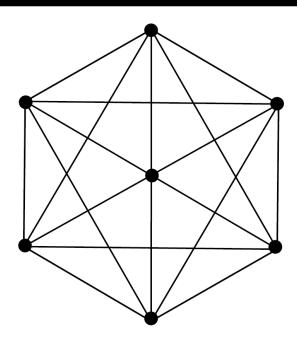
# TGT30

30<sup>th</sup> Workshop on Topological Graph Theory

Yokohama National University, Japan Hatoba Hall, October 24 to 26, 2018



Does this have a finite planar covering?

# **TGT 30**

# 30<sup>th</sup> Workshop on Topological Graph Theory

#### **Conference Venue**

Hatoba Hall, 1-1, Kaigann do-ri, Naka-ku, Yokohama, Japan 231-0002

#### **Invited Speaker**

Marston Conder (The University of Auckland, New Zealand)
Gašper Fijavž (University of Ljubljana, Slovenia)
Ken-ichi Kawarabayashi (National Institute of Informatics, Japan)
Roman Nedela (University of West Bohemia, Czech Republic)
Hehui Wu (Fudan University, China)
Xuding Zhu (Zhejiang Normal University, China)

#### **Organizers**

Seiya Negami (Yokohama National University)
Atsuhiro Nakamoto (Yokohama National University)
Kenta Ozeki (Yokohama National University)
Naoki Matsumoto (Seikei University)
Gen Kawatani (Tokyo University of Science)

#### Sponsored by

Faculty of Environment and Information Sciences, Yokohama National University Yokohama Convention & Visitors Bureau

# DAY 1 – October 24 (Wed.)

9:15	Registration
9:45	Opening remarks
9:50 -	10:10 Kenta Ozeki (Yokohama National University)  The Hamiltonicity of line graphs of 3-hypergraphs
10:10 -	10:30 Kengo Enami (Yokohama National University)  Inequivalent embeddings of 2-regular diplanar digraphs
10:30 -	10:50 Gen Kawatani (Tokyo University of Science)  Clockwise labeling of embedded regular graphs
10:50 -	11:10 Terukazu Sano (National Institute of Technology, Kisarazu College)  A note on the tree-arboricity of graphs on closed surfaces  Coffee Break
11:25 –	12:15 Marston Conder (University of Auckland)  New methods for finding minimum genus embeddings of graphs  Lunch
14:10 -	15:00 Roman Nedela (University of West Bohemia)  Graph coverings and harmonic morphism of graphs  Coffee Break
15:15 -	15:40 Peter Zeman (Charles University)  Jordan-like characterization of automorphism groups of planar graphs
15:40 -	16:05 Olivia Jeans (The Open University)  Möbius regularity and external symmetries of regular maps on linear fractional groups
16:05 -	16:30 Hideaki Morita (Muroran Institute of Technology)  Three expressions of combinatorial zeta functions  ———————————————————————————————————
16:45 -	17:05 Kenta Noguchi (Tokyo University of Science)  Re-embedding an optimal 1-planar graph into a triangulation or a quadrangulation
17:05 -	17:25 Seiya Negami (Yokohama National University)  Oriented triad colorings of triangulations on closed surfaces
17:45 -	20:00 Welcome Reception at Hatoba Hall

### DAY 2 – October 25 (Thu.)

9:05	Registration
9:20 -	9:40 Naoki Mochizuki (Yokohama National University)  Minimum-length embeddings of graphs on the torus and their circle packings
9:40 -	10:00 Naoki Matsumoto (Seikei University)  Bichromatic coloring game on triangulations with few inner points
10:00 -	10:20 Sho Kubota (Tohoku University)  Periodicity of Grover walks on jointed graphs
10:20 -	10:45 Etsuo Segawa (Yokohama National University)  Reproductive property of Grover walk
10:45 -	11:10 Katie Clinch (University of Tokyo)  Symmetric Rigidity Theory  Coffee Break
11:25 –	12:15 Ken-ichi Kawarabayashi (National Institute of Informatics)  Directed Graph Minors
	Lunch
14:10 –	15:00 Xuding Zhu (Zhejiang Normal University)  A refinement of choosability of graphs
	Coffee Break
15:15 -	15:40 Seog-Jin Kim (Konkuk University)  Signed coloring of k-chromatic graphs
15:40 -	16:05 Min Yan (Hong Kong University of Science and Technology)  Pentagonal Subdivision
16:05 -	16:30 Hoi Ping LUK (Hong Kong University of Science and Technology)  Almost equilateral pentagonal tilings of the sphere
	Coffee Break
16:45 -	17:00 Daiki Ikegami (Yokohama National University)  Flippable edges of triangulations on closed surfaces
17:00 -	17:20 Yumiko Ohno (Yokohama National University)  Facial achromatic number of triangulations on the sphere
17:20 -	17:40 Atsuhiro Nakamoto (Yokohama National University)  Geometric quadrangulations of a polygon

# DAY 3 – October 26 (Fri.)

9:05	Registration
9:20 -	9:40 Toshiki Abe (Yokohama National University)  Domination number of k-holed triangulation on the plane
9:40 -	10:05 Shuji Yamada (Kyoto Sangyo University)  Optimum grading and the Kirchhoff's matrix-tree theorem
10:05 -	10:25 Maho Yokota (Tokyo University of Science)  Connectivity, Toughness and Forbidden subgraph conditions
10:25 -	10:50 Shuya Chiba (Kumamoto University)  Partitioning a graph into cycles with a specified number of chords
10:50 -	11:15 Mikio Kano (Ibaraki University)  Tutte type conditions using isolated vertices for a graph to have factors  ———————————————————————————————————
11:30 -	12:20 Hehui Wu (Fudan University)  Vertex partition with average degree constraint  Lunch
14:15 -	15:05 Gašper Fijavž (University of Ljubljana) $K_7\text{-}minors\ in\ embeddings}$ ————————————————————————————————————
15:20 -	15:40 Shun-ichi Maezawa (Yokohama National University)  Min-max theorem for an f-leaf-tree
15:40 -	16:05 Robert D. Barish (University of Tokyo)  Rotationally constrained simple cycles in combinatorial embeddings of graphs
16:05 -	16:30 Yasuko Matsui (Tokai University)  A simple enumeration algorithm for all substitutions rooted ordered subtrees into a term tree
	Coffee Break
16:45 -	17:05 Yoshihiro Asayama (Yokohama National University)  Balancedness for spanning bipartite quadrangulations of triangulations
17:05 -	17:25 Raiji Mukae (National Institute of Technology, Miyakonojo College)  Edge-maximal projective-planar and toroidal graphs
17:25 -	17:45 Yusuke Suzuki (Niigata University)  Partially broken orientations of Eulerian plane graphs