عنوان فارسی مقاله:
مفهوم زانوی پروتزی با نیروی الهام گرفته از سیستم اسکلتی عضلانی

عنوان انگلیسی مقاله:
A powered prosthetic knee joint inspired from musculoskeletal system
4. Conclusion

In this paper, we presented a novel biomimetic prosthetic knee joint powered by pneumatic artificial muscles. These muscles look and behave mechanically similar to biological muscles and can deliver the required torque to the prosthetic knee. Test results showed that the powered knee can produce a to a degree gait characteristics that are similar to normal gait. The findings of this study show that pneumatic artificial muscles are worthwhile candidates to consider further investigation to produce new generations of prosthetic limbs that emulate the biological ones in both appearance and functionality.