

REPORT FROM EATCS JAPAN CHAPTER

Yuto Nakashima (Kyushu University)

EATCS-JP/LA Workshop on TCS and Presentation Awards

The 24th *EATCS-JP/LA Workshop on Theoretical Computer Science* was held at Research Institute of Mathematical Sciences, Kyoto University, January 26th to 28th, 2026. (The details can also be found, although this website is written in Japanese, at <https://la-symposium.github.io/2025/winter.html>.)

Every year, we choose the best presenter and the best student presenter. This year, we celebrated the following presentation as the 24th LA/EATCS-Japan Presentation Award:

“Courcelle’s Theorem for Lipschitz Continuity”

presented by Tatsuya Gima (Hokkaido University), **Soh Kumabe** (CyberAgent), and Yuichi Yoshida (National Institute of Informatics).

We celebrated the following presentation as the 15th LA/EATCS-Japan Student Presentation Award:

“Faster Approximate Linear Matroid Intersection”

presented by **Tatsuya Terao** (Kyoto University).

The awards were recognized publicly on the last day, January 28th, 2026.

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 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.dais.is.tohoku.ac.jp/eatcs_japan/ 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 the 24th EATCS-JP/LA workshop on TCS

In the following program, “*” indicates speakers. The number [xxS] means it is given by a student speaker.

- [1S] An Improved Approximation Algorithm for Maximum 2+-Path Packing
*Riki Uchida, Zhi-Zhong Chen, Ryo Yaguchi (Tokyo Denki University), Lusheng Wang (City University of Hong Kong)
- [2S] One-Sided Local Crossing Minimization
Grzegorz Gutowski (Jagiellonian University), Maarten Löffler (Utrecht University), *Yuto Okada (Nagoya University), Alexander Wolff (Universität Würzburg)
- [3] Evaluating Monadic Second-Order Queries with Optimal-Set Quantifiers on Bounded Clique-Width
*Tatsuya Gima (Hokkaido University)
- [4] The PPP-Completeness of the Ward-Sabó Theorem
*Takashi Ishizuka (Technical Institute of Technology, Kochi College)
- [5] Computing Parameterized Squares and Related Repetitions
*Yuto Nakashima (Kyushu University), Jakub Radoszewski, Tomasz Waleń (University of Warsaw)
- [6S] Compression Sensitivity of LZW
*Mashyu Mikami, Dominik Köppl (University of Yamanashi)
- [7S] Correspondence between Subsumption and Language Inclusion Relations for Starlike Term Tree Patterns
*Yuta Horii, Yusuke Suzuki, Tomoyuki Uchida (Hiroshima City University), Takayoshi Shoudai (Fukuoka Institute of Technology), Satoshi Matsumoto (Tokai University), Tetsuhiro Miyahara (Hiroshima City University)
- [8S] Improvement Hitting Sets on Range Avoidance for NC_2^0 circuits
*Masato Baba, Kei Uchizawa (Yamagata University)
- [9] Sublinear-Time Collision Detection with a Polynomial Number of States in Population Protocols
Takumi Araya, *Yuichi Sudo (Hosei University)
- [10S] Complexity of Computing Equilibrium of Generalized Threshold Game
*Sota Kawase, Nobutaka Shimizu (Institute of Science Tokyo)
- [11S] Minimization of a Jump M-Convex Function with L1-Distance Constraint and Its Application to Matching Problem
*Taiyo Jitsumoto, Akiyoshi Shioura (Institute of Science Tokyo)
- [12S] Reconfiguration of Graph Colorings Under Recolorability Constraints
*Yuta Ito, Rin Saito, Takehiro Ito (Tohoku University)
- [13S] Isomorphism between the Reconfiguration Graph of Independent Sets under Token Jumping and the Underlying Graph
*Naoki Shimada (Shinshu University), Masaya Sano (INTAGE TECHNO-SPHERE), Hiroshi Fujiwara, Katsuhisa Ouchi (Shinshu University)
- [14S] On the Biclique Reconfiguration Problem
Yota Otachi, *Emi Toyoda (Nagoya University)
- [15S] On Connectedness between Graph Colorings on Interval Graphs
*Asato Tsuchiya, Toshinori Yamada (Saitama University)
- [16S] Treewidth of $n \times n$ Toroidal Grids

- Tatsuya Gima (Hokkaido University), *Hiraku Morimoto, Yuto Okada, Yota Otachi (Nagoya University)*
- [17S] Towards a Conjecture on Deadlock in Sports Scheduling
**Keita Ishijima, Hiroshi Fujiwara (Shinshu University)*
- [18S] A Novel Approximation Algorithm for the Break Minimization Problem
**Koichi Fujii, Tomomi Matsui (Institute of Science Tokyo)*
- [19S] Quantum Annealing for Solving the Compatible with the Separation Prohibited and Its Application to Sukoro
**Chiho Fukunaga, Seiya Okubo (University of Shizuoka)*
- [20S] On the Group Structure of Planar Rubik's Cube
**Ryuki Kondo, Koichi Yamazaki (Tokyo Denki University)*
- [21S] Card-Based Zero-Knowledge Proof for Nuritwin
**Kosuke Ohara, Chuzo Iwamoto (Hiroshima University)*
- [22S] Hitting Geodesic Intervals in Structurally Restricted Graphs
*Tatsuya Gima, Yasuaki Kobayashi (Hokkaido University), Yuto Okada, Yota Otachi, *Hayato Takaike (Nagoya University)*
- [23S] The (Parameterized) Complexity of Minimizing the Number of Colored Vertices in 2-Clique-Coloring
**Shunsuke Hamada, Yuto Okada, Hirotaka Ono (Nagoya University)*
- [24] Max-Min and 1-Bounded Space Algorithms for the Bin Packing Problem
**Hiroshi Fujiwara (Shinshu University), Rina Atsumi (Mitsubishi Electric Digital Innovation Corporation), Hiroaki Yamamoto (Shinshu University)*
- [25S] Improved Approximation Guarantees for the Bin Packing Algorithm MM
**Hiromu Hashimoto, Hiroshi Fujiwara, Katsuhisa Ouchi (Shinshu University)*
- [26S] An Approximation Algorithm for Average Network Flow Maximization Problems
**Yutaro Fuse, Nobutaka Shimizu, Akiyoshi Shioura (Institute of Science Tokyo)*
- [27] An All-LCS Graph for Run-Length Encoded Strings
**Yoshifumi Sakai (Tohoku University)*
- [28] Solving the Sparse Matrix Problem for Logarithmic Widths
**Dominik Köppl (University of Yamanashi), Vincent Limouzy (University Clermont Auvergne), Andrea Marino (University of Florence), Jannik Olblich (University of Ulm), Giulia Punzi (University of Pisa), Takeaki Uno (National Institute of Informatics)*
- [29S] Improved Data Structures for Uniform Sampling from Subset Families
**Sakuya Kaneko, Daiki Shigematu (Kyushu University), Kohei Hatano (Kyushu University/RIKEN AIP), Eiji Takimoto (Kyushu University)*
- [30S] Fixed-Parameter Algorithm for Pre-Assignment Uniquifying Optimal Solution Feedback Vertex Set
**Raimu Nagakura, Hirotaka Ono (Nagoya University), Toshimasa Ishii (Hokkaido University)*
- [31S] On Orientable Domination Number
*Hans L. Bodlaender (Utrecht University), Tatsuya Gima, Yasuaki Kobayashi (Hokkaido University), *Futaba Mizuno, Yuto Okada, Yota Otachi (Nagoya University)*
- [32S] Enumeration Algorithms for Maximal Matchings in Chain Graphs
**Kanata Maruyama, Naoto Kaneko, Hiroshi Fujiwara (Shinshu University)*
- [33] Courcelle's Theorem for Lipschitz Continuity

- Tatsuya Gima (Hokkaido University), *Soh Kumabe (CyberAgent), Yuichi Yoshida (National Institute of Informatics)*
[34S] On the (Meta-)Complexity of Locally Dense Lattice
*Shuichi Hirahara (National Institute of Informatics), *Kazuki Ogitsuka (The Graduate University for Advanced Studies)*
[35S] Faster Approximate Linear Matroid Intersection
**Tatsuya Terao (Kyoto University)*

Past/Forthcoming Events

WALCOM 2026 & 2027

International Conference and Workshops on Algorithms and Computation (WALCOM) conference has been established to encourage the researchers of theoretical computer science in Asia, especially, India and Bangladesh. Nowadays, there are many participants from all around the world. The 20th WALCOM (WALCOM 2026) was held in Perugia, Italy, from March 4th to 6th, 2026. This was the first WALCOM in Europe. See <https://mozart.diei.unipg.it/walcom2026/> for more information on WALCOM 2026. The next WALCOM will be held in Taipei, Taiwan.

AAAC 2026

Annual Meeting of the Asian Association for Algorithms and Computation (AAAC) aims at promoting collaborations in theoretical computer science in Asia (but not restricted in the region). The 17th AAAC was held in Qingdao, China, on May 23rd and 24th, 2026. See <https://math.ouc.edu.cn/aaac2026/> for more information on AAAC 2026.

WAAC 2026

The 26th Korea–Japan Joint Workshop on Algorithms and Computation (WAAC 2026) will be held in Busan, Korea, on August 19th and 20th, 2026. The aim of this workshop is to provide a forum for researchers working on algorithms and the theory of computation, to promote the exchange of recent results, to foster new collaborations among researchers. Historically, the workshop has established for the purpose of collaboration of researchers of Korea and Japan; however, participation from any country is welcome. See <https://algo.postech.ac.kr/workshops/waac26/> for more information of WAAC 2026.

ISAAC 2026

International Symposium on Algorithms and Computation (ISAAC) is intended to provide a forum for researchers working on algorithms and computation. The 37th edition of this symposium will be held in Hangzhou, China, from December 6th to 9th, 2026. See <https://www.algo-door.com/isaac2026/> for more information on ISAAC 2026.

Submission Deadline: June 26, 2026 (Anywhere on Earth)

Notification of Acceptance: Early September, 2026

■

EATCS JAPAN CHAPTER

CHAIR: RYUHEI UEHARA
VICE CHAIR: TAKEHIRO ITO
SECRETARY: YUTO NAKASHIMA
EMAIL: EATCS-JP@GRP.TOHOKU.AC.JP
URL: [HTTP://WWW.DAIS.IS.TOHOKU.AC.JP/EATCS_JAPAN/](http://www.dais.is.tohoku.ac.jp/eatcs_japan/)

■