

September 22nd – CBM8

MICCAI 2013 workshop on Computational Biomechanics for Medicine VIII

<http://school.mech.uwa.edu.au/CBM2013/>

- 09.00-09.10 Opening remarks (*Karol Miller*)
- 09.10-12:30 Session 1: Computational Biomechanics of Soft Organs
 - 9.10-10.00: Keynote 1: The barbarians are at the gates: Why computational biomechanics?"
Gabor Fichtinger
 - 10.00-10.30: Modeling Three Dimensional Avascular Tumor Growth. *Sachin Man Bajimaya Shrestha*
- 10.30-11.00 Coffee Break
 - 11.00-11.30: Whole-Body Image Registration Using Patient-Specific Non-linear Finite Element Model. *Mao Li*
 - 11.30-12.00: From Detection to Rupture: A Serial Computational Fluid Dynamics Study of a Rapidly-Expanding, Patient-Specific, Ruptured Abdominal Aortic Aneurysm. *Barry Doyle*
 - 12:00-12:30: Meshless Elasticity Model and Contact Mechanics-based Verification Technique. *Rifat Aras*
- 12.30 – 14.10 Lunch
- 14.10-17:30 Session 2: Musculoskeletal System and Injury Biomechanics
 - 14.10-15.00: Keynote 2: Small Computations in OR. **Kiyoyuki Chinzei**
 - 15.00-15.30: Hip, Knee and Ankle Joint Forces in Healthy Weight, Overweight and Obese Individuals During Walking. *Brooke A Stanford*
- 15.30-16.00 Coffee Break
 - 16.00-16.30: Modelling the Tumour Growth along a Complex Vasculature Using Cellular Automata. *Nathan Deacon*
 - 16.30-17.30: Panel discussion on challenges for computational biomechanics for medicine and closure (led by *Karol Miller*)