

**Steklov Mathematical Institute of RAS
Faculty of Computational Mathematics and Cybernetics of MSU**

**Conference “Optimal Control and Applications”,
Dedicated to the 105-th anniversary of Lev Semenovich Pontryagin
(Moscow, September 24-25, 2013)**

The conference will take place at
Steklov Mathematical Institute of RAS, Gubkina str. 8, Moscow
(Conference hall, the 9th floor)

Program

Tuesday - September 24, 2013

- 9:30-10:00 Registration.
- 10:00-10:20 Opening of the conference.
- 10:20-11:10 **R.V. Gamkrelidze**, *Canonical duality in problems of time optimal control.*
- 11:10-12:00 **M.I. Zelikin, L.V. Lokutsievskiy, R. Hildebrand**, *Chaotic dynamics of optimal trajectories in problems with multidimensional control.*
- 12:00-12:20 Coffee-break.
- 12:20-13:10 **A.B. Kurzhanskii**, *New classes of synthesizing control strategies under absence of matching conditions between controls and disturbances.*
- 13:10-14:00 **N.N. Subbotina**, *Optimal synthesis in dynamic problems.*
- 14:00-15:20 Coffee-break.
- 15:20-16:10 **Yu. S. Ledyayev**, *Differential games as nonsmooth extremal problems.*
- 16:10-17:00 **E.S. Polovinkin**, *Differentiation of set-valued maps and direct method for studying the problems with differential inclusions.*
- 17:00-17:20 Coffee-break.
- 17:20-19:00 Session, dedicated to memory of L.S. Pontryagin.
- 17:20-17:40 **N.Kh. Rozov**, *Opening speech.*
- 17:40-18:20 **S.P. Konovalov**, *Lev Semenovich Pontryagin. Biography in photographs.*
- 18:20-19:00 Memoirs about L.S. Pontryagin.

Wednesday - September 25, 2013

- 10:00-10:20 Coffee-break.
- 10:20-11:10 **A.V. Kryazhimskiy**, E.A. Rovenskaya, *On equilibrium fitting of multi-compartment models.*
- 11:10-12:00 **A.A. Davydov**, *Structural stability of control systems.*
- 12:00-12:20 Coffee-break.
- 12:20-13:10 **V.I. Maksimov**, *On application of the method of auxiliary systems for studying some problems of realizing a prescribed quality of a process.*
- 13:10-14:00 F.P. Vasiliev, **M.M. Potapov**, *Estimates of normal solutions for problems of control and observation and their application to computations.*
- 14:00-15:20 Lunch.
- 15:20-16:10 **A.V. Arutyunov**, *Abnormal problems in extremum theory and analysis.*
- 16:10-17:00 **E.R. Avakov**, *Development of the Lagrange formalism for abnormal problems.*
- 17:00-17:20 Coffee-break.
- 17:20-18:10 A.V. Kryazhimskiy, **A.M. Tarasyev**, *Adaptive economic growth.*
- 18:10-19:00 **S.M. Aseev**, K.O. Besov, S.-E. Ollus, and T. Palokangas, *Two-sector optimal economic growth problem with a random price jump.*