

# Paper Presentations

## Friday Morning, Track A (Bioinformatics)

10:15-10:35	Optimising Locality-Sensitive Hashing on Sequences in the Context of Motif Finding <i>Warren Cheung</i>
10:35-10:55	SPiD: An SVM-Based Protein Discriminator for Outer Membrane Proteins <i>Babak Alipanahi Ramandi and Ming Li</i>
10:55-11:15	Finding Important Protein Motions in Solution Through Linear Dimensionality Reduction <i>Krzysztof Borowski and Forbes Burkowski</i>
11:15-11:35	Online Pattern Matching in Sparse Matrices and Contact Maps <i>Robert Fraser</i>
11:35-11:55	Using Dynamic Bayesian Networks to Analyze Genetic Data <i>Zhen Wang and Andrew Wong</i>

## Friday Morning, Track B (Biomedical Engineering)

10:15-10:35	Estimating Heart Movement and Morphological Changes During Robot-Assisted Coronary Artery Bypass Graft Interventions <i>Mathew Anibal Fortes Carias, Cristian Linte, Daniel Cho and Terry Peters</i>
10:35-10:55	A Fast Breast Nonlinear Elastography Reconstruction Technique Using the Veronda-Westman Model <i>Mohammadhosein Amooshahi and Abbas Samani</i>
10:55-11:15	Evaluating a Motor Unit Potential Train Using Cluster Validation Methods <i>Hossein Parsaei and Daniel Stashuk</i>
11:15-11:35	The Application of Quantum Tunneling Compound to Sleep Actigraphy <i>Ken Jones, Martin Bowyer and Mila Kwaitkowska</i>
11:35-11:55	A Technique for Tissue Biomechanical Analysis for Real-time Prostate Tissue Elasticity Reconstruction <i>Seyed Reza Mousavi and Abbas Samani</i>

### Friday Afternoon, Track A (Biomedical Science)

2:45-3:05	In Silico Study of the Myelin Basic Protein C-terminal alpha-Helical Peptide in DMPC and DMPE Lipid Bilayers to Further Multiple Sclerosis Research <i>Kyrylo Bessonov</i>
3:05-3:25	An in silico mathematical model of the initiation of DNA replication <i>Rohan D. Gidvani, Brendan J. McConkey, Bernard P. Duncker and Brian P. Ingalls</i>
3:25-3:45	On sample allocation in differential in-gel electrophoresis: two's a couple, three's a crowd? <i>Owen Woody, Lorna Deeth, Catherine Walden, Thomas Singer and Brendan McConkey</i>
3:45-4:05	Evaluation of New Parameters for Assessment of Stroke Impairment <i>Kathrin Tyryshkin, Janice Glasgow and Stephen Scott</i>
4:05-4:25	A Quick Introduction to Data Compression Through Learning <i>Francisco Claude</i>

### Friday Afternoon, Track B (Medical Imaging)

2:45-3:05	Vessel Tracking for Retina Images Based on Fuzzy Ant Colony Algorithm <i>Sina Hooshyar and Rasoul Khayati</i>
3:05-3:25	Application of a respiratory CT sequence's combined histogram to estimate intra-sequence lung's air volume variations <i>Ali Sadeghi Naini, Rajni V. Patel and Abbas Samani</i>
3:25-3:45	High gain lateral amorphous selenium (a-Se) detector for medical imaging <i>Shiva Abbaszadeh, Kai Wang, Nicholas Allec, Feng Chen and Karim Karim</i>
3:45-4:05	Modulation transfer function of amorphous selenium digital x-ray detectors <i>Yuan Fang, Nicholas Allec and Karim Karim</i>