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**Best proximity pairs and equilibrium pairs for Kakutani multimaps**

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**Abstract**

New existence theorems of best proximity pairs for a finite family of Kakutani multimaps are proved in a normed space setting. As applications, new existence theorems of equilibrium pairs for free n-person and 1-person games are obtained. Our results generalize and improve several well-known results. © 2008 Elsevier Ltd. All rights reserved.

**Author Keywords**

Best proximity pair; Equilibrium pair; Fixed point; Free n-person game; Kakutani multimap

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