

Prof. Dr. Zsolt Páles
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Position: full professor, scientific vice-rector , head of the Department of Analysis at the Institute of Mathematics of the Debrecen University.

Professor Zsolt Páles is an outstanding mathematician, one of the world-wide leading specialists in the theory of functional equations and inequalities as well as in convex analysis. Since several years he is a member of the Scientific Committee of the annual International Symposia on Functional Equations (51 editions). Within the period of 1980 - 2013 Zsolt Páles has published over 200 articles in the journals keeping the highest international standards. Since two decades he cooperates with mathematicians from the Silesian University of Katowice being, in particular, a coauthor of numerous papers written jointly with Polish functional equationists. He has delivered hundreds of lectures at the universities in more than twenty countries all over the world. His research activity comprises regularity and stability theory of functional equations, convexity and its generalizations; stability of functional inequalities and its consequences concerning regularity; characterization, comparison, equality and homogeneity of mean values; invariance equations; convex and nonsmooth analysis; generalized derivatives and their applications; nonsmooth constrained extremum problems; optimal control theory.

Functional equations

- Stability theory
- Regularity theory
- Composite equations
- Characterization of means

Nonsmooth analysis

- Convex analysis
- Generalized derivatives

Optimization theory

- Nonsmooth programming
- Necessary and sufficient conditions
- Optimal control theory

Fixed point theory

- Variational inequalities
- Iterative methods
- Topological methods