



TÜRK
MATEMATİK
DERNEĞİ

PROGRAM

November 10, 2023, Friday (VYKM-2)

10.00-12.15 : Invited Lecture

Jan Goedgebeur (KU Leuven, Belgium)

An Introduction to Computational Graph Theory and Generation Algorithms

12.15-14.00: Lunch Break

14.00-16:00: Presentations (Each takes 30 minutes including questions)

- Yasemin Büyükçolak, “Properly Colored Hamiltonian Paths in 2-Edge-Colored Bipartite Graphs”, Gebze Technical University, Department of Mathematics
- Murat Umut İzer, “Optimizing Minimum Spanning Trees with Conflict Constraints: An Efficient Branch-and-Bound Algorithm”, Boğaziçi University, Department of Industrial Engineering
- Fatih Yetgin, “On the Directed Hamilton-Waterloo Problem”, Gebze Technical University, Department of Mathematics
- Enis Kaya, “Computing Admissible Arakelov-Green Functions on Metrized Graphs”, KU Leuven, Belgium

November 11, 2023, Saturday (VYKM-2)

10.00-12.15: Invited Lecture

John Gimbel (University of Alaska, USA)

Sparse Sets in Triangle-Free Graphs

12.15-14.00: Lunch Break

14.00-15:30: Presentations (Each takes 30 minutes including questions)

- Kadir Pehlivan, “Random Perfect Graph Generation”, Boğaziçi University, Department of Industrial Engineering
- Burak Nur Erdem, “Integer programming approach to random perfect graph generation and triangle-free k -sparse sets”, Boğaziçi University, Department of Industrial Engineering
- Aslıhan Gür, “ χ_p -critical graphs with radius 1”, Gebze Technical University, Department of Mathematics