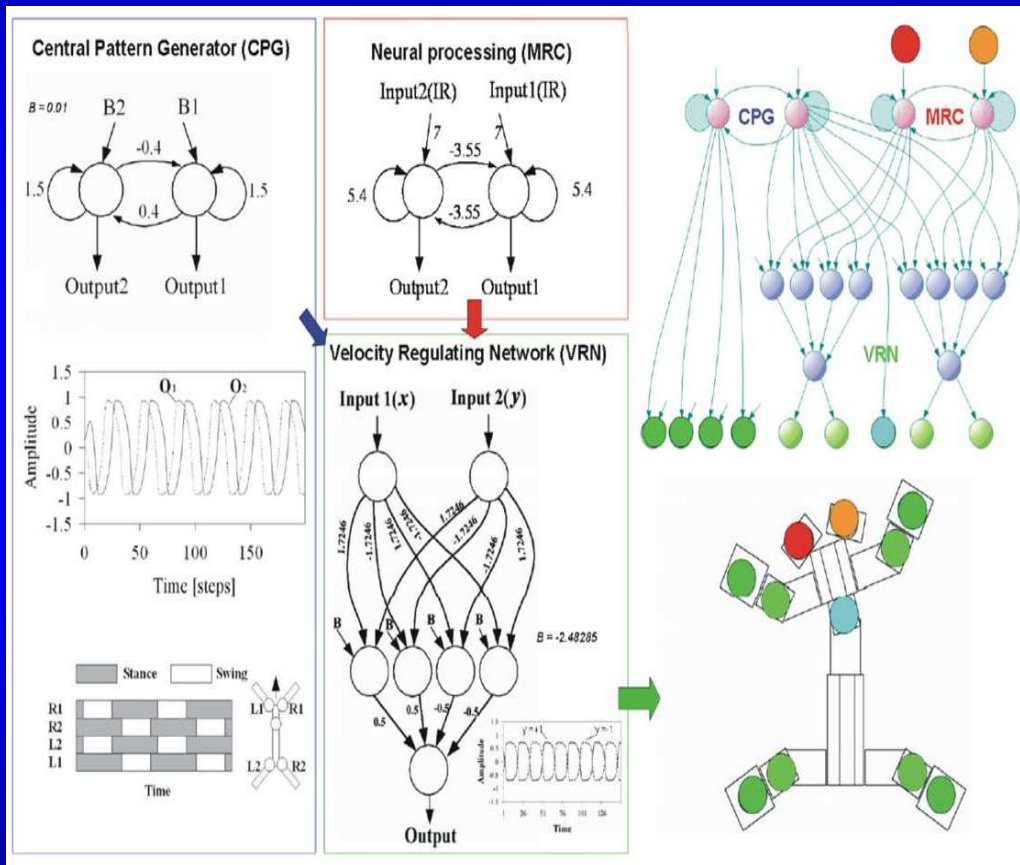
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Bernstein Center for Computational Neuroscience (BCCN), Germany



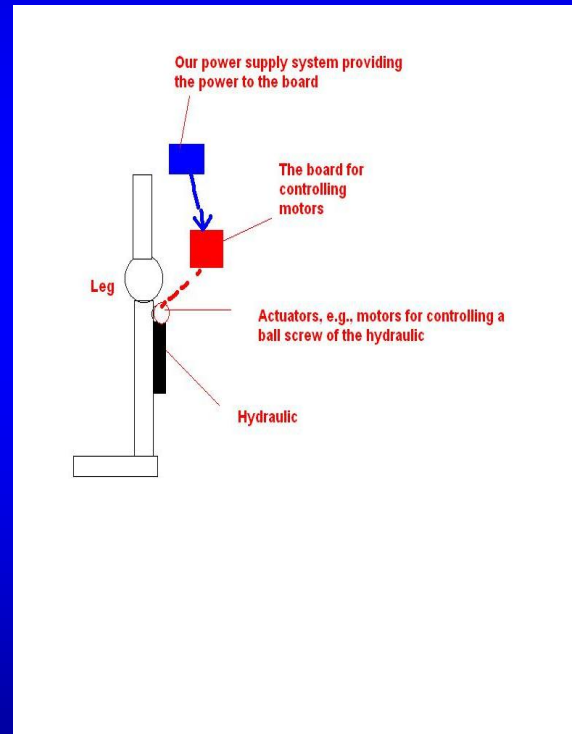
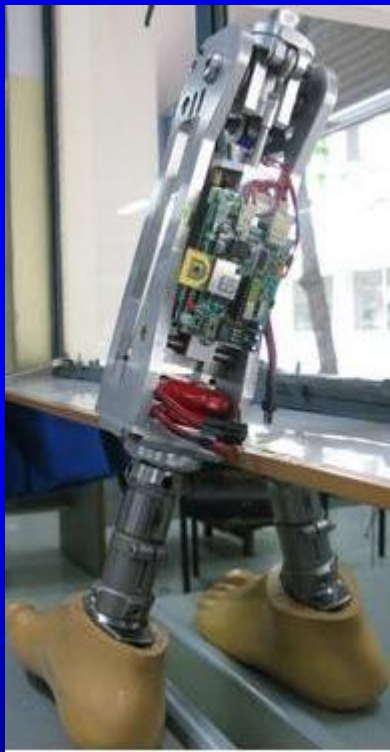
Modular Neural Control



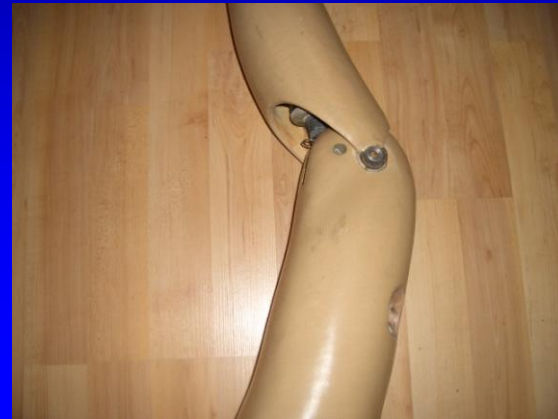
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Methodology



Prosthetic Legs



Energy harvesting is 1 - 2 Joules (0.278 Watt –hour) per step



Thank you



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