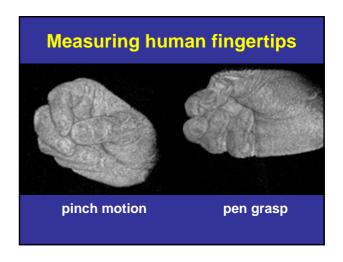


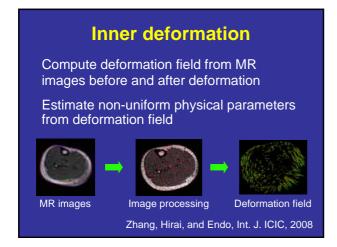
Discussion

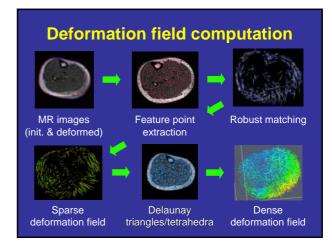
- Parallel distributed model with tangential deformation meets observations
- Experimental model verification force magnitude depends on object orientation
- Dynamics of manipulation process simulation and experiment validate parallel model

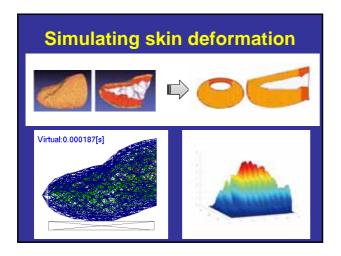
See for details Mechanics and Control of Soft-fingered Manipulation Takahiro Inoue and Shinichi Hirai Springer-Verlag 978-1-84800-980-6 Manipulation

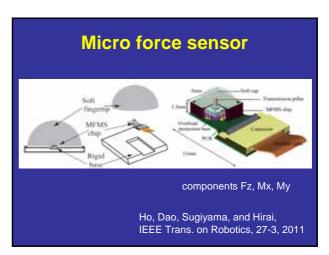


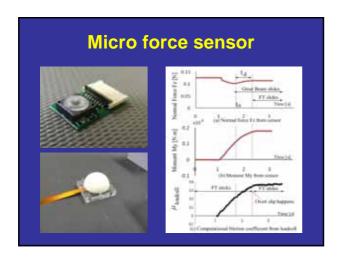


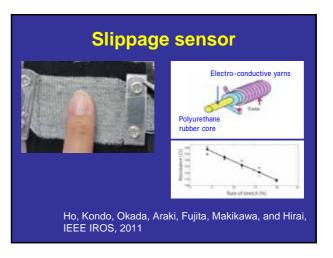


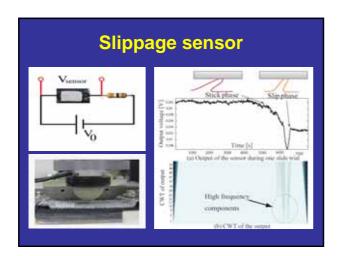


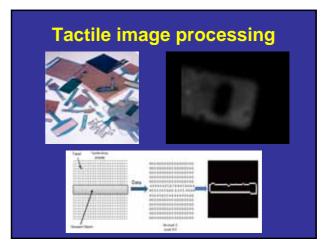




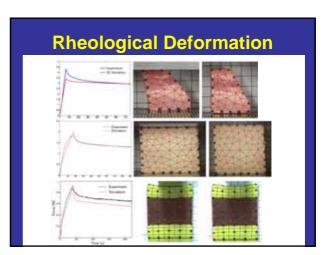


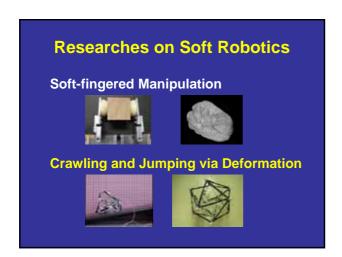


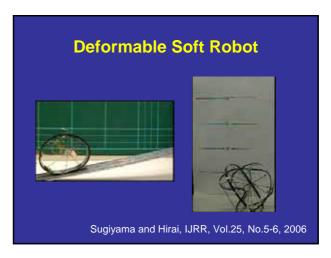


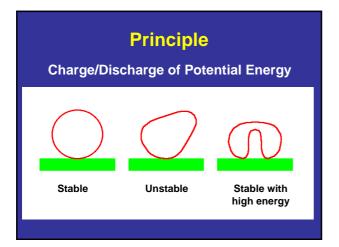




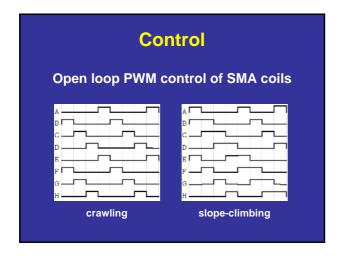


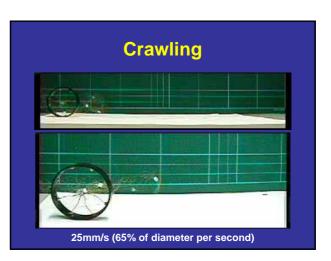


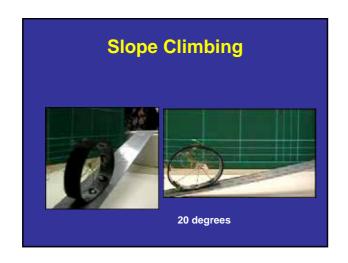


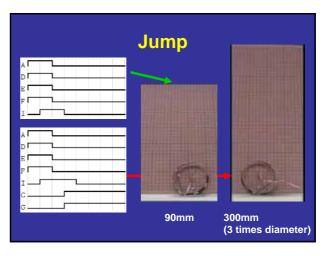


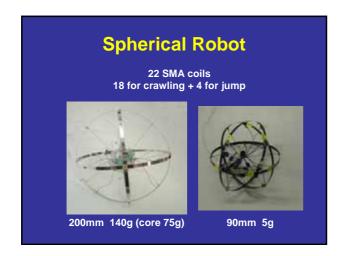


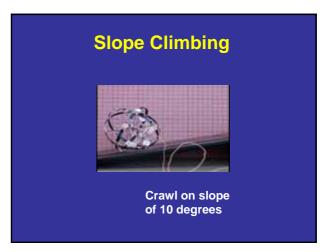


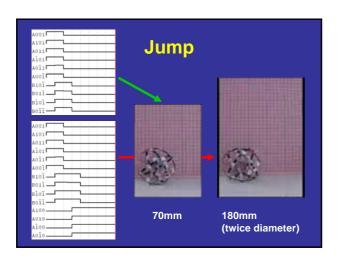


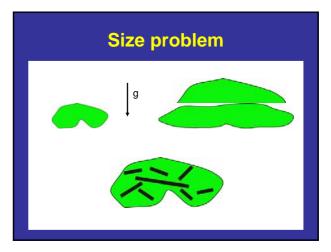


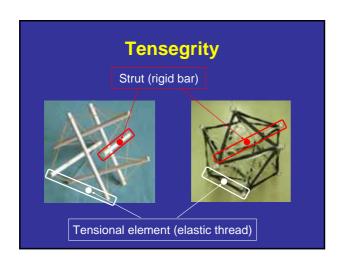


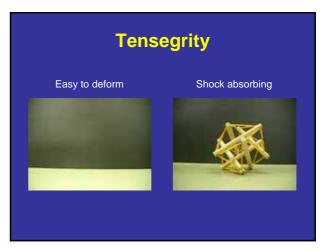


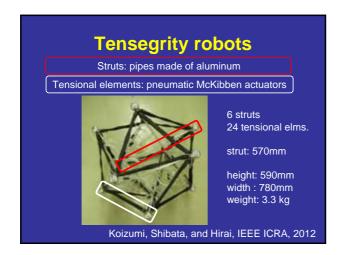




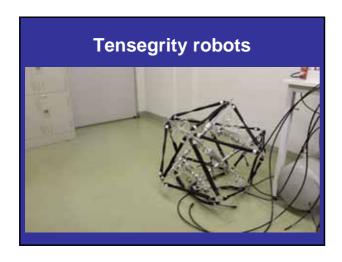


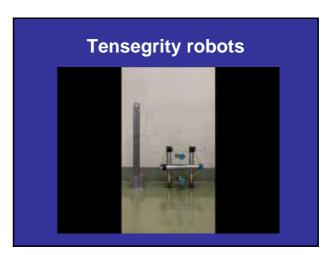


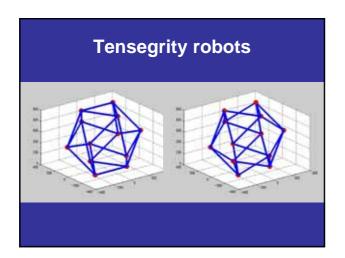


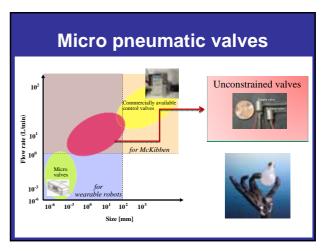


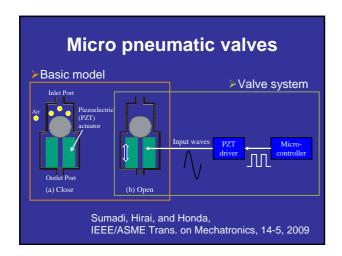


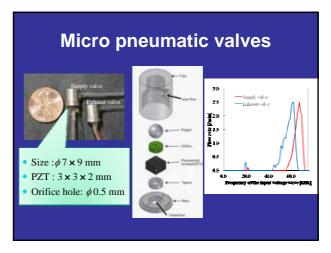


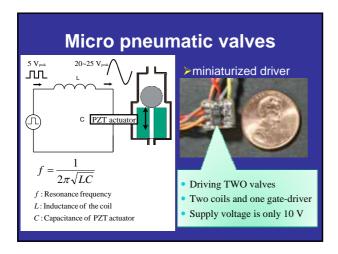


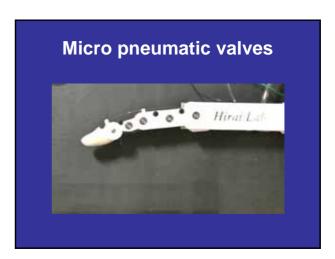










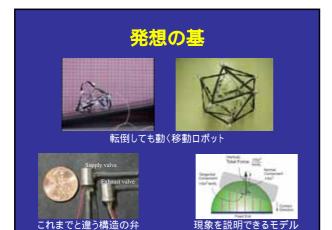


What learnt from soft robotics

Soft-fingered Manipulation natural stability in grasping and manipulation, which originates from local minimum of potential energy

Crawling and Jumping via Deformation store and release of potential energy, working as a mechanical capacitor





平井研究室

ポストドクトラルフェロー 2名 博士後期課程 4名 博士前期課程 16名 学部生 8名

平井研究室

2012年

論文 2 国際会議 3 国内発表 12 J. Food Research System Design & Dynamics

2011年度

論文 3 国際会議 13 国内発表 13 IEEE Trans. Robotics Advanced Robotics

課題

自分で"ソフトロポット"を考案し, その実現可能性について技術的に考察せよ. (将来的にどのような技術が必要か)

> http://www.ritsumei.ac.jp/se/~hirai/ [講義] [2012年度] [特殊講義]