

Matrix constructions of finite metric spaces

Bogdana Oliynyk, National University Kyiv-Mohyla Academy, Ukraine

Two metric spaces are called isomorphic if there exists a one-to-one mapping between them that preserves equalities and strict inequalities of distances in these spaces. Each finite metric space is uniquely defined by its matrix of distances as elements of this space are enumerated. We consider some constructions of finite metric spaces up to isomorphism. The matrices of distances of this constructions are characterized.