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**Bristol Algorithms Days**

**11 - 12 May 2009**

# Programme

# Monday 11th May 2009

Riverside Room, Avon Gorge Hotel

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| 08.30-9.00 | Coffee and registration |  |
| Session I |  |  |
| 09.00-9.15 | Welcome and introduction | Raphaël Clifford |
| 09.15-10.00 | Testing continuous distributions | Artur Czumaj |
| 10.00-10.25 | Fast distance multiplication of unit Monge Matrices | Alexander Tiskin |
| 10.25-10.50 | Deterministic Structures over P2P Networks | Kostas Tsichlas |
| 10.50-11.20 | Coffee break |  |
| 11.20-12.05 | Oblivious interference scheduling | Harald Raecke |
| 12.05-12.30 | Data locality problems and coloured bin packing | Andy Twigg |
| 12.30-2.30 | Lunch |  |
| Session II |  |  |
| 2.30-3.15 | The one-to-many node-disjoint paths problem in certain interconnection networks | Iain Stewart |
| 3.15-3.40 | Biological perspectives on filamental automata | Alan Gibbons & Martyn Amos |
| 3.40-4.05 | Densities and partitions | Sharon Curtis |
| 4.05-4.35 | Coffee break |  |
| 4.35-5.00 | Finding induced paths of given parity in claw free graphs | Pim van 't Hof |
| 5.00-5.25 | Ranking and suggesting popular items | James Cruise |
| Session III |  |  |
| 5.30-6.30 | Breakout session |  |

***Workshop dinner***

The workshop dinner will take place at The Mansion House, Clifton Down, Bristol, BS8 3LJ at 19.00.

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**Tuesday 12th May 2009**

Riverside Room, Avon Gorge Hotel

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| 08.30-9.00 | Coffee |  |
| Session IV |  |  |
| 09.00-9.45 | Efficient rumour spreading (gossiping) methods in wireless/radio networks | Leszek Gasieniec |
| 09.45-10.10 | Expanding ring search algorithms and their energy time efficiency | Ida Pu |
| 10.10-10.35 | The expressive power of binary submodular functions | Stanislav Zivny |
| 10.35-11.05 | Coffee |  |
| 11.05-11.50 | Computing the factors of the Ith cyclotomic polynomial over Fp | Andrew Potter |
| 11.50-12.15 | Pattern matching with few errors and wildcard symbols | Raphaël Clifford |
| 12.15-1.45 | Lunch |  |
| Session V |  |  |
| 1.45-2.30 | Optimising paired and pooled kidney exchanges | David Manlove |
| 2.30-2.55 | New stable marriage problems arising from national matching schemes in Hungary | Péter Biró |
| 2.55-3.20 | Descriptive complexity of optimisation problems | James Gate |
| Session VI |  |  |
| 3.20-4.20 | Breakout session |  |
| Close |  |  |