    Repport Powered Ankle-Foot Prosthesis

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1. Introduction :

This article has name of “powered ankle-foot prothesthesis”.

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First, the authors explain us that the existents models of ankle foot prosthesis, and they expose us the need analysis and the necessity for un active foot ankle prosthesis because the existents models are with low efficiency. After that; they expose the idea to fabricate a powered ankle foot prosthesis with the presents actuators, and the obstacle of the dimension  to make a foot ankle which looks like human ankle, and the first prosthesis models builded. Then the biomemtic design goals for the foot ankle are presented, including prosthesis mass, torque, speed, bandwidth, stifness and net work. Next; the authors discuss the importance of series  and parrallel motor elasticity in prosthesis shok tolerance, joint bandwidth and energy economy. Finally they conclude with the physical implementation of the design including priminary clinilical data and the capacity of the systeme to improve  amputee steps.

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2-Some definitions:

3-Context and Positioning:

4-Results

5-Contributions

**Conclusion**

References