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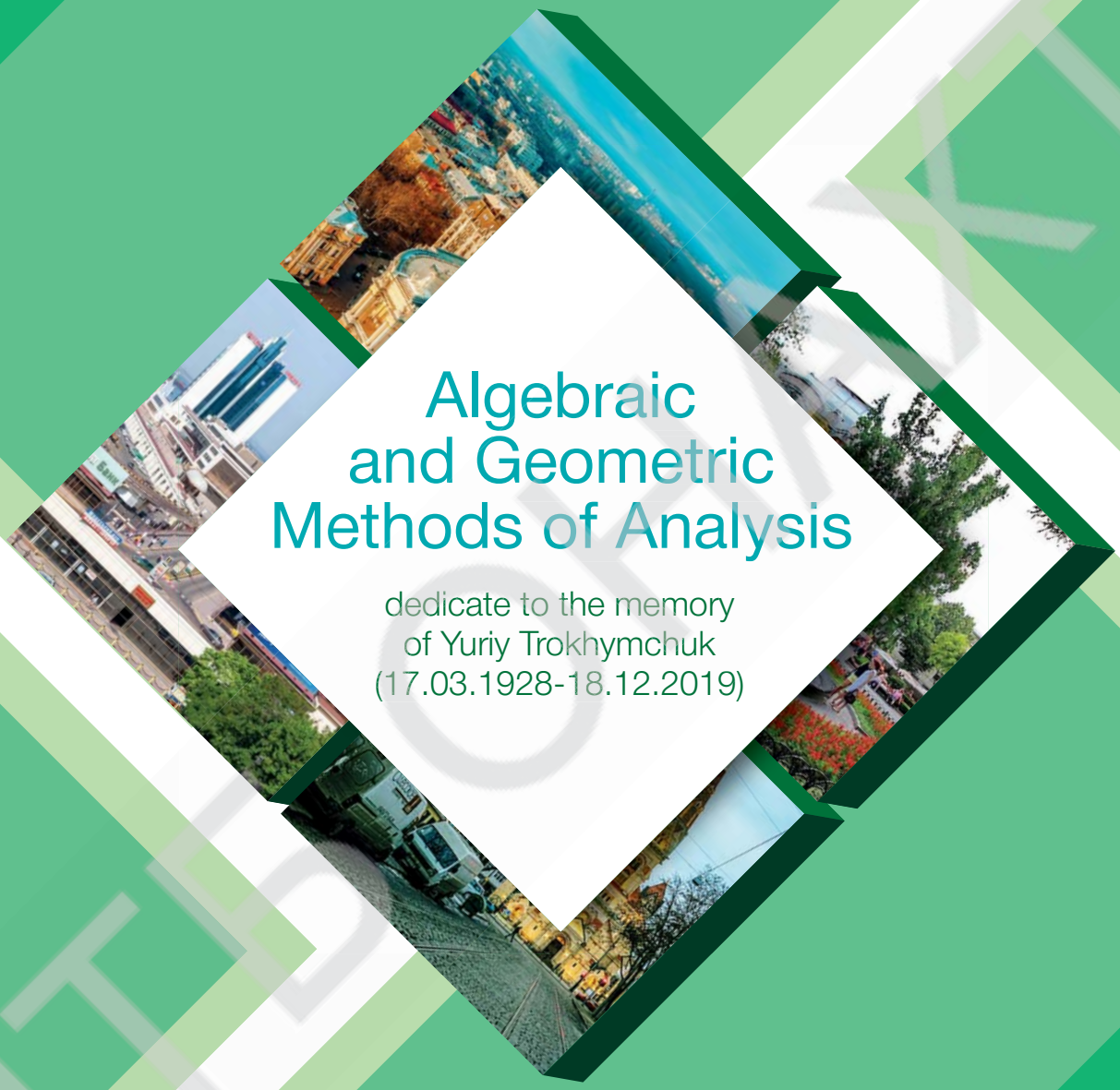

Algebraic and Geometric Methods of Analysis

dedicate to the memory
of Yuriy Trokhymchuk
(17.03.1928-18.12.2019)

May 25-28, 2021
Odesa, Ukraine

List of topics

- Topological methods in analysis
- Geometric problems of complex and mathematical analysis
- Algebraic methods in geometry
- Differential geometry in the whole
- Geometry and topology of differentiable manifolds
- General and algebraic topology
- Geometric and topological methods in natural sciences

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НТБ ОНАХТ

On symmetrization of univalent polynomials

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The problem of T-symmetrization of a univalent in the unit disc $\mathbb{D}$ function $f(z)$ is easy solvable by transformation $f^{(T)}(z) = \left[f(z^T)\right]^{1/T}$, $T = 1, 2, ...$ It does not work for univalent in $\mathbb{D}$ polynomials because the T-symmetrized function is not necessary a polynomial. We suggest a procedure which allows us to symmetrize several univalent in $\mathbb{D}$ polynomials, including Alexander polynomials, Brandt polynomials, de la Vallée Poussin polynomials, Fejér polynomials, Suffridge polynomials, and some others.

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