

REPORT FROM THE JAPANESE CHAPTER

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EATCS-JP/LA Workshop on TCS and Presentation Awards

The eleventh *EATCS/LA Workshop on Theoretical Computer Science* was held at Research Institute of Mathematical Sciences, Kyoto University, January 28 to January 30, 2014. By attendees' voting, two of us were awarded as follows:

Dr. Akitoshi Kawamura (University of Tokyo) who presented the following paper, was selected at the eleventh EATCS/LA Presentation Award.

Weight balancing on boundaries and skeletons by Akitoshi Kawamura (University of Tokyo), et al. (See Appendix for the other authors.)

The award was given him at the Summer LA Symposium held in July 2014 (Figure 1).



Figure 1: Dr. Kawamura (right) and me (left) with the certificate of commendation (July, 2014).

We established another presentation award, named “EATCS/LA Student Presentation Award” to encourage students. **Ms. Manami Shigeta** (Gunma University) who presented the following paper, was selected at the third EATCS/LA Student Presentation Award.

Ordered Biclique Partitions and Communication Complexity Problems by Shigeta Manami and Amano Kazuyuki (Gunma university).

The award has been given her at the last day, January 30, 2014. *Congratulations!*

This workshop is jointly organized with *LA*, Japanese association of theoretical computer scientists. Its purpose is to give a place for discussing topics on all aspects of theoretical computer science. That is, this workshop is an unrefereed meeting. All submissions are accepted for the presentation. There should be no problem of presenting these papers in refereed conferences and/or journals. We hold it twice a year (January/February, and July/August). If you have a chance, I recommend you to attend it. You can find the program of the last workshop in Appendix of this report.

Forthcoming Events in Japan

I am very happy to announce that the first ICALP outside Europe will be held in Kyoto, Japan. That will be colocated with LICS 2015. You can find more information on the conferences at <http://www.kurims.kyoto-u.ac.jp/icalp-lics2015/>.

ICALP 2015

The 42nd International Colloquium on Automata, Languages and Programming (ICALP 2015) will be held in Kyoto, Japan, during the week 6-10 July, 2015. The conference will be held at Grand Prince Hotel Kyoto (<http://www.princehotels.com/en/kyoto/>), and workshops will be held at Kyoto University (<http://www.kyoto-u.ac.jp/en>). Important dates will be announced pretty soon!

LICS 2015

The 30th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS 2015) will be held in Kyoto, Japan, July 6–10, 2015. Important dates are:

- Title and Short Abstracts: January 12, 2015.
- Extended Abstracts: January 19, 2015.
- Author Feedback/Rebuttal Period: March 12–16, 2015.
- Notification: March 30, 2015.
- Final version: April 27, 2015.

The details can be found at <http://lics.rwth-aachen.de/lics15/>.

New Organization of EATCS Japan Chapter

On January 29th, we have updated the EATCS Japan Chapter as follows:

Chair: Osamu Watanabe (Tokyo Inst. of Tech.)

Vice Chair: Ryuhei Uehara (JAIST)

Secretary: Takehiro Ito (Tohoku University)

Appendix:

Program of EATCS-JP/LA workshop on TCS (January 28th to 30th, 2014)

In the following program, each [S*x*] means student talk, while [*x*] means ordinary talk (student talks are shorter). Each “**” indicates a student speaker, and “*” indicates just a speaker. Talks are given in the following order:

- [S1] Linear Rank-Width Bounds for BDD of Quantum Graph States
*Hidefumi Hiraishi** (The University of Tokyo), Hiroshi Imai (The University of Tokyo), Yoichi Iwata (The University of Tokyo), and Lin Bingkai (The University of Tokyo)*
- [S2] On the possibility of quantum network coding for multiple butterfly network
*Makoto Kadono** (Saitama University)*
- [S3] Concurrent Composability of Classical Cryptographic Two-party Protocols against Quantum Adversary
*Fujinaka Tatsuo** (Saitama University)*
- [1] An analysis of independence of permutation families by Fourier Transform
*Takashi Suzuki** (Nagaoka University of Technology), Nguyen Thai Phat (Nagaoka University of Technology) and Yoshinori Takei (Nagaoka University of Technology)*
- [2] An Analysis of Ghost Leg by Fourier Transform
*Shogo NAKAMURA** (Nagaoka University of Technology), and Yoshinori TAKEI (Nagaoka University of Technology)*
- [3] Simulation of Arthur-Merlin Games by Competing Provers
Akinori Kawachi (Tokyo Institute of Technology), Kazuhisa Seto (Seikei University), and Suguru Tamaki (Kyoto University)*
- [4] Private Set Intersection with Delegation
*Haruna Higo** (Tokyo Institute of Technology), Toshiyuki Isshiki (NEC), and Keisuke Tanaka (Tokyo Institute of Technology)*
- [5] Complete Context Hiding Homomorphic Signature from Standard Assumption
*Yoshihiro Koseki** (Tokyo Institute of Technology), Ryo Nishimaki (NTT Secure Platform Laboratories), Eiichiro Fujisaki (NTT Secure Platform Laboratories), and Keisuke Tanaka (Tokyo Institute of Technology)*
- [6] Propositional logic and cellular automata
Shuichi Inokuchi (Kyushu University), Toshikazu Ishida (Kyushu Sangyo University), Yasuo Kawahara*
- [7] A note on picture insertion systems
Kaoru Fujioka (Fukuoka Women's University)*
- [S4] Parity Hamiltonian Cycle Problem
*Hiroshi Nishiyama** (Kyushu University), Yukiko Yamauchi (Kyushu University), Shuji Kijima (Kyushu University), and Masafumi Yamashita (Kyushu University)*
- [S5] On the structure of the sets of end vertices of popular matchings
*Mizuki Hirakawa** (Kyushu University), Yukiko Yamauchi (Kyushu University), Shuji Kijima (Kyushu University), and Masafumi Yamashita (Kyushu University)*
- [S6] LP relaxation for spanning tree congestion problem
*Kohei Kubo** (Kyushu University), Yukiko Yamauchi (Kyushu University), Shuji Kijima (Kyushu University), and Masafumi Yamashita (Kyushu University)*
- [S7] Reliable transmission algorithm for mobile Byzantine agreement algorithm
*Toru Sasaki** (Kyushu University), Yukiko Yamauchi (Kyushu University), Shuji Kijima (Kyushu University), and Masafumi Yamashita (Kyushu University)*
- [8] Marriage theorem for infinite graphs and reverse mathematics
*Makoto Fujiwara** (Tohoku university)*
- [9] Ordered Biclique Partitions and Communication Complexity Problems
*Manami Shigeta** (Gunma university) and Kazuyuki Amano (Gunma university)*

- [10] Server Supply-Assignment Problem on Graphs under Given Routing Table
*Hajime Oohino** (Tohoku University), Takehiro Ito (Tohoku University), Akira Suzuki (Tohoku University), Kei Uchizawa (Yamagata University), and Xiao Zhou (Tohoku University)*
- [11] Weight balancing on boundaries and skeletons
Akitoshi Kawamura (University of Tokyo), Matias Korman (National Institute of Informatics), Yuan Tang (Fudan University), Otfried Cheong (Korea Advanced Institute of Science and Technology), Jean Lou De Carufel (Carleton University), Takeshi Tokuyama (Tohoku University), Michael Dobbins (Pohang University of Science and Technology), Sander Verdonschot (Carleton University), János Pach (Swiss Federal Institute of Technology in Lausanne and Alfréd Rényi Institute of Mathematics), Luis Barba (Université libre de Bruxelles and Carleton University), Rudolf Fleischer (Fudan University and German University of Technology in Oman), Tianhao Wang (Fudan University), and Yoshio Okamoto (University of Electro-Communications)*
- [12] On Compact On-Line Lempel-Ziv Factorization
Junichi Yamamoto (Kyushu University), Tomohiro I (Kyushu University), Hideo Bannai (Kyushu University), Shunsuke Inenaga (Kyushu University), and Masayuki Takeda (Kyushu University)*
- [13] A Dynamic Compact Index
*Yoshiaki Matsuoka** (Kyushu University), Tomohiro I (Kyushu University), Masayuki Takeda (Kyushu University), Hideo Bannai (Kyushu University), and Shunsuke Inenaga (Kyushu University)*
- [14] A fast text search method with large-scale regular expression patterns
Ryutaro Kurai (ERATO MINATO Discrete Structure Manipulation System Project), Shinobu Nagayama (Hiroshima City University) and Shin-ichi Minato (ERATO MINATO Discrete Structure Manipulation System Project)*
- [15] Enumeration of Polyominoes for p4 Tiling Revisited
Takashi Horiyama (Saitama University) and Shogo Yamane (Saitama University)*
- [16] Isomorphism on subgraph-closed graph classes: a complexity dichotomy and intermediate graph classes
Yota Otachi (JAIST) and Pascal Schweitzer (ETH Zurich, EPDI)*
- [17] Tangle and maximal ideal
Koichi Yamazaki (Gunma Univ.)*
- [18] The Fault-Tolerant Facility Location Problem with Submodular Penalties
Naoyuki Kamiyama (Kyushu University)*
- [19] The Multiple Knapsack Problem with Assignment Restrictions and Capacity Constraints
Naoyuki Morimoto (Enegate Co.), Shuichi Miyazaki (Kyoto University), and Yasuo Okabe (Kyoto University)*
- [20] Simultaneous solution to the minimum spanning tree problem with label selection and the membership problem for a spanning tree automaton and its application to mathematical OCR
Akio Fujiyoshi (Ibaraki University)*
- [21] A polynomial time learning algorithm for real-time deterministic restricted one-counter transducers from queries and counterexamples

- Mitsuo Wakatsuki** (The University of Electro-Communications), *Etsuji Tomita* (The University of Electro-Communications), and *Tetsuro Nishino* (The University of Electro-Communications)
- [22] Factorizing and covering strings with palindromes
*Shiho Sugimoto*** (Kyushu University), *Tomohiro I* (Kyushu University), *Shunsuke Inenaga* (Kyushu University), *Hideo Bannai* (Kyushu University), and *Masayuki Takeda* (Kyushu University)
- [23] Lyndon Factorization Algorithm for LZ78 Compressed Text
Tomohiro I (Kyushu University), *Yuto Nakashima*** (Kyushu University), *Shunsuke Inenaga* (Kyushu University), *Hideo Bannai* (Kyushu University), and *Masayuki Takeda* (Kyushu University)
- [24] Suffix arrays and run length encoding
*Yuya Tamakoshi*** (Kyushu University), *Keisuke Goto* (Kyushu University), *Hideo Bannai* (Kyushu University), *Shunsuke Inenaga* (Kyushu University), and *Masayuki Takeda* (Kyushu University)
- [S8] A linear time algorithm for the hamiltonian cycle problem on distance-hereditary graphs
*Takanori Jimbo*** (Graduate School of Information Science Nagoya University) and *Tomio Hirata* (Graduate School of Information Science Nagoya University)
- [S9] Monte Carlo Strategy with positional evaluation value for the N-person imperfect information game
*Masashi Urushibata*** (Chuo University)
- [S10] Monte Carlo Methods for a Board Game – Efficient Playout Method on Dual Graph –
*Masatoshi Jinno*** (Chuo University)

THE JAPANESE CHAPTER

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