

WAAC 2013 Program

Kyonggi University, Suwon, Korea, July 12-13, 2013

Friday, July 12

08:40 ~ 09:20

Registration

09:20 ~ 10:40 Session I

09:20 ~ 09:40 *Applications of Succinct Dynamic Compact Tries to Some String Problems*
Takuya Takagi, Takashi Uemura, Shunsuke Inenaga, Kunihiko Sadakane
and Hiroki Arimura

09:40 ~ 10:00 *Order Preserving Matching*
Jinil Kim, Peter Eades, Rudolf Fleischer, Seok-Hee Hong, Costas S.
Iliopoulos, Kunsoo Park, Simon J. Puglisi and Takeshi Tokuyama

10:00 ~ 10:20 *State Complexity of Basic Operations on Non-Returning
Regular Languages*
Hae-Sung Eom, Yo-Sub Han and Jiraskova Galina

10:20 ~ 10:40 *Alignment with Non-Overlapping Involution on Two strings*
Da-Jung Cho, Yo-Sub Han and Hwee Kim

10:40 ~ 11:00

Coffee Break

11:00 ~ 12:00 Session II

11:00 ~ 11:20 *Parity Longest Cycle Problem*
Hiroshi Nishiyama, Yukiko Yamauchi, Shuji Kijima and
Masafumi Yamashita

11:20 ~ 11:40 *An Improved Linear-Time Algorithm for Finding Small L-VertexCovers*
Liang Zhao and Hiroshi Kadowaki

11:40 ~ 12:00 *An $O(n \log n)$ Algorithm for the Sink Location Problem in Dynamic Tree
Networks with the Uniform Capacity*
Yuya Higashikawa, Mordecai J. Golin and Naoki Kato

12:00 ~ 13:40

Lunch

13:40 ~ 14:40 *Invited Talk: Shape Matching*

Hee-Kap Ahn

14:40 ~ 15:00

Coffee Break

15:00 ~ 16:20 Session III

15:00 ~ 15:20 *Finding Items Associated with Varied Members in a Pairwise Data Stream*
Heejae Yim, Norikazu Takahashi, Yukiko Yamauchi, Shuji Kijima and
Masafumi Yamashita

15:20 ~ 15:40 *Nash Equilibria in Combinatorial Auctions with Item Biddings
by n Bidders*

Hiroyuki Umeda and Takao Asano

15:40 ~ 16:00 *High-Speed Parallel Implementations of the Rainbow Method in a
Heterogeneous System*

Jung Woo Kim, Jungjoo Seo, Jin Hong, Kunsoo Park and Sung-Ryul Kim

16:00 ~ 16:20 *Correspondence Finder using Classified Distance Distribution
for Efficient Shape Retrieval*

Jinhee Chun, Natsuda Kaothanthong and Takeshi Tokuyama

16:20 ~ 16:40

Coffee Break

16:40 ~ 17:40 Session IV

16:40 ~ 17:00 *Maximum Diameter-Bounded Subgraphs in Intersection Graphs*
Yuichi Asahiro, Yuya Doi, Eiji Miyano and Hiroataka Shimizu

17:00 ~ 17:20 *An Enumeration Problem of Connected and Acyclic Sub-hypergraphs
in Hypergraphs*
Kunihiro Wasa, Takeaki Uno, Kouichi Hirata and Hiroki Arimura

17:20 ~ 17:40 *Computation of Eigenvalues of Cayley Graphs and Applications*
Xavier Dahan

Saturday, July 13

09:20 ~ 10:20 Session V

09:20 ~ 09:40 *Experimental Results on Succinct de Bruijn Graphs*
Alexander Bowe, Taku Onodera, Kunihiko Sadakane and Tetsuo Shibuya

09:40 ~ 10:00 *On Approximation of Normalized Compression Distance by Tree Metric
for Clustering*
Kohei Kubo, Yukiko Yamauchi, Shuji Kijima and Masafumi Yamashita

10:00 ~ 10:20 *Simple Variable-Length Encodings for GPS Trajectory Compression*
Hirohito Sasakawa and Hiroki Arimura

10:20 ~ 10:40

Coffee Break

10:40 ~ 12:00 Session VI

10:40 ~ 11:00 *The Number of Holes in the Union of Translates of a Convex Set
in Three Dimension*
Michael Gene Dobbins, Boris Aronov, Otfried Cheong and Xavier Goaoc

11:00 ~ 11:20 *Geometric Permutations of Non-overlapping Unit Spheres in \mathbb{R}^d*
Otfried Cheong, Xavier Goaoc, Jae-Soon Ha and Jungwoo Yang

11:20 ~ 11:40 *Bundling Three Convex Polygons to Minimize Area or Perimeter*
Hee-Kap Ahn, Helmut Alt, Sang Won Bae and Dongwoo Park

11:40 ~ 12:00 *Computing the L_1 Geodesic Diameter and Center of a Simple Polygon
in Linear Time*
Sang Won Bae, Matias Korman, Yoshio Okamoto and Haitao Wang