

| Wednesday 24/8 |                                                                                                                                                                                   |  |
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|                | WABI                                                                                                                                                                              |  |
| 08:30-09:00    | Registration                                                                                                                                                                      |  |
| 09:00-10:15    | Session 11Chair: ?                                                                                                                                                                |  |
| 09:00          | Anna Bomersbach, Marco Chiarandini and Fabio Vandin:<br>An Efficient Branch and Cut Algorithm to Find Frequently Mutated Subnetworks in Cancer                                    |  |
| 09:25          | Alexander Loboda, Maxim Artyomov and Alexey Sergushichev:<br>Solving generalized maximum-weight connected subgraph problem for network enrichment analysis                        |  |
| 09:50          | Sven Jager, Benjamin Schiller, Thorsten Strufe and Kay Hamacher:<br>StreAM-Tg: Algorithms for Analyzing Coarse Grained RNA Dynamics based on Markov Models of Connectivity-Graphs |  |
| 10:15-10:35    | Coffee Break                                                                                                                                                                      |  |
| 10:35-11:25    | Session 12Chair: Michal Ziv-Ukelson                                                                                                                                               |  |
| 10:35          | Yannis Almirantis, Panagiotis Charalampopoulos, Jia Gao, Costas Iliopoulos, Manal Mohamed, Solon Pissis and Dimitris Polychronopoulos:<br>Optimal Computation of Avoided Words    |  |
| 11:00          | Brian Brubach:<br>Further Improvement in Approximating the Maximum Duo-Preservation String Mapping Problem                                                                        |  |
| 11:25-11:30    | Break                                                                                                                                                                             |  |
| 11:30-12:30    | ESA Invited<br>Ola Svennson                                                                                                                                                       |  |
| 12:30-14:00    | Lunch                                                                                                                                                                             |  |
| 14:00-15:15    | Session 13Chair: ?                                                                                                                                                                |  |
| 14:00          | Christopher Schröder and Sven Rahmann:<br>A hybrid parameter estimation algorithm for beta mixtures and applications to methylation state classification                          |  |
| 14:25          | Emilie Renard, Samuel Branders and Pierre-Antoine Absil:<br>Independent Component Analysis to Remove Batch Effects from Merged Microarray Datasets                                |  |
| 14:50          | Dan Deblasio and John Kececioğlu:<br>Predicting core columns of protein multiple sequence alignments for improved parameter advising                                              |  |
| 15:15-15:30    | Break                                                                                                                                                                             |  |
| 15:30-17:10    |                                                                                                                                                                                   |  |
| 15:30          |                                                                                                                                                                                   |  |
| 15:55          |                                                                                                                                                                                   |  |
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| 16:20       |                                       |
| 16:45       |                                       |
| 17:10-17:25 |                                       |
| 17:25-18:15 |                                       |
| 18:15-18:30 | <b>Break</b>                          |
| 18:30-...   | <b>Barbecue (Mathematics canteen)</b> |