

同志社大学

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研 究 題 目	社会的選択理論と理論経済学の数学的構造についての研究	
研 究 成 果 の 概 要	<p>近似的なブラウワー、角谷の不動点定理、およびある種の非定値性を満たす関数、多価関数（対応）についてのブラウワー、角谷の不動点定理構成的証明と、その一般均衡理論やゲーム理論への応用について研究し、以下の論文を発表した。</p> <p>"Equivalence between an approximate version of Brouwer's fixed point theorem and Sperner's lemma: A constructive analysis", <u>Applied Mathematics E-Notes</u>, Vol. 11, pp. 238-243, 国立清華大学（台湾）(National Tsing Hua University), 2011. (査読有)</p> <p>"A proof of constructive version of Brouwer's fixed point theorem with uniform sequential continuity", <u>ISRN Applied Mathematics</u>, vol. 2011, Article ID 276040, pp. 1-9, Hindawi Publishing Corporation, 2011. (査読有)</p> <p>"Proof of Constructive Version of the Fan-Glicksberg Fixed Point Theorem Directly by Sperner's Lemma and Approximate Nash Equilibrium with Continuous Strategies: A Constructive Analysis", <u>IAENG International Journal of Applied Mathematics</u>, vol. 41, No. 2, pp. 133-140, International Association of Engineers, 2011. (査読有)</p> <p>"Equivalence between the existence of an approximate equilibrium in a competitive economy and Sperner's lemma: A constructive analysis", <u>ISRN Applied Mathematics</u>, vol. 2011, Article ID 384625, pp. 1-15, Hindawi Publishing Corporation, 2011. (査読有)</p> <p>"A Constructive Analysis of Convex-Valued Demand Correspondence for Weakly Uniformly Rotund and Monotonic Preference", with Atsuhiko Satoh, <u>Advances in Decision Sciences</u>, vol. 2011, Article ID 960819, pp. 1-7, Hindawi Publishing Corporation, 2011. (査読有)</p> <p>"A proof of the existence of approximate Nash equilibrium in strategic game with multi-valued optimal responses directly by Sperner's lemma: A constructive analysis", <u>Mathematical Modelling and Applied Computing</u>, Vol. 2, pp. 309-319, Research India Publications, 2011. (査読有)</p> <p>"On constructive versions of Tychonoff's and Schauder's fixed point theorems", <u>Applied Mathematics E-Notes</u>, Vol. 11, pp. 125-132, 国立清華大学（台湾）(National Tsing Hua University), 2011. (査読有)</p>	