

Comparative analysis of complex patterns

Balatonföldvár

Programme

Thursday, June 24

Keynotes

09:30-09:45 András Málnási-Csizmadia: Welcome, overview and perspectives

Session 1: Molecular interaction fingerprints Chair: Péter Hári

09:45-09:55 Zoltán Simon: Overview of the Molecular Interaction Fingerprint (MIF) method

09:55-10:15 Ágnes Peragovics / Margit Víghné Smeller: Comparative analysis of MIF patterns I.

10:15-10:35 Zoltán Brandhuber: Comparative analysis of MIF patterns II.

10:35-10:45 József Gógh: MIF cluster analysis on FDA drugs by LINCS

10:45-11:20 Discussion

11:20-11:40 *Coffe break*

Session 2: Structural dynamics of proteins Chair: Mihály Kovács

11:40-12:05 András Málnási-Csizmadia: An introduction to protein dynamics

12:05-12:30 István Lőrincz: Protein backbone rotational dynamics

12:30-13:00 Discussion

13:00-14:30 *Lunch*

Session 3: To be defined (Complex patterns in clinical research?) Chair: Pál Czobor

14:30-14:55 To be defined (EEG?)

14:55-15:20 To be defined (drug?)

15:20-15:50 Discussion

15:50-16:10 *Coffe break*

Session 4: To be defined (Mathematics of large networks) Chair: László Lovász

16:10-16:35 László Lovász: Mathematical problems of large networks

16:35-17:00 Vince Grolmusz: Mathematical analysis of bionetworks

17:00-17:30 Discussion

17:30-19:30 *Jacuzzi*

19:30- *Dinner*

Friday, June 25

8:00-10:00 *Breakfast*

Participants (total 32):

Czobor Group (Dept. of Psychiatry and Psychotherapy, Semmelweis University): Pál Czobor, + 6 students

Delta Informatika, Inc.: Péter Hári, Zoltán Simon, + 5 software developers

Lovász Group (Dept. of Computer Science, Eötvös Loránd University): László Lovász, Vince Grolmusz, Eszter Sikolya (*Thursday only*), András Zempléni, Attila Deák, András Frank

Málnási-Csizmadia Group (Dept. of Biochemistry, Eötvös Loránd University): András Málnási-Csizmadia, Margit Víghné Smeller, Ágnes Peragovics, Anna Rauscher, Boglárka

Várkuti, Vitalii Stadnyk, Zhenhui Yang (*Thursday only*), István Lőrincz, László Végner, Miklós Képiró

Invited guests: Mihály Kovács (Dept. of Biochemistry, Eötvös Loránd University), Tibor Vellai (Dept. of Genetics, Eötvös Loránd University) (*Thursday only*)