The 10th Symposium on Algebra and Computation (AC2013)

Organizers
    Hirofumi Tsumura (Tokyo Metropolitan Univ.)
    Shigenori Uchiyama (Tokyo Metropolitan Univ.)
    Katsushi Waki (Yamagata Univ.)
    Takuya Ikuta (Kobe Gakuin Univ.)
    Yukihiro Uchida (Tokyo Metropolitan Univ.)

Date: 17(Tue.) – 19(Thu.) December 2013
Place: Tokyo Metropolitan University Room 204 in Building No. 11

[Program]

Dec. 17（Tue.）

10:20 - 10:25: Opening

10:30 - 11:00: Takao Komatsu (Hirosaki University)
"Balancing with binomial coefficients"

11:00 - 11:30: O.Khadir (University of Hassan II Mohammedia-Casablanca),Takao Komatsu (Hirosaki University)
"On the modular equation $3^x \equiv b\ [p]$ when p is prime"

11:40 - 12:00: Ryozo Morikawa (Professor Emr. Nagasaki University)
"Decomposition of a set of integers as a direct sum of two subsets"

14:00 - 14:50: [Special lecture]Yoshiyuki Yokota (Tokyo Metropolitan University)
"Dilogarithm functions and knot invariants"

15:00 - 15:30: Sho Takemori (Kyoto University)
"Computation of Siegel modular forms of degree 2 with Sage"

15:30 - 15:50: Nao Takeishi (Tsuda College)
"Method and calculation of finding all elliptic curves with good reduction everywhere over number fields"

16:00 - 16:50: [Special lecture]Kenichi Kawarabayashi (National Institute of Informatics)
"Algorithms and analysis of huge graph"

Dec. 18（Wed.）

10:00 - 10:30: Koji Momihara (Kumamoto University)
  "The problem on inequivalence of skew Hadamard difference sets"

10:30 - 11:00: Yoshitaka Sasaki (Osaka University of Health and Sport Sciences), Yasuo Ohno (Kinki University)
  "Various properties of poly-Euler numbers"

11:10 - 11:40: Yasuyuki Hirano (Naruto University of Education), Takao Sumiyama (Aichi Institute of Technology)
  "On repeated iterations of some operations on positive integers"

13:30 - 14:20: [Special lecture] Hiroshi Nozaki (Aichi University of Education)
  "An algorithm for an embedding of a directed graph to a complex sphere"

14:35 - 15:05: Masatake Hirao (Tokyo Woman's Christian University), Masanori Sawa (Nagoya University)
  "Characterizing optimum experimental designs in terms of finite irreducible reflection groups"

15:05 - 15:30: Yiling Lin (Nagoya University), Miwako Mishima (Gifu University), Junya Satoh (Nagoya University), Masakazu Jimbo(Nagoya University)
  "The multiplicative order of a unit and its application to equi-difference conflict avoiding codes"

15:45 - 16:05: Kohei Yamada (Tokyo University of Science), Nobuko Miyamoto(Tokyo University of Science)
  "Construction of Orthogonal Arrays from Baer subplanes"

16:05 - 16:35: Masanori Sawa (Nagoya University)
  "Ellison's error – Waring's problem"

16:45 - 17:15: Sho Suda (Aichi University of Education), Hiroshi Nozaki (Aichi University of Education)
  "Association schemes related to weighing matrices"

Dec. 19（Thu.）

10:00 - 10:30: Shun'ichi Yokoyama (Kyushu University)
"Computing resultant matrix of general multivariate polynomials and its determinant using Magma"

10:40 - 11:10: Shin Harase (Tokyo Institute of Technology), Ryuichi Ohori(The University of Tokyo)
"A search for extensible low-WAFOM point sets"

13:30 - 14:20: [Special lecture] Iwao Kimura (Nagoya University)
"Computation of Modular Forms"

14:30 - 15:00: Tetsuya Taniguchi (Gakushuin University)
"On Fast Computation of "Round Robin GCD""

15:00 - 15:30: Takanori Yasuda (Institute of Systems, Information Technologies and Nanotechnologies), Tsuyoshi Takagi (Kyushu University), Kouichi Sakurai (Kyushu University / Institute of Systems, Information Technologies and Nanotechnologies)
"Pairing-Friendly Reductions of Elliptic Curves over Number Fields"

15:40 - 16:00: Akira Miyawaki (Osaka University), Takanori Ayano (Osaka University), Joe Suzuki (Osaka University)
"Toward Pairing-based Cryptography using Super-elliptic Curves-Using Harasawa-Suzuki Representation-"

16:00 - 16:20: Kenichiro Hayasaka (Kyushu University), Kazumaro Aoki (NTT Secure Platform Laboratories), Tetsutaro Kobayashi (NTT Secure Platform Laboratories), Tsuyoshi Takagi (Kyushu University)
"A Construction of 3-dimensional Lattice Sieve for Number Field Sieve over $GF(p^n)$ "

16:20 - 16:40: Ryosuke Takahashi (Okayama University), Yasuyuki Nogami(Okayama University)
"Cyclic Vector Multiplication Algorithm for Extension Field and Its Application to Subfields"

16:40 - 16:50: Closing