Logic, Language, Algebraic system and Related Areas in Computer Science

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The Kyoto University Research Institute for Mathematical Science (RIMS) workshop
"Logic, Language, Algebraic system and Related Areas in Computer Science"
will be held as follows:

Period: 2021-02-17 -- 2021-02-19
Location： **Online (Zoom)**

Program

Feb. 17 (Wednesday)

Chair　Munehiro Iwami　Shimane University

9:00～9:50(JST)　**Invited Talk**

　　　　　Janet Page　　University of Michigan

　　　　　The non-Gorenstein locus of certain rings arising from finite posets

9:50～10:20 Hisaya Tsutsui　　Embry-Riddle University

　　　　　Some aspects of TTF theory

Break

Chair　Mitsuhiro Miyazaki　Kyoto University of Education

10:40～11:10 Jiryo Komeda　Kanagawa Institute of Technology

　　　　　　Quasi-symmetric numerical semigroups on triple covers of curves

11:10～11:40 Tomoko Adachi and Daichi Kuwajima　Toho University

　　　　　　On Modular Magic Sudoku Solution of small order

11:40～12:10 Ryoma Sin'ya　Akita University

　　　　　Asymptotic Approximation by Regular Languages

Lunch

Chair　Tomoko Adachi　Toho University

13:30～14:20 **Invited Talk**

　　　　　FUTATSUGI, Kokichi　JAIST

　　　　　Specification Verification in CafeOBJ

14:20～15:10 Noriaki Kamiya　　Aizu University

On certain algebraic structures associated with symmetric spaces

Break

Chair　Ryoma Sin'ya　Akita University

15:30～16:00 Tsunekazu Nishinaka　　University of Hyogo

On group algebras of R. Thompson's group F

16:00～16:30 Quawai, Shin　Imamura, Takuma (Kyoto University) and

Matsumoto, Shuya (Keio University)

Hypersequent calculi for first order intermediate logics

16:30～17:00 Peter Leupold　University of Bremen

Tree Languages defined by Patterns

Feb.18 (Thursday)

Chair　Tsunekazu Nishinaka　University of Hyogo

9:00～9:50(JST)　**Invited Talk**

Christopher Briggs　Embry-Riddle Aeronautical University

A growth dichotomy for twisted polynomial algebras

9:50～10:20 Mirai Ikebuchi　MIT

A Lower Bound of the Number of Axioms by Homological Methods

Break

Chair　Michiro Kondo　Tokyo Denki University

10:40～11:10 Cancellation

11:10～11:40 Arimoto Koichi　Kurashiki Amaki Junior High School　and

Hirano Yasuyuki　Hiroshima Institute of Technology

On lattice points which become vertices of Heronian triangles II

11:40～12:10 Kase Riki　Akita University

Puzzle on Projective Plane P3 of Order 3 and Mathieu Groups

Lunch

Chair　Jiryo Komeda　Kanagawa Institute of Technology

13:30～14:00 Satoshi Yamanaka　National Institute of Technology, Tsuyama College

On (ρ,D)-separable polynomials and Galois polynomials in skew
polynomial rings

14:00～14:30 Mitsuhiro Miyazaki　Kyoto University of Education

Some variations of the stable set polytope of a graph and Gorenstein
property of the Ehrhart rings of them

14:30～15:00 Yoshiharu Shibata　Yamaguchi University

On the square of a uniserial module

Break

Chair　Szilard Fazekas　Akita University

15:20〜15:50 Ken-etsu Fujita　Gunma University

　　　　　　　　On formalization of logic puzzles a la Smullyan

15:50〜16:20 TANIGUCHI Masaya　JAIST

　　　　　　　　Continuations and Polymorphic Lambek Calculus

16:20〜16:50 Pál Dömösi　University of Debrecen & University of Nyíregyháza,

　　　　　　　　Géza Horváth University of Debrecen,

　　　　　　　　Ferenc Tamás Molnár　CCLAB　Ltd　and

　　　　　　　　Adama Diene　University of United Arab Emirates

　　　　　　　　Cryptosystems Based on Abstract Finite Automata

Feb.19 (Friday)

Chair　Ken-etsu Fujita　Gunma University

9:00〜9:20(JST) Haruhisa Nakajima　Oberlin University

　　　　　　　　Some properties of rings of invariants of certain reductive groups

9:20〜9:50 Yoshiyuki Kunimochi　Shizuoka Inst. of Sci. and Tech.

　　　　　　　　On Closures of Extractable Codes

9:50〜10:20 Szilard Fazekas, Kaito Hoshi and Akihiro Yamamura　Akita University

　　　　　　　　Two-way jumping automata

Break

Chair　Yoshiyuki Kunimochi　Shizuoka Inst. of Sci. and Tech.

10:40〜11:10 Tatsuya Maruta　Osaka Prefecture University

　　　　　　　　Extension theorems for linear codes

11:10〜11:40 Yuji Kobayashi　Laboratory of mathematics and games

　　　　　　　　Zeropotent algebras of dimension 3 over R

11:40〜12:10 Michiro Kondo　Tokyo Denki University

　　　　　　　　Stabilizers in residuated lattices

Lunch

Chair　Yuji Kobayashi　Laboratory of mathematics and games

13:30〜14:00 Takao Yuyama　Tokyo Institute of Technology

　　　　　　　　Word Problem for Virtually Abelian Groups and Constrained Automata

14:00〜14:30 Shuji Jimbo　Okayama University

　　　　　　　　Conjectures on the Variation in the Eulerian Recurrent Length of

　　　　　　　　Complete Graphs

14:30〜14:50 Masaaki Kumazawa　Mino Jiyu Gakuen High School

　　　　　　Two topics on BCK-algebras

Break

Chair　Shuji Jimbo　Okayama University

15:10〜15:40 Akihiro Yamamura　Akita University

　　　　　　Left simple and left cancellative semigroups without idempotents

15:40〜16:30 **Invited Talk**

　　　　　　Collin Bleak　University of St Andrews

　　　　　　On maximal subgroups of R. Thompson's group V.