22(6)

Continuous Selection, Collectively Fixed Points and System of Coincidence Theorems in Product Topological Spaces

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摘要

关键词　continuous selection　collectively fixed point　FC-space

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Continuous Selection, Collectively Fixed Points and System of Coincidence Theorems in Product Topological Spaces

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Abstract　Some new continuous selection theorems are first proved in noncompact topological spaces. As applications, some new collectively fixed point theorems and coincidence theorems for two families of set-valued mappings defined on product space of noncompact topological spaces are obtained under very weak assumptions. These results generalize many known results in recent literature.

Key words　continuous selection　collectively fixed point　FC-space

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