

REPORT FROM EATCS JAPAN CHAPTER

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EATCS-JP/LA Workshop on TCS and Presentation Awards

The 17th *EATCS/LA Workshop on Theoretical Computer Science* was held at Research Institute of Mathematical Sciences, Kyoto University, February 4th to 6th, 2019. (The details can also be found, although this website is written in Japanese, at

<http://www.nishino-lab.jp/la2018/winter.php>.)

Every year, we choose and celebrate the best presenter and the best student presenter. This year, we celebrated the following presentation as the 16th EATCS/LA Presentation Award:

“Energy and Depth of Threshold Circuits Computing Parity Function”, **Kei Uchizawa** (Yamagata University)

We also established another presentation award, named “EATCS/LA Student Presentation Award” to encourage students. **Mitsuru Funakoshi** (Kyushu University) who presented the following paper was selected as the 8th EATCS/LA Student Presentation Award:

“Enumerating Maximal Palindromes of a Trie”, **Mitsuru Funakoshi**, Yuto Nakashima, Shunsuke Inenaga, Hideo Bannai, and Masayuki Takeda (Kyushu University)

The awards were recognized publicly on the last day, February 6th, 2019.

Congratulations!

This workshop is jointly organized by *LA symposium*, Japanese association of theoretical computer scientists. Its purpose is to give a place to discuss topics on all aspects of theoretical computer science. This workshop is an unrefereed meeting. All submissions are accepted for the presentation. There should be no problem of presenting these papers at refereed conferences and/or journals. This meeting is unofficial, familiar, and widely open for everyone who is interested in theoretical computer science. It is held twice a year (January/February and July/August). If you have a chance, I recommend that you attend it. Check the website <http://www.ecei.tohoku.ac.jp/alg/EATCS-J/> for further details. The list of the presentations is as below; you can see the activity of the Japanese society of theoretical computer science.

Program of EATCS-JP/LA workshop on TCS (February 4–6, 2019)

In the following program, “*” indicates ordinary speakers, while “**” indicates student speakers. The number [Sxx] means it is in student session, namely, it is shorter talk than ordinary one.

- [s1] Towards the Algorithmic Molecular Self-Assembly of Fractals by Cotranscriptional Folding
**Yusei Masuda, Yuki Ubukata (*The University of Electro-Communications*)
- [s2] On Approximation Algorithms for k-Anonymity
**Kotoko Yamada, Takeshi Ohzu, Masahiro Ishii, Keisuke Tanaka (*Tokyo Institute of Technology*)
- [s3] On Complexity of k-Anonymity
**Takeshi Ohzu, Kotoko Yamada, Masahiro Ishii, Keisuke Tanaka (*Tokyo Institute of Technology*)
- [s4] Boosting with Frank-Wolfe updates
**Ryotaro Mitsuboshi (*Kyushu University*), Kohei Hatano (*Kyushu University / RIKEN AIP*), Eiji Takimoto (*Kyushu University*)
- [s5] Deciding the winning player in two-player TANHINMIN and its variant
**Hironori Kiya (*Kyushu university*), Hirotaka Ono (*Nagoya university*)
- [s6] Generalized partition problem on population protocol model
**Tomoki Umino, Naoki Kitamura, Taisuke Izumi (*Nagoya Institute of Technology*)
- [s7] On Depth Two Majority Circuits for Computing Majority Functions
**Masafumi Yoshida, Kazuyuki Amano (*Gunma University*)
- [1] A maximal common subsequence algorithm
*Yoshifumi Sakai (*Tohoku University*)
- [2] Longest Lyndon Word After One Edit Operation
**Yuuki Urabe, Yuto Nakashima, Shunsuke Inenaga, Hideo Bannai, Masayuki Takeda (*Kyushu University*)
- [3] Shortest Unique Palindromic Substring Problem
**Hiroe Inoue, Takuya Mieno, Yuto Nakashima, Shunsuke Inenaga, Hideo Bannai, Masayuki Takeda (*Kyushu University*)
- [4] Longest Lyndon Word in Streams
*Yuto Nakashima (*Kyushu University*)
- [5] Learning of Primitive Formal Systems Defining Labeled Ordered Tree Languages via Queries
*Tomoyuki Uchida (*Hiroshima City University*), Satoshi Matsumoto (*Tokai University*), Takayoshi Shoudai (*Kyushu International University*), Yusuke Suzuki, Tetsuhiro Miyahara (*Hiroshima City University*)
- [6] A study on relation between tangle and ultrafilter
**Takaaki Fujita, Koichi Yamazaki (*Gunma Univ.*)
- [7] Proving Turing Universality of Oritatami Co-transcriptional Folding
*Shinnosuke Seki (*University of Electro-Communications, Tokyo*)
- [8] An Enumeration Algorithm for Dominating Set in k-degenerate Graphs
**Kazuhiro Kurita (*Hokkaido University*), Kunihiro Wasa, Takeaki Uno (*National Institute of Informatics*), Hiroki Arimura (*Hokkaido University*)
- [9] Isomorphism Elimination by Zero-Suppressed Binary Decision Diagrams

- *Takashi Horiyama, Masahiro Miyasaka, Riku Sasaki (Saitama University)*
- [10] How to find a dense subgraph
**Hiroki Yanagisawa (IBM Research - Tokyo), Satoshi Hara (Osaka University)*
- [s8] Model Checking of Embedded Systems Using RTCTL
***Wu Yajun, Satoshi Yamane (Kanazawa University)*
- [s9] Longest Palindromic Substring After One Edit Operation
***Mitsuru Funakoshi, Yuto Nakashima, Shunsuke Inenaga, Hideo Bannai, Masayuki Takeda (Kyushu University)*
- [s10] Graph theory from the view point of a beads artist
***Yuta Fujishige (Kyushu University)*
- [s11] On the minimum block transfer problem
***Yagita Tsuyoshi (Kyushu Institute of Technology), Asahiro Yuichi (Kyushu Sangyo University), Miyano Eiji (Kyushu Institute of Technology)*
- [s12] The rotation poset for stable allocations
***Koki Yamamoto, Yukiko Yamauchi, Shuji Kijima, Masafumi Yamashita (Kyushu University)*
- [s13] Inferring a minimum graph of bounded degree 2 from a walk
***Shintaro Narisada, Ryo Yoshinaka, Ayumi Shinohara (Tohoku University)*
- [11] The Computability by an Oblivious Autonomous Mobile Robot with Limited Visibility
***Akihiro Monde, Yukiko Yamauchi, Shuji Kijima, Masafumi Yamashita (Kyushu University)*
- [12] Herugolf is NP-complete
**Chuzo Iwamoto, Masato Haruishi (Hiroshima University)*
- [13] Space-efficient algorithms for longest increasing subsequence
*Masashi Kiyomi (Yokohama City University), Hirotaka Ono (Nagoya University), *Yota Otachi (Kumamoto University), Pascal Schweitzer (TU Kaiserslautern), Jun Tarui (The University of Electro-Communications)*
- [14] Nonbipartite Dulmage-Mendelsohn Decomposition for Berge Duality
**Nanao Kita (National Institute of Informatics)*
- [15] The Stable Marriage Problem with Multiple Preference Lists
*Kazuya Okamoto, *Shuichi Miyazaki (Kyoto University)*
- [16] Colored Token Swapping Problem on Graphs
***Hayato Konno, Akira Suzuki (Tohoku University), Katsuhisa Yamanaka (Iwate University), Takehiro Ito, Xiao Zhou (Tohoku University)*
- [17] The number of distinct segment locations in beta-expansion with rational beta.
***Tomita Yusaku, Kijima Shuji (Kyushu University)*
- [18] Trinagulation with Many/Few Triangles
**Hiroshi Eto, Tesshu Hanaka (Kyushu University), Eiji Miyano, Ayumi Nishijima (Kyushu Institute of Technology), Hirotaka Ono (Nagoya University), Yota Otachi (Kumamoto University), Toshiki Saitoh (Kyushu Institute of Technology), Ryuhei Uehara (Japan Advanced Institute of Science and Technology), Tom C. van der Zanden (Utrecht University)*
- [19] An FPTAS for the volume of the convex hull of an n dimensional crosspolytope and two points
**Ei Ando (Sojo University), Christian Engels (Indian Institute of Technology Bombay)*

Past/Forthcoming Events

WALCOM 2019

The 13th International Conference and Workshops on Algorithms and Computation (WALCOM 2019) was held in Guwahati, India, from February 27 to March 2, 2019 with some tutorials on February 26. This conference has been established to encourage the researchers of theoretical computer science in Asia, especially, India and Bangladesh. Nowadays, while there are many participants from a wide range of Asia, not so many from Europe so far. The organizers give a big welcome to many attendees from Europe. See <http://www.iitg.ac.in/walcom2019/> for more information on WALCOM 2019.

The next WALCOM will be held in Singapore from March 31 to April 2, 2020 with some tutorials by invited speakers to WALCOM on a special topic related combinatorial methods for strings and graphs on March 30. See <http://www.comp.nus.edu.sg/~walcom20/> for more information on WALCOM 2020.

New Organization of Japan Chapter

Professor Osamu Watanabe had been a chair of the Japan chapter of EATCS for long years. Now he has stepped down, and I, Ryuhei Uehara, has been promoted from vice chair. Professor Takehiro Ito has been promoted to the vice chair from secretary. Now, Professor Yukiko Yamauchi has joined as a secretary. I thank Osamu for his kind support all of us, and welcome Yukiko to our team!

EATCS JAPAN CHAPTER

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