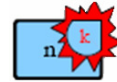


WORKSHOP ON PARAMETERIZED COMPLEXITY



All lectures will take place in Engineering Quad, Building EF, Seminar Room EF122
<http://www.fpt.wikidot.com>

Tuesday, 30 March 2010

Morning Session. Chair: Frances Rosamond

9:00—9:50 Morning Tea.

9:50—10:10 *Welcome* by Frans Henskens, Head of Discipline, CSSE, Univ. Newcastle.

Welcome by Pablo Moscato, Director of Priority Research Centre for Bioinformatics, Biomarker Discovery & Information-Based Medicine (CIBM), Univ. Newcastle.

10:10—11:00 Mike Fellows “Towards Fully Multivariate Algorithmics: New Results and Directions in Parameter Ecology”.

11:00—11:15 Break

11:15—11:45 Ljiljana Brankovic “Combining Two Worlds: Parameterized Approximation for Vertex Cover”.

11:45—12:15 Luke Mathieson “Parameterized Complexity in Practice: Examples in Bioinformatics”.

Lunch: There are many places in the Student Union for lunch, with big tables so we can continue conversations.

Afternoon Session. Chair: Michael Fellows

2:00—2:50 Toby Walsh “Parameterized Complexity in Constraint Programming”.

3:00—3:30 Nina Narodytska “Propagating Conjunction of All Different constraints”.

3:30—4:00 Afternoon Tea.

4:00—4:30 Jochen Renz “A Fixed-parameter Tractable Algorithm for Spatio-Temporal Calendar Management”.

6pm onwards: Picnic BBQ for all and families and children at Foreshore Park. Food provided. Walk towards the little pond to the Old Rail Marshalling Yards Pavilion (Location 5 on Newcastle East Heritage Walk map.)

Wednesday, 31 March 2010

Morning Session. Chair: Ljiljana Brankovic

9:00—9:10 *Welcome* by Jon Borwein, Director of Priority Research Centre for Computer-Assisted Research Mathematics and its Applications (CARMA).

9:10 —10:00 Vladimir Estivill-Castro “The Adaptive Analysis of Algorithms”.

10:00—10:30 Apichat Heednacram “Fixed-Parameter Algorithms for Covering Points with Lines”.

10:30—11:00 Morning Tea

11:00—11:30 Mahdi Parsa “Parameterized Complexity in Computational Game Theory”.

11:30—12:00 Catherine McCartin “Finding Distances between Phylogenetic Trees”.

Afternoon Session. Chair: Luke Mathieson

2:00—2:50 Ron van der Meyden “Parameterized Complexity of Some Problems in Logic and Security”.

2:50—3:15 Frances Rosamond “Fixed Parameter Algorithms for Kemeny Scores and other Voting Problems”.

3:15—3:45 Afternoon Tea

3:45—4:15 Danny Hermelin “Treewidth Governs the Complexity of Target Set Selection”.

4:15—5:00 Michael Fellows “Summary and Open Problem Session”.

5:00 onwards: Beer and informal discussions at the Bar on the Hill (See Campus Map).

Workshop Sponsored by:

- * Parameterized Complexity Research Unit, Office of DVC (Research)
- * Priority Research Centre for Bioinformatics, Biomarker Discovery & Information-Based Medicine (CIBM)
- * Priority Research Centre for Computer-Assisted Research Mathematics and its Applications (CARMA)