

RIMS Workshop “Algebraic system, Logic, Language and Related
Areas in Computer Science”

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The Kyoto University Research Institute for Mathematical Science (RIMS)
workshop “Algebras, logics, languages and related areas” will be held as follows:

Period: 2019-02-20 - 2019-02-22

Location: RIMS Rm 420

Program

Feb. 20 (Wednesday)

11:00~11:30 Yoshiyuki Kunimochi, Shizuoka Institute of Science and Technology
Bases of extractable closures of languages

11:30~12:00 Tadakazu Sato, Toyo University
Invariant groups of cellular automata

Lunch

13:30~14:00 Noriaki Kamiya, Aizu University
A construction of Quandles associated with Quadratic algebras

14:00~14:30 Hisaya Tsutsui) Embry-Riddle University, USA
Super-Prime Rings

Break

14:40~15:00 Daisuke Hosaka, Akita University
Szilard Zsolt Fazekas, Akita University
Akihiro Yamamura, Akita University
Computer experiment for extension of Konig-Egervary theorem

15:00~15:20 Riki Kase, Akita University
Szilard Zsolt Fazekas, Akita University
Akihiro Yamamura, Akita University
Multi Colored Rearrangement Problem of Arrays by Prefix Reversals

Break

15:30~16:00 Ryoma Sin'ya, Akita University
On the infiniteness of languages defined by counting subwords

16:00~16:30 Takeuti Izumi,
National Institute of Advanced Industrial Science and Technology
Modal Logic and Spacial Reasoning

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Feb. 21 (Thursday)

10:30~10:50 Takatoshi Hiraga, Akita University
Szilard Zsolt Fazekas, Akita University
Akihiro Yamamura, Akita University
Counting by deep learning

10:50~11:20 Hidetsune Kobayashi, Institute of Computational Logic
Yoko Ono, Yokohama City University
Generation of propositions in Isabelle/HOL

Break

11:30~12:00 Marcin J. Schroeder Akita International University
Structures and their Cryptomorphisms

12:00~12:30 Jiryo Komeda, Kanagawa Institute of Technology
Infinite sequences of non-Weierstrass numerical semigroups with odd conductor

Lunch

14:00~14:30 Masaaki Kumazawa, Mino-Jiyu Gakuen High School
A New class in BCK-algebras

14:30~15:00 Michiro Kondo, Tokyo Denki University
Radical of filters in residuated lattices

15:00~15:30 Kunitaka Shoji, Shimane University
Semigroups presented by finite congruence classes

Break

15:40~16:10 Hiroyuki Ishibashi, Josei University
Topology of the space on which cellular automata work

16:10~16:40 Szilard Zsolt Fazekas, Akita University
Small non-universal Oritatami systems

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Feb. 22 (Friday)

10:10~10:40 Munehiro Iwami, Shimane University
Comparison of Uniform Semi-Unification and Rational Unification

10:40~11:00 Shuji Jimbo, Okayama University
Kotaro Yamada, Okayama University
Sho Imamura, Okayama University
Kazuki Ueno, Okayama University
Hiromu Okada, Okayama University

Distribution of solutions of FreeCell

Break

11:10~11:40 Hajime Machida, Hitotsubashi University
Classifying minimal groupoids on a finite set

11:40~12:10 Satoshi Yamanaka, National Institute of Technology, Tsuyama College
On weakly separable polynomials and weakly quasi-separable polynomials in q -skew
polynomial rings

Lunch

13:30~14:00 Yuji Kobayashi, Laboratory of Mathematics and Games
Fractional operations on quadratic fields

14:00~14:20 Yuto Inoue, Osaka Prefecture University
Tatsuya Maruta, Osaka Prefecture University
Construction of new Griesmer codes of dimension 5

14:20~14:50 Wataru Kuranaka, Osaka Prefecture University
Tatsuya Maruta, Osaka Prefecture University
Nonexistence of some Griesmer codes of dimension 5

Break

15:00~15:20 Mito Honma, Akita University
Szilard Zsolt Fazekas, Akita University
Akihiro Yamamura, Akita University
Injectivity of subword occurrence indicators

15:20~15:40 Kaito Hoshi, Akita University
Szilard Zsolt Fazekas, Akita University
Akihiro Yamamura, Akita University
Automata reading discontinuous character strings

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