

JCDCG³ 2019 Program (ver. 4)

9/06 (Fri)	
9:00	Registration Desk Open
10:20–10:30	Opening Address
10:30–11:20	Session 1: Invited Talk 1: Erik Demaine. New Results in Computational Origami (Chair: Tomohiro Tachi)
11:20–11:35	Break
11:35–12:25	Session 2: Invited Talk 2: Takao Asano. Geometry, Graphs, Games and Optimization (Chair: Hiro Ito)
12:25–14:00	Lunch Break
14:00–15:20	Session 3A,B: Contributed Talks (20 min x 2 parallel x 4)
	Room A (Chair: Aaron Williams)
	Hong-Bin Chen, Hung-Lin Fu and Jun-Yi Guo. Is every prime sum graph Hamiltonian?
	Edilberto Jr. Cuaresma, Reginaldo Marcelo, Agnes Garciano, Yoshimi Egawa, Keiko Kotani and Shunsuke Nakamura. Forbidden triples on a finite set of 4-connected graphs
	Shiela Mae Pacardo and Helen Rara. Connected Interior Domination in Graphs and Some Realization Problems
	Neil Mame and Realiza Mame. Some generator Subgraphs of the Square of a Cycle
Room B (Chair: Chie Nara)	
Long-Wei Chou, Shen-Guan Shih and Chih-Hung Yen. The Transformation between Polycubes and the Configurations of SL Blocks	
Shen-Guan Shih. A grammatical approach to the analysis and operations of semi-interlocking constructions of SL blocks	
Takashi Horiyama, Tomohiro Tachi and Asao Tokolo. Another Representation of Rhombus Tilings	
Jose Balanza-Martinez, David Caballero, Angel Gantu, Timothy Gomez, Austin Luchsinger, Robert Schweller and Tim Wylie. Relocation with Uniform External Control in Limited Directions	
15:20–15:50	Coffee Break
15:50–17:30	Session 4A,B: Contributed Talks (20 min x 2 parallel x 5)
	Room A (Chair: Atsuki Nagao)
	Shinya Fujita. Optimal proper connection of graphs
	Jose Enrico Tiongson and Jude Buot. Graph Compression Through Bridge Coalescence and Ear Decomposition
	Jumpei Gohara and Akifumi Sako. Connection of Two Bread Graphs
	Asahi Takaoka. Linear-semiorders and their incomparability graphs
Room B (Chair: Takashi Horiyama)	
Koki Suetsugu and Tomoaki Abuku. Delete Nim	
Tomoaki Abuku. Vertex Nim on Cayley Graph	
Yushi Nakaya, Mariko Kashiwagi, Michitada Hayashi, Sintarou Kaimoto, Ryoji Takano, Kazunari Mizuta and Nazuki Terakawa. Chocolate Games With an Upper Bound for the Number of Columns and Rows That Can Be Removed in a Turn	
Junyi Guo, Chao Yang and Hsiang-Chun Hsu. One-question-card Version of the Hamming Code Mathemagic	
Yuki Irie. Representations of Generalized Symmetric Groups and Sums of Welter's Game	
Canceled: Suhadi Wido Saputro. On open neighborhood locating-dominating set of Mycielski graphs	

9/07 (Sat)	
09:00–09:50	Session 5: Invited Talk 3: Janos Pach. Many Pairwise Crossing Segments (Chair: Jin Akiyama)
09:50–10:00	Break
10:00–10:50	Session 6: Invited Talk 4: Geza Toth. Dense point sets with many halving lines (Chair: Toshinori Sakai)
10:50–11:05	Break
11:05–12:05	Session 7A,B: Contributed Talks (20 min x 2 parallel x 3)
	Room A (Chair: Yoshio Okamoto)
	Vadim Levit and Eugen Mandrescu. An Infinite Series of Counterexamples to the Annihilation Number Conjecture
	Mark Anthony Tolentino, Agnes Garciano, Reginaldo Marcelo and Mari-Jo Ruiz. Sigma Coloring and Edge Deletions
11:05–12:05	Kirati Sriamorn, Sira Sriswasdi and Supanut Chaidee. The Non-Existence of Convex Configuration for a Given Set of Radii in Two-Dimensional Space
	Elena Arseneva, John Iacono, Grigorios Koumoutsos, Stefan Langerman and Boris Zolotov. Sublinear Explicit incremental planar Voronoi diagrams
11:05–12:05	Hsin-Hao Lai. Applications of Combinatorial Nullstellensatz in Additive Coloring of Halin Graphs
	Jinhee Chun, Kenya Kikuchi and Takeshi Tokuyama. Consistent Digital Curved Rays
12:05–12:15	GROUP PHOTO
12:15–13:50	Lunch Break
13:50–15:10	Session 8A,B: Contributed Talks (20 min x 2 parallel x 4)
	Room A (Chair: Bernardo Abrego)
	Yoshiaki Takahashi and Akira Ito. Colored Finite Automata and de Bruijn Graphs
	Kiyoto Yoshino, Michitaka Furuya, Sho Kubota and Tetsuji Taniguchi. Minimal forbidden graphs for widely generalized line graphs
13:50–15:10	Room B (Chair: Aaron Williams)
	Sualeh Asif, Erik D. Demaine, Jayson Lynch and Mihir Singhal. Tetris is NP-hard even with $O(1)$ Columns
13:50–15:10	Joshua Ani, Sualeh Asif, Erik D. Demaine, Yevhenii Diomidov, Dylan Hendrickson, Jayson Lynch, Sarah Scheffler and Adam Suhl. PSPACE-completeness of Pulling Blocks to Reach a Goal
	Jeffrey Bosboom, Charlotte Chen, Lily Chung, Spencer Compton, Michael Coulombe, Erik D. Demaine, Martin L. Demaine, Ivan Tadeu Ferreira Antunes Filho, Dylan Hendrickson, Adam Hesterberg, Calvin Hsu, William Hu, Oliver Korten, Zhezhen Luo and Lillian Zhang. Edge Matching with Inequalities, Triangles, Unknown Shape, and Two Players
13:50–15:10	Bernardo Abrego and Silvia Fernandez. On the convex crossing number
	Takashi Horiyama, Kazuhiro Kurita, Yoshio Okamoto, Kei Uchizawa and Ryuhei Uehara. Mind The Mind with Synchronous Clocks
13:50–15:10	Bernardo Abrego, Silvia Fernandez-Merchant, Ana Paulina Figueroa, Juan Jose Montellano-Ballesteros and Eduardo Rivera-Campo. Crossings in twisted graphs
15:10–15:40	Coffee Break
15:40–17:20	Session 9A,B: Contributed Talks (20 min x 2 parallel x 5)
	Room A (Chair: Ikuro Sato and Takako Kodate)
	Robert Barish and Akira Suyama. Randomized Reductions and the Topology of Conjectured Classes of Uniquely Hamiltonian Graphs
	Jean-Claude Bermond, Takako Kodate and Joseph Yu. Gossiping with interference in radio chain networks (upper bound algorithms)
	Chao Yang. On the Algorithm and Complexity of Motion Planning Problem of a Forklift
	Michael Hoffmann, Malte Milatz, Yoshio Okamoto and Manuel Wettstein. An Improved Searching Algorithm on a Line by Four Truthful Robots and Two Byzantine Robots
15:40–17:20	Room B (Chair: Yushi Uno)
	Mikio Kano, Evangelos Kranakis, Toshinori Sakai and Jorge Urrutia. Maximum Overlaps of Folded Triangles and Quadrilaterals
15:40–17:20	Hugo A. Akitaya, Erik D. Demaine, David Eppstein, Tomohiro Tachi and Ryuhei Uehara. Minimal Ununfoldable Polyhedron
	Elena Arseneva, Stefan Langerman and Boris Zolotov. A complete list of all convex shapes made by gluing regular pentagons
15:40–17:20	Aaron Williams. Dr. Mario Puzzle Generation: Theory, Practice, and History (Famicom/NES)
	Ikuro Sato and Jin Akiyama. Gene of Wythoffian polytopes belong to D/E finite reflection groups
15:40–17:20	Yasuhiko Takenaga, Xi Yang and Asuka Inada. Anti-Slide Placements of Pentominoes
18:00–20:00	Banquet

9/08 (Sun)	
09:00–09:50	Session 10: Invited Talk 5: Stefan Langerman. The Geometry of Diamonds (Chair: John Iacono)
09:50–10:00	Break
10:00–10:50	Session 11: Invited Talk 6: Akira Saito. Spanning bipartite graphs in graphs with large degree sum (Chair: Mari-jo P. Ruiz)
10:50–11:05	Break
11:05–12:05	Session 12A,B: Contributed Talks (20 min x 2 parallel x 3)
	Room A (Chair: Ryuhei Uehara)
	Room B (Chair: Toshinori Sakai)
	Nanao Kita. Constructive Characterization of Critical Bidirected Graphs
11:05–12:05	David Flores-Peñaloza, Mikio Kano, Leonardo Martínez-Sandoval, David Orden, Javier Tejel, Csaba Toth, Jorge Urrutia and Birgit Vogtenhuber. Perfect rainbow polygons for colored point sets in the plane
	Wannasiri Wannasit and Saad El-Zanati. On cyclic decompositions of the complete graph into the generalized Petersen graph
	Evangelos Kranakis. A Phase Transition Concerning the Boundedness of Orbits on a Pointset
11:05–12:05	Kazuki Higashizono and Hiro Ito. Hyperfiniteness of hierarchical models for complex networks
	Bogdan Grechuk and Sittichoke Som-Am. A New Lower Bound for Minimal-Area Convex Cover for Closed Unit Arcs
12:05–13:40	Lunch Break
13:40–14:40	Session 13A,B: Contributed Talks (20 min x 2 parallel x 3)
	Room A (Chair: Ryuhei Uehara)
	Room B (Chair: Takashi Horiyama)
	Jin Akiyama and Kiyoko Matsunaga. How to fold a long Conway tile into either an isotetrahedron or a rectangular dihedron
13:40–14:40	Go Kato and Shin-Ichi Minato. Enumerating associative magic squares of order 7
	Yasuko Matsui, Noriyoshi Sukegawa and Ping Zhan. On the diameter of bisubmodular polyhedra
13:40–14:40	Tomoko Adachi. Critical sets of a magic cube
	Kazuki Matsubara and Chie Nara. Note on continuous flattening of multilayer pyramidal faces inscribed inside a belt
13:40–14:40	Yuichi Shirai, Hiroshi Fujiwara and Hiroaki Yamamoto. The Huffman Tree Problem with Linear Functions with Upper Bounds
	14:40–15:10
15:10–16:10	Session 14A,B: Contributed Talks (20 min x 2 parallel x 3)
	Room A (Chair: Yushi Uno)
	Room B (Chair: Yoshio Okamoto)
	Hiro Ito, Chie Nara, Izumi Shirahama and Mizuho Tomura. Strip flat folding with parallel oblique or orthogonal zigzag mountain-valley-assigned creases
15:10–16:10	François Bonnet. Analyzing Novem, a Two-Player Multi-Stage Simultaneous Game
	Yiyang Jia, Jun Mitani and Ryuhei Uehara. Efficient Algorithm for $2 \times n$ Map Folding with Diagonal Creases
15:10–16:10	Ryohei Miyadera, Mariko Kashiwagi, Masanori Fukui, Akira Murakami, Keito Tanemura, Itsuki Kitagawa, Kazuya Hiramatsu and Shintaro Kaiomto. Wythoff's Game with a Pass
	Jin-Ichi Itoh and Chie Nara. Continuous Flattening of the 2-Dimensional Skeleton of a Regular 24-cell
16:10–16:15	Closing Address