



## 国际非线性动力学分析会议简介

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2007年6月4日~8日, 为纪念 Lyapunov 诞辰 150 周年, 国际非线性动力学分析会议 (International Congress Nonlinear Dynamical Analysis-2007, ICNDA-2007) 在俄罗斯圣彼得堡举行.

有 24 个国家的 400 多位代表出席会议.

会议安排大会报告 11 个:

1. On the life and creative work of A M Lyapunov (Pliss VA, Saint Petersburg University, Russia).
2. Lyapunov bundles in cyclic feedback systems with delays (Sell GR, School of Mathematics, University of Minnesota, USA).
3. On the problems of dynamics and control for hybrid systems (Kurzhanskii A B, Moscow State University, Russia)
4. Methods of control and evaluation for dynamic systems with uncertainties and restrictions (Chernousko F L, Ananyevsky I M, Ovseevich A I, Institute for Problems in Mechanics of RAS, Moscow, Russia)
5. Existence and properties of solutions and variational problem (Cellina A, Universita di Milano Bicocca, Milano, Italy).
6. Lyapunov's direct method for integral equations (Burton T A, Northwest Research Institute, USA).
7. Development of the Lyapunov function method in the theory of heterogeneous and other dynamical systems (Vasiliiev S N, Kozlov R I, Lakeev A V, V.A. Trapeznikov Institute of Control of RAS, Moscow, Russia).
8. First Lyapunov method for strongly nonlinear systems of differential equations (Kozlov V V, V.A. Steklov Mathematical Institute of RAS, Moscow, Russia).

9. Generic dynamics away from homoclinic bifurcations (文兰, 北京大学).

10. Application of new mathematical apparatus "one-dimensional spectral matrix portraits" to the solution of the problem of blade row aero-elastic oscillations (Godunov S K, Sobolev Mathematical Institute, S B of RAS, Novosibirsk, Russia).

11. On variational principles for the systems with unilateral constraints (Rumyantsev V V, A.A. Dorodnitsyn Computational Center RAS, Moscow, Russia).

会议设有 8 个分会场, 计有

1. Stability theory and nonlinear oscillations
2. Nonlinear control
3. Classical mechanics
4. Celestial mechanics
5. Nonlinear differential equations and their applications
6. Mathematical modeling in natural, technical and humanirarian sciences
7. Games theory and its applications in management
8. Chaos theory

中国有北京大学, 北京理工大学, 北京工业大学, 装甲兵工程学院等代表出席会议并宣读论文, 其中北京大学文兰院士被安排一大会报告, 北京理工大学梅凤翔被安排任“经典力学”分会场主席之一.

会议除介绍了 Lyapunov 生平与贡献外, 还在 8 个学科方向上进行了学术交流. 特别是了解到俄罗斯学者的诸多贡献. 会议规定用英语和俄语交流, 对不懂俄语的出席者有点儿困难. 会议出版了一个论文摘要集.