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**Part II A beautiful  
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- Via Sperner's Lemma** ~~The  
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IV *Banach Fixed Point*~~



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~~Proof of the Brouwer Fixed~~  
~~Point Theorem~~ **Upper and**  
**Lower Hemicontinuity**

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**Practice: Example #1** *Fixed Point Iteration* **Fixed point iteration method - idea and example** *Banach fixed point theorem* **Russell's Paradox using Lawvere's Fixed Point Theorem** 06-1 Continuity of Correspondences 13 Fixed

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things never change | Sean  
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point theorems, 3-25-19 part  
2*

# Read Online Kakutani S Fixed Point Theorem And

## Kakutani S Fixed Point Theorem

The Kakutani fixed point theorem can be used to prove the minimax theorem in the theory of zero-sum games. This application was specifically discussed by

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Kakutani's original paper.

Mathematician John Nash used the Kakutani fixed point theorem to prove a major result in game theory. Stated informally, the theorem implies the existence of a Nash

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Kakutani fixed-point theorem  
- Wikipedia

The form of the theorem  
proved by Kakutani was: If

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$x \rightarrow \varphi(x)$  is an upper semi-continuous point-to-set mapping of an  $r$ -dimensional closed simplex  $S$  into its power set  $P(S)$ , then there exists  $x_0 \in S$  such that  $x_0 \in \varphi(x_0)$ . The general scheme of Kakutani's proof may be



# Read Online Kakutani S Fixed Point Theorem And The Minimax Theorem In seen from the one dimensional case.

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Shizuo Kakutani's Fixed  
Point Theorem

KAKUTANI'S FIXED POINT  
THEOREM Theorem: Let  $X \subset$

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The Minimax Theorem  
Let  $C$  be closed, bounded, and convex. For every  $x \in X$  let  $F(x)$  be a non-empty, convex subset of  $X$ . Assume that the graph of the set-valued functions is closed in  $X \times X$ . Then there exists a point  $x^* \in X$  such that  $x^* \in F(x^*)$ .

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KAKUTANI'S FIXED POINT  
THEOREM - University of  
Delaware

In mathematical analysis,  
the Kakutani fixed-point  
theorem is a fixed-point

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theorem for set-valued  
functions. It provides  
sufficient conditions for a  
set-valued function defined  
on a convex , compact subset  
of a Euclidean space to have  
a fixed point , i.e. a point  
which is mapped to a set

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theorem is classically  
equivalent to Brouwer's  
fixed point theorem. The  
constructive proof of (an  
approximate) Brouwer's fixed  
point theorem relies on a  
finite combinatorial  
argument; consequently we



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must restrict our attention  
to uniformly continuous  
functions.

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[1611.02531] Kakutani's  
fixed point theorem in ...  
Kakutani's Fixed Point

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Theorem is a powerful generalization of Brouwer's Fixed Point Theorem. It has several deep and important corollaries in economics, which include: the Arrow-Debreu theorem, which proves the existence of a general

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Kakutani's Fixed Point  
Theorem | Alexander Adam  
Azzam

In mathematics, the

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Markov–Kakutani fixed-point theorem, named after Andrey Markov and Shizuo Kakutani, states that a commuting family of continuous affine self-mappings of a compact convex subset in a locally convex topological vector

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Fixed Point Theorem And  
Space has a common fixed  
point.

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Markov–Kakutani fixed-point  
theorem - Wikipedia  
Kakutani's Fixed Point  
Theorem Theorem 3. (Thm.

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3.4' (Kakutani's Fixed Point Theorem) Let  $X \subseteq \mathbb{R}^n$  be a non-empty, compact, convex set and  $\Psi : X \rightarrow 2^X$  be an upper hemi-continuous correspondence with non-empty, convex, compact values. Then  $\Psi$  has a fixed

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point in  $X$ . Proof. (sketch)  
Here, the idea is to use  
Brouwer's theorem after  
appropriately approximating  
the correspondence with a  
function.

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Theorem Theorem 3 Thm 34  
Kakutani's ...

Equivalent forms of the  
Brouwer fixed point theorem  
I Idzik, Adam, Kułpa,  
Władysław, and Maćkowiak,  
Piotr, Topological Methods



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In Nonlinear Analysis, 2014  
Existence of Solutions of a  
Nonlocal Elliptic System via  
Galerkin Method Cabada,  
Alberto and Corrêa,  
Francisco Julio S. A.,  
Abstract and Applied  
Analysis, 2012

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Kakutani : A generalization  
of Brouwer's fixed point  
theorem

Kakutani theorem Let  $X$   
be a non-empty compact  
subset of  $\mathbb{R}^n$

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The Minimax Theorem  
Let  $X^*$  be the set of its subsets, and let  $f: X \rightarrow X^*$  be an upper semi-continuous mapping such that for each  $x \in X$ , the set  $f(x)$  is non-empty, closed and convex.

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Kakutani theorem -  
Encyclopedia of Mathematics  
Section 5.3. Fixed Point  
Theorems: Brouwer's and  
Kakutani's We have already  
studied fixed points for the  
very special case of

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contraction mappings. Here we study them for general functions as well as for correspondences. Definition 1 Let  $X$  be a nonempty set and  $f : X \rightarrow X$ . A point  $x^* \in X$  is a fixed point of  $f$  if  $f(x^*) = x^*$ .

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Economics 204 Summer/Fall  
2011 Section 5.3. Fixed  
Point ...

The following, Kakutani's  
fixed-point theorem for  
correspondences (Th. 1.10.2

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in (Debreu, 1959)), can be derived from Brouwer's Fixed Point Theorem via a continuous selection argument.

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Kakutani's fixed-point theorem is quite similar to Brouwer's fixed point theorem - the main difference is that Brouwer speaks about single-valued functions and Kakutani about multi-valued functions.



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There is a way to go from  
multi-valued functions to  
single-valued ones - it is  
Michael's selection theorem.

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Reducing Kakutani's fixed-  
point theorem to Brouwer's

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In order to apply the Kakutani fixed point theorem to  $G$ , we must show that  $G$  is upper semicontinuous. Since  $S''$  is compact, we will show that the graph of  $G$  is closed. Let  $(y, z)$  be a

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point in  $S^{n-1} \times S^{n-1}$  which  
does not lie on the graph of  
 $G$ , i.e.,  $z \in G^{-1}(y)$ . Then there  
exists an open neighborhood  
 $V$  of  $z$  in  $S^{n-1}$  which is  
disjoint from  $G^{-1}(y)$ .

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Kakutani's Fixed Point  
Theorem Kakutani's fixed point  
theorem generalizes  
Brouwer's fixed point theorem  
in two aspects. A point-to-

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point mapping is generalized  
to point-to-set mapping, and  
continuous mapping is  
generalized to upper semi-  
continuous mapping. Denition  
2.1.

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KAKUTANI'S FIXED POINT  
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Kakutani's fixed point theorem guarantees the existence of a fixed point if the following four conditions are satisfied. is

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compact, convex, and  
nonempty. is nonempty.

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