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Fixed Point
Theorem And
The Minimax
Theorem In
And The
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Theorem In

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experience nearly

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~~Fixed Point M-04~~

~~08 Brouwer's Fixed~~

~~Point Theorem~~

~~Brouwer's fixed~~

~~point theorem 06-2~~

Closed Graphs and

Fixed Points of

Correspondences

~~Lecture 53/65: The~~

~~Fixed Point~~

~~Theorem Proving~~

~~Brouwer's Fixed~~

~~Point Theorem |~~

~~Infinite Series~~

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Fixed Points The

~~Kakutani - von
Neumann and
Chacon~~

~~Transformations~~

Part II A beautiful
combinatorial
proof of the
Brouwer Fixed
Point Theorem -

Via Sperner's
Lemma ~~The
Kakutani - von
Neumann and~~

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~~Chacon~~ Fixed Point

~~Transformations~~

~~Part IV Banach~~

~~Fixed Point~~

~~Theorem In~~

~~Fundamental~~

~~Theorem of Algebra~~

~~—Numberphile From~~

~~the archives:~~

~~Robert F. Kennedy~~

~~on \"Face the~~

~~Nation\" in 1967 A~~

~~Simple Proof of the~~

~~Brouwer Fixed~~

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~~Fixed Point~~

Upper and Lower
Hemicontinuity

The Minimax
Practice: Example

~~Theorem~~
#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

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Continuity of

Correspondences

13 Fixed Point

Theorem Schauder

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Topology - 15.1 -

Brouwer Fixed

Point Theorem

Lefschetz Fixed

Point Theorem

Banach Fixed Point

Theorem The

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Brouwer Fixed

Point Theorem:

Why some things
never change |

Sean Mooney Game

Theory - ACIGT -

Mixed Strategy

Exercises Topology

\u0026 Analysis:

winding number, big
fixed point

theorems, 3-25-19

part 2

Kakutani S Fixed

Page 10/39

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Fixed Point

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 Kakutani's original paper.

Mathematician John

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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 equilibrium in every finite game with mixed ...

Kakutani fixed-

Page 12/39

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Fixed Point -

Wikipedia

The form of the
Theorem And
The Minimax
Theorem by
Kakutani was: If

$x \in (x)$ 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 $x 0$

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Fixed Point Theorem And The Minimax Theorem
(x 0). The general scheme of Kakutani's proof may be seen from the one dimensional case.

Shizuo Kakutani's
Fixed Point
Theorem

KAKUTANI ' S
FIXED POINT
THEOREM

Page 14/39

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Theorem: Let X

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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Fixed Point
Theorem And

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FIXED POINT
THEOREM - In

University of
Delaware

In mathematical
analysis, the
Kakutani fixed-
point theorem is a
fixed-point theorem
for set-valued
functions. It

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Fixed Point
Theorem And
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Theorem In

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 containing it.

Kakutani fixed-point theorem -

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It; p | > In
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analysis |, the
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Kakutani's fixed point theorem is

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Fixed Point

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 must restrict our attention to

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uniformly
continuous
functions.

The Minimax

Theorem In

[1611.02531]

Kakutani's fixed
point theorem in ...
Kakutani ' s Fixed
Point Theorem is a
powerful
generalization of
Brouwer ' s Fixed
Point Theorem. It

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has several deep and important corollaries in economics, which include: the Arrow-Debreu theorem, which proves the existence of a general equilibrium of an economy under certain assumptions.

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Kakutani's Fixed
Point Theorem |
Alexander Adam
Azzam

In mathematics, the
Markov – Kakutani
fixed-point
theorem, named
after Andrey
Markov and Shizuo
Kakutani, states
that a commuting
family of continuous
affine self-mappings

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of a compact
convex subset in a
locally convex
topological vector
space has a
common fixed point.

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 And

Theorem) Let X

\mathbb{R}^n be a non-empty,

compact, convex

set and $\Gamma : X \rightarrow 2^X$

be an upper hemi-
continuous

correspondence

with non-empty,

convex, compact

values. Then Γ has

a fixed point in X .

Proof. (sketch)

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Here, the idea is to use Brouwer's theorem after appropriately approximating the correspondence with a function.

Kakutani's Fixed Point Theorem
Theorem 3 Thm 34
Kakutani's ...
Equivalent forms of

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the Brouwer fixed point theorem I
Idzik, Adam, Kulpa, Władysław, and Maćkowiak, Piotr,
Topological Methods in Nonlinear Analysis,
2014 Existence of Solutions of a Nonlocal Elliptic System via Galerkin Method Cabada, Alberto and

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Corrêa, Francisco

Julio S. A., Abstract
and Applied
Analysis, 2012

Theorem In

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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$\{R\}^{\{n\}}$, 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.

Kakutani theorem -
Encyclopedia of

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Mathematics

Section 5.3. Fixed Point Theorems: Brouwer's and

Kakutani's We have already studied fixed points for the very special case of contraction mappings. Here we study them for general functions as well as for correspondences.

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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 $f(x) = x$.

Economics 204

Summer/Fall 2011

Section 5.3. Fixed

Point ...

The following,

Kakutani's fixed-

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Fixed Point Theorem And The Minimax Theorem
Fixed point theorem for correspondences (Th. 1.10.2 in Debreu, 1959), can be derived from Brouwer's Fixed Point Theorem via a continuous selection argument.

HET: Fixed-Point Theorems
Kakutani's fixed-

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Fixed Point 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. There is a way to go from multi-valued functions to single-

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Fixed Point - it is

Michael's selection
theorem.

The Minimax

Theorem In

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

...

In order to apply
the Kakutani fixed
point theorem to G ,
we must show that
 G is upper

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Fixed Point.

Since S^{n-1} is compact, we will show that the graph of G is closed. Let (y, z) be a point in $S^{n-1} \times S^{n-1}$ which does not lie on the graph of G , i.e., $z \neq G(y)$. Then there exists an open neighborhood V of z in S^{n-1} which is disjoint from $G(y)$.

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Some applications
of the Kakutani
fixed point theorem

...

Kakutani ' s Fixed
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Kakutani ' s xed
point theorem

generalizes

Brouwer ' s xed
point theorem in

two aspects. A

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Fixed-Point
mapping is
Theorem And
The Minimax
Theorem
Theorem
is generalized to point-
to-set mapping, and
continuous mapping
is generalized to
upper semi-
continuous mapping.
Denition 2.1.

KAKUTANI ' S
FIXED POINT
THEOREM AND

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THE MINIMAX

THEOREM IN ...

Kakutani's fixed
point theorem

guarantees the
existence of a fixed
point if the
following four
conditions are
satisfied. is
compact, convex,
and nonempty. is
nonempty.

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