The 7th Symposium on Algebra and Computation (AC2007)

Organizers

Ken Nakamula (Tokyo Metropolitan Univ.)

Michio Ozeki (Yamagata Univ.)

Nobuki Takayama (Kobe Univ.)

Katsushi Waki (Yamagata Univ.)

Hirofumi Tsumura (Tokyo Metropolitan Univ.)

Shigenori Uchiyama (Tokyo Metropolitan Univ.)

Program

Dec. 5 (Wed.)

9:20 - 9:30: Opening

9:30 - 10:00: Katsushi Waki(Yamagata University)

"On calculation of Decomposition numbers by GAP"

10:10 - 10:50: Hiromichi Yamada(Hitotsubashi University)

"Computation of affine vertex operator algebras by Asir"

11:10 - 11:40: Takuya Ikuta(Kobe Gakuin University), Akihiro Munemasa(Tohoku University)

"A new non-amorphous association sceheme on $GF(2^{20})$"

11:50 - 12:10: Naoyuki Horiguchi(Chiba University)

"On the maximum clique and coclique designs and reconstructions of some strongly regular graphs"

14:00 - 14:50: [Special lecture] Fidel Nemenzo (Univ. Philippines)

"Counting self-dual codes over finite rings"

15:10 - 15:40: Michio Ozeki(Yamagata University)

"Computation of the coset weight distributions of second order Reed-Muller code of length 64 (A joint research with Prof. K. Waki)"

15:50 - 16:20: Akihiro Munemasa(Tohoku University)

"Classification of ternary extremal self-dual codes of length 28 (Jjoint work with Masaaki Harada and Boris Venkov)"

16:30 - 17:00: Yasutsugu Fujita(Tohoku Gakuin University)

"Any Diophantine quintuple contains a regular Diophantine quadruple"

Dec. 6 (Thu.)

10:00-10:20: Koji Yamaguchi, Naoto Niki(Tokyo University of Science)

"Base transformation algorithm of the symmetric polynomials for use in statistics"

10:30 - 11:00: HASHIMOTO Ryūta(Takuma national institute of technology)

"Examples of discriminants of quadratic orders with large fundamental units attached to a fixed length of the period of continued fractions"

11:20 - 12:10: [Special lecture] Yuichi Komano(Toshiba Corporation, Japan)

"Public Key Cryptosystems and Provable Security"

14:00 - 14:40: Akinari Hoshi(Waseda University)

"Note on the field isomorphism problem of generic polynomials (joint work with K. Miyake)"

14:50 - 15:10: Tanaka Satoru, Nishimoto Keiichiro, MATSUI Tetsushi, Uchiyama Shigenori, NAKAMULA Ken(Tokyo Metropolitan University)

"Status and issues on development NZMATH"

15:20 - 15:50: ICHIKI Shingo, OGURA Naoki, KOIZUMI Masahiro, NISHIMOTO Keiichiro, TANAKA Satoru, MATSUI Tetsushi, UCHIYAMA Shigenori, NAKAMULA Ken(Tokyo Metropolitan Univ.)

"A Brief Introduction to NZMATH"

16:10 - 17:00: [Special lecture] Tatsuyoshi Hamada(Fukuoka University)

"Forests of mathematical software, KNOPPIX/Math"

Dec. 7 (Fri.)

10:20 - 10:40: Ryozo MORIKAWA(Tokyo Metropolitan Univ.)

"Some concepts and methods to investigate problems of Waring type."

10:50 - 11:10: Takao Komatsu(Hirosaki University), Carsten Elsner(FHDW Hannover)

"Three term recurrence relations associated with integer sequences"

11:20 - 11:40: Masanobu Kaneko(Kyushu University), Masayuki Noro(Kobe University),

Ken'ichi Tsurumaki(Oracle Corporation Japan)

"On a conjecture for the dimension of the space of the multiple zeta values"

13:30 - 14:20: [Special lecture] Andrej Dujella (Univ. Zagreb, CROATIA)

"Construction of high rank elliptic curves and related Diophantine problems"

14:40 - 15:10: MATSUI, Tetsushi(Tokyo Metropolitan University)

"Computational Complexity and Transcendence of Numbers"

15:20 - 15:50: Iekata Shiokawa, Yohei Tachiya(Keio University)

"Pattern sequences in $\langle q, r \rangle$-numaration sysytems"

16:00 - 16:30: Keiichi Komatsu(Waseda Univ.), Takashi Fukuda(Nihon Univ.)

"A computational approach to Weber's class number problem"

16:30 - 16:40: Closing