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SEMI-NORMAL STRUCTURE AND BEST PROXIMITY PAIR RESULTS IN CONVEX METRIC SPACES

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Dedicated to my late friend Hassan Shams (1981–2004), an outstanding math student

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ABSTRACT. A new geometric notion on a nonempty and convex pair of subsets of a convex metric space X , called semi-normal structure, is introduced and used to investigate the existence of best proximity pairs for a new class of mappings, called strongly noncyclic relatively C -nonexpansive. We also study the structure of minimal sets of strongly noncyclic relatively C -nonexpansive mappings in the setting of convex metric spaces.

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