

RIMS Workshop "Algebras, logics, languages and related areas"

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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:2018-02-19--2018-02-21

Location : RIMS Rm 420

Program

Feb. 19 (Monday)

- 10:00 ~ 10:30 Noriaki Kamiya Aizu University
A construction of Lie algebras and Freudenthal- Kantor triple systems associated with bilinear forms
- 10:30 ~ 10:50 Haruhisa Nakajima Obirin University
Calculation of invariant rings by cutting semi-invariants
- Break**
- 11:00 ~ 11:30 Shuji Jimbo Okayama University
Learning finite functions by neural networks
- 11:30 ~ 11:50 Koichi Arimoto Naruto University of Education
Yasuyuki Hirano Naruto University of Education
On lattice points which become vertices of Heronian triangles
- Lunch**
- 13:40 ~ 14:00 Hiroyuki Ishibashi Josai University
Injectivity of Cellular Automata
- 14:00 ~ 14:30 Tadakazu Sato Toyo University
Eigenvalues of cellular automata
- Break**
- 14:40 ~ 15:10 Yuji Kobayashi Toho University
Classification of zeropotent algebras of dimension 3
- 15:10 ~ 15:40 Jiryō Komeda Kanagawa Institute of Technology
Diagrams of numerical semigroups whose general members are non-Weierstrass
- 15:40 ~ 16:10 Marcin J. Schroeder Akita International University
Algebraic structure of not-necessarily algebraic structures

Feb. 20 (Tuesday)

- 10:30 ~ 11:00 Ryoma Sin'ya Akita University
Pigeonhole principle in formal languages
- 11:00 ~ 11:30 Jacques Sakarovitch CNRS / Paris Diderot Univ. and Télécom ParisTech
Signature of languages

- 11:30 ~ 12:00 Tsunekazu Nishinaka University of Hyogo
Primitivity of group rings of groups with non-trivial center
- Lunch**
- 13:20 ~ 14:10 **Invited lecture**
Benjamin Fine Fairfield University, USA
Elementary free groups and the Tarski Theorems
- 14:10 ~ 15:10 **Invited lecture**
Alexander Meduna Brno University of Technology, Czech Republic
Jumping grammars
- Break**
- 15:20 ~ 15:50 Kunitaka Shoji Shimane University
Some problems of amalgamation bases
- 15:50 ~ 16:20 Shinnosuke Seki University of Electro-Communications
Cotranscriptional folding: A frontier in molecular engineering

Banquet

Kyoto Shinhankyu Hotel 1F RESTAURANT BOULEVARD
TEL 075-284-1112

Feb. 21 (Wednesday)

- 10:00 ~ 10:20 Daisuke Hosaka
Akihiro Yamamura Akita University
Extension of Konig-Egervary theorem
- 10:20 ~ 10:40 Junya Daikoku
Akihiro Yamamura Akita University
TBA
- 10:40 ~ 11:00 Riki Kase
Akihiro Yamamura Akita University
Rearrangement of two-dimensional colored arrays
- Break**
- 11:10 ~ 11:40 Akihiro Yamamura Akita University
One-factorization of tripartite graph $K(2n, 2n, 2n)$
- 11:40 ~ 12:10 Hajime Machida Hitotsubashi University
Commutation for functions of small arity over small universe
- Break**
- 13:30 ~ 14:00 Szilard Zsolt Fazekas Akita University
Prefix-suffix square reduction
- 14:00 ~ 14:30 Munehiro Iwami Shimane University
Syntactic Unification over Rational Terms
- Break**
- 14:40 ~ 15:10 Satoshi Yamanaka National Institute of Technology, Tsuyama College
On weakly ρ -separable polynomials in skew polynomial rings
- 15:10 ~ 15:40 Tomoko Adachi Toho University
Xiao-Nan Lu Tokyo University of Science
Magic cubes and secret sharing schemes
- 15:40 ~ 16:10 Kayoko Tsuji Tenri University
Conjecture about Regularity of Prefix Square Roots of Regular Languages