

Selected Examples Connected to Problems in Metric Fixed Point Theory

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Abstract

There are several problems in metric fixed point theory, which are not popular among researchers. In spite of elementary settings and simple formulation they are not solved for many years.

We can list here, minimal displacement problem, optimal retraction problem, fixed point estimates for rotative mappings, estimates for commuting mappings, and many others. On the basis of some examples we provide an overlook on such cases and stress on difficulties in the field.

The talk is addressed to general audience, not only to specialists in fixed point theory.