CV

Personal

- Name: Ken Saito
- Date of Birth: May 3, 1991
- Birthplace: Tsuruoka, Yamagata, Japan
- E-mail: kensaito "at" ims.is.tohoku.ac.jp

Educational Background

- Mathematical System Analysis I, System Information Sciences, Division of Mathematics, Graduate School of Information Sciences, Tohoku University
  April, 2016 - March, 2023
  April, 2014 - March, 2016 (Master)
  Adviser: Masaaki Harada
- Department of Mathematical Sciences, Faculty of Science, Yamagata University
  April, 2010 - March, 2014 (Bachelor)
  Adviser: Masaaki Harada
- Tsuruoka Minami High School
  April, 2007 - March, 2010 (Graduated)

Publications

Submitted

- Construction for both self-dual codes and LCD codes
  K. Ishizuka and K. Saito
  Submitted to Advances in Mathematics of Communications, (2021)

In Press

-

In Print

- On the existence of quaternary Hermitian LCD codes with Hermitian dual distance 1
  K. Ishizuka and K. Saito
  Discrete Math. **345**, (2022), 112702
  Published: February, 2022
- On the minimum weights of binary LCD codes and ternary LCD codes
  M. Araya, M. Harada and K. Saito
  Finite Fields and Their Applications **76**, (2021), 101925
  Published: September, 2021

- Characterization and classification of optimal LCD codes
  M. Araya, M. Harada and K. Saito
  Designs, Codes and Cryptogr. **89**, (2021), 617–640
  Published: April, 2021
- Quaternary Hermitian linear complementary dual codes
  M. Araya, M. Harada and K. Saito
  IEEE Trans. Inform. Theory **66**, (2020), 2751–2759
  Published: April, 2020
- Remark on subcodes of linear complementary dual codes
  M. Harada and K. Saito
  Information Processing Letters **159–160** (2020), 105963
  Published: April, 2020
- Binary linear complementary dual codes
  M. Harada and K. Saito
  Cryptography and Communications **11** (2019), 677–696
  Published: July, 2019
- Self-dual additive F_4-codes of lengths up to 40 represented by circulant graphs
  K. Saito
  Advances in Mathematics of Communications **13** (2019), 213–220
  Published: February, 2019
- Singly even self-dual codes constructed from Hadamard matrices of order 28
  M. Harada and K. Saito
  Australasian Journal of Combinatorics **70** (2018), 288–296
  Published: December, 2017
- On the classification of $\mathbb{Z}_4$-codes
  M. Araya, M. Harada, H. Ito and K. Saito

Talks

- Binary Linear Complementary Dual Codes
  実験計画法ならびに情報数理と関連する組合せ構造 2018
  神戸大学 瀧川記念学術交流会館 大会議室
  November 2, 2018

- Binary linear complementary dual codes
  The Japanese Conference on Combinatorics and its Applications
  in Sendai
  Sendai International Center
  May 20, 2018

- On binary codes with complementary dual
  The 5th Taiwan-Japan Conference on Combinatorics and its Applications National Taiwan Normal University
  March 29, 2018

- Singly even self-dual codes constructed from Hadamard matrices
  研究集会『実験計画法と符号および関連する組合せ構造』2017
  湯河原温泉 おんやど恵
  November 24, 2017

- 単純グラフから構成される符号の分類
  日本数学会 2017 年度秋季総合分科会
  山形大学 小白川キャンパス
  September 13, 2017

- On additive $\mathbb{F}_4$-codes constructed from graphs
  第 13 回組合せ論若手研究集会
  慶應義塾大学 矢上キャンパス
  March 1, 2017

- Additive F_4-codes constructed by circulant graphs
  研究集会「実験計画法と符号および関連する組合せ構造」
  秋保リゾートホテルクレセント
  November 29, 2016
- 巡回行列から構成される 4 元体上の符号の分類
  離散数理セミナー
  山形大学理学部 1 号館
  June 9, 2016
- Circulant graph code の性質と分類
  ミニ集会「代数的組合せ論とその周辺」
  東北大学情報科学研究科
  March 8, 2016