Mathematical Sciences

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Four Cities, two Wars and the Birth and Survival of a Mathematical Idea: Musielak-Nakano-Orlicz spaces, Applications and Recent Results.

Aside from their intrinsic mathematical significance, Musielak-Orlicz spaces have recently been found to constitute the right mathematical framework for the description of a variety of physical phenomena, such as (among others) image restoration and the behavior of non-Newtonian fluids. I will present recent results, applications and some open problems, as well as some curious remarks on the origins of these spaces.