

# 2009年度記録

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## 1 出版

- 学術論文

1. Takakazu Mori, Mariko Yasugi, Yoshiki Tsujii, “Fine-computable functions on the unit square and their integral”, *Journal of Universal Computer Science Issue 6*, vol.15 (June, 2009), 1264-1279.
2. Yoshiki Tsujii, Takakazu Mori, Mariko Yasugi, Hideki Tsuiki, “Fine-continuous functions and fractals defined by infinite systems of contractions”, *LNAI 5489*, to appear.
3. Yoshiki Tsujii, Takakazu Mori, Mariko Yasugi, Hideki Tsuiki, *Random iteration algorithm for graph-directed sets*, Proceedings of the Sixth International Conference on Computability and Complexity in Analysis, 2009, 245-256 (ISBN 978-3-939897-12-5); available at <http://drops.dagstuhl.de/opus/volltexte/2009/2275>
4. Takakazu Mori, Yoshiki Tsujii and Mariko Yasugi, *Computability of probability distributions*, Proceedings of the Sixth International Conference on Computability and Complexity in Analysis, 2009, 185-196 (ISBN 978-3-939897-12-5); available at <http://drops.dagstuhl.de/opus/volltexte/2009/2270>
5. Mariko Yasugi and Masako Washihara, *Sequential computability of a function -limiting recursion versus effective uniformity*, *Scientiae Mathematicae Japonicae*, accepted.

- 投稿論文

1. 八杉満利子, “極限再帰性という計算概念の基礎を求めて - コンパクト性を中心に - ”, *科学基礎論研究*へ (January 17, 2010).

## 2 講演

1. CCA2009-1 Ljubljana, Slovenia, August 20, 2009  
Takakazu Mori, Yoshiki Tsujii and Mariko Yasugi, *Computability of probability distributions*
2. CCA2009-2 Ljubljana, Slovenia, August 21, 2009  
Yoshiki Tsujii, Takakazu Mori, Mariko Yasugi, Hideki Tsuiki, “Random iteration algorithm for graph-directed sets”
3. LGS6 (Logic, Game Theory and Social Choice 6), University of Tsukuba, 26-29, August 2009; Mariko Yasugi, “Computation in the Limit - its Image and Philosophy Behind-”, Session 4Ma: Simulation and fMRI Studies on Human Cognition and Social Phenomena, August 29, 2009.
4. Seminar for Computability of discontinuous functions and related topics 09-1, Kyoto Sangyo University and Kyoto University, December 18,19 and 21, 2009. Mariko Yasugi, “Compactness as a philosophical foundation of computation in the limit”, December 19, 2009.
5. Seminar for Computability of discontinuous functions and related topics 09-2, Kyoto Sangyo University and Kyoto University, January 8 and 9, 2010. Mariko Yasugi and Masako Washihara (January 8) , “Sequential computability of a function - limiting recursion versus effective uniformity - “, January 8, 2010.
6. Workshop on Constructive Aspects of Logic and Mathematics, March 8-12, 2010, Kanazawa, Japan; Mariko Yasugi and Masako Washihara (March 10), “On sequential computability of a function”.

## 3 海外出張

1. CCA 2009, Ljubljana, Slovenia, August 18-24 2009

## 4 国内出張

- LGS 6, 筑波大学( 大学会館 ) 8月28 - 29、2009
- Workshop on Constructive Aspects of Logic and Mathematics, 金沢エクスセル東急 3月9 - 10、2010

## 5 委員等

- 京都産業大学 評議員 2010年2月26日－3年間  
評議委員会 2010年3月26日(ガーデンパレス 京都)
- \*Editor Journal of Universal Computer Science  
\*Editor 国際数理科学協会 Scientiae Mathematicae (Group Logics)  
Editorial work 2件  
\*Editor The Oriental Journal of Mathematics (India: M. Ito in chief)  
Editorial work 1件
- 日本学会議連携会員 平成18年8月20日－平成23年9月30日  
展望原案(数理論理学と数学基礎論)作成  
<http://www.scj.go.jp/ja/info/kohyo/pdf/kohyo-21-h-3-2.pdf>
- NSF Review

## 6 Review

- Mathematical Reviews Reviewer Number: 018162
  1. Ordinal analysis of non-monotone  $\Pi_1^0$ -definable inductive definitions, by Wolfram Pohlers, APAL 156(2008), 160-169. July 23, 2009.
  2. Sequences of real functions on  $[0, 1]$  in constructive reverse mathematics, by Hannes Diener and Iris Loeb, Annals of Pure and Applied Logic 157 (2009), 50-61. September 3, 2009. MR2490411
  3. Patterns of resemblance of order 2, by Timothy J. Carlson, Annals of Pure and Applied Logic 158(2009), 90-124. December 23, 2009.

## 7 研究費

- 科学研究費補助金 基盤研究C 研究代表者 平成20年－平成22年
- 科学研究費 分担者(基盤C) 研究代表者 小田秀典 平成21年－23年

## 8 研究会等主催

1. Seminar by Peter Schuster: (英国・リーズ大学)

Noetherian Rings and Orders (ヒルベルトの基底定理の新しい構  
成的証明)

平成22年3月5日(金) 14時30分 ~ 16時30分

京都産業大学第3研究室棟会議室