

## Research output

### Distributions of mesh patterns of short lengths

Kitaev, S. & Zhang, P. B., 1 Sep 2019, In : Advances in Applied Mathematics. 110, p. 1-32 32 p.

### On partially ordered patterns of length 4 and 5 in permutations

Gao, A. L. L. & Kitaev, S., 16 Aug 2019, In : The Electronic Journal of Combinatorics. 26, 3, 31 p., P3.26.

### Riordan graphs II: spectral properties

Cheon, G-S., Jung, J-H., Kitaev, S. & Mojallal, S. A., 15 Aug 2019, In : Linear Algebra and its Applications. 575, p. 174-215 42 p.

### Word-representability of Toeplitz graphs

Cheon, G-S., Kitaev, S., Kim, J. & Kim, M., 21 Jul 2019, (Accepted/In press) In : Discrete Applied Mathematics. p. 1-18 18 p.

### Riordan graphs I: structural properties

Cheon, G-S., Jung, J-H., Kitaev, S. & Mojallal, S. A., 30 May 2019, In : Linear Algebra and its Applications. 579, p. 89-135 47 p.

### On shortening u-cycles and u-words for permutations

Kitaev, S., Potapov, V. N. & Vajnovszki, V., 15 May 2019, In : Discrete Applied Mathematics. 260, p. 203-213 11 p.

### Polygon-circle and word-representable graphs

Enright, J. & Kitaev, S., 20 Mar 2019, In : Electronic Notes in Discrete Mathematics. 71, p. 3-8 6 p.

### On a greedy algorithm to construct universal cycles for permutations

Gao, A. L. L., Kitaev, S., Steiner, W. & Zhang, P. B., 5 Mar 2019, In : International Journal of Foundations of Computer Science. 30, 1, p. 61-72 12 p.

### Solving computational problems in the theory of word-representable graphs

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### On $k$ -11-representable graphs

Cheon, G-S., Kim, J., Kim, M., Kitaev, S. & Pyatkin, A., 23 Sep 2018, (Accepted/In press) In : Journal of Combinatorics. p. 1-19 19 p.

### On the representation number of a crown graph

Glen, M., Kitaev, S. & Pyatkin, A., 31 Jul 2018, In : Discrete Applied Mathematics. 244, p. 89-93 5 p.

### Графы, представимые в виде слов: обзор результатов

Kitaev, S. & Pyatkin, A., 30 Apr 2018, In : Diskretnyi Analiz i Issledovanie Operatsii. 25, 2, p. 19-53 35 p.

### On pattern avoiding indecomposable permutations

Gao, A. L. L., Kitaev, S. & Zhang, P. B., 16 Jan 2018, In : Integers: Electronic Journal of Combinatorial Number Theory. 18, 23 p., A2.

### Existence of $\mu$ -representation of graphs

Kitaev, S., 31 Jul 2017, In : Journal of Graph Theory. 85, 3, p. 661-668 8 p.

### On 132-representable graphs

Gao, A. L. L., Kitaev, S. & Zhang, P. B., 19 Jul 2017, (Accepted/In press) In : Australasian Journal of Combinatorics. 69, 1, p. 105-118

### **A comprehensive introduction to the theory of word-representable graphs**

Kitaev, S., 17 May 2017, (Accepted/In press) *Developments in Language Theory: 21th International Conference, DLT 2017, Leige, Belgium, August 7-11, 2017, Proceedings*. Berlin: Springer-Verlag, (Lecture Notes in Computer Science).

### **On universal partial words**

Chen, H. Z. Q., Kitaev, S., Mütze, T. & Sun, B. Y., 5 May 2017, (Accepted/In press) In : *Discrete Mathematics and Theoretical Computer Science*. 19, 1, 19 p., 16.

### **On universal partial words**

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### **New results on word-representable graphs**

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### **A note on p-Ascent Sequences**

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### **Pattern-avoiding alternating words**

Gao, A. L. L., Kitaev, S. & Zhang, P. B., 10 Jul 2016, In : *Discrete Applied Mathematics*. 207, p. 56-66

### **Word-representability of triangulations of grid-covered cylinder graphs**

Chen, H. Z. Q., Kitaev, S. & Sun, B. Y., 23 May 2016, (Accepted/In press) In : *Discrete Applied Mathematics*. 19 p.

### **Word-representability of face subdivisions of triangular grid graphs**

Chen, H. Z. Q., Kitaev, S. & Sun, B. Y., 30 Mar 2016, In : *Graphs and Combinatorics*. 13 p.

### **Semi-transitive orientations and word-representable graphs**

Halldórsson, M. M., Kitaev, S. & Pyatkin, A., 11 Mar 2016, In : *Discrete Applied Mathematics*. 201, p. 164-171 14 p.

### **Gray coding cubic planar maps**

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### **Avoiding vincular patterns on alternating words**

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### **Mahonian STAT on words**

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### **Word-representability of triangulations of rectangular polyomino with a single domino tile**

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### **Quadrant marked mesh patterns in 132-avoiding permutations III**

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### **Frame patterns in n-cycles**

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### **(a,b)-rectangle patterns in permutations and words**

Kitaev, S. & Rempel, J., 11 May 2015, In : Discrete Applied Mathematics. 186, p. 128-146 28 p.

### **Quadrant marked mesh patterns in 132-avoiding permutations II**

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### **On word-representability of polyomino triangulations**

Akrobotu, P., Kitaev, S. & Masarova, Z., 27 Feb 2015, In : Siberian Advances in Mathematics. 25, 1, p. 1-10 10 p.

### **Number of cycles in the graph of 312-avoiding permutations**

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### **An involution on bicubic maps and $\beta(0, 1)$ -trees**

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### **Representing graphs via pattern avoiding words**

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### **Enumeration of fixed points of an involution on $\beta(1, 0)$ -trees**

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### **The 1-box pattern on pattern-avoiding permutations**

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### **Word-representable graphs and permutation patterns**

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### **Universal graphs and universal permutations**

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### **Restricted non-separable planar maps and some pattern avoiding permutations**

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**Generalized pattern avoidance condition for the wreath product of cyclic groups with symmetric groups**

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**Quadrant marked mesh patterns in alternating permutations II**

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**Crucial and bicrucial permutations with respect to arithmetic monotone patterns**

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**Quadrant marked mesh patterns in alternating permutations**

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**Quadrant marked mesh patterns in 132-avoiding permutations**

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**A direct encoding of Stoimenow's matchings as ascent sequences.**

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### **Pattern avoidance in partial permutations**

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### **On avoidance of V- and $\wedge$ -patterns in permutations**

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### **Enumerating (2+2)-free posets by the number of minimal elements and other statistics**

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### **A survey on partially ordered patterns**

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**On uniquely  $k$ -determined permutations**

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**Enumerating segmented patterns in compositions and encoding with restricted permutations**

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**Independent sets on path-schemes**

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**Simultaneous avoidance of generalized patterns**

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**Partially ordered generalized patterns and their combinatorial interpretation**

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### **On unavoidable sets of word patterns**

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### **Pattern avoidance in matrices**

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### **Generating the Peano curve and counting occurrences of some patterns**

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### **Independent sets on path-schemes**

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### **The problem of the pawns**

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### **Crucial words and the complexity of some extremal problems for sets of prohibited words**

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### **On multi-avoidance of right angled numbered polyomino patterns**

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### **The sigma-sequence and counting occurrences of some patterns, subsequences and subwords**

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### **Partially ordered generalized patterns and k-ary words**

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### **Generalized pattern avoidance with additional restrictions**

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### **Multi-avoidance of generalised patterns**

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### **Generalized Patterns in Words and Permutations**

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### **There are no iterated morphisms that define the Arshon sequence and the sigma-sequence**

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### **Partially ordered generalized patterns**

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## **Projects**

### **10th Nordic Combinatorial Conference 2010, Reykjavik University**

Kitaev, S.

### **10th annual conference on Permutation Patterns 2012**

Kitaev, S.



**23rd International Conference on Formal Power Series and Algebraic Combinatorics, Reykjavik University**  
Kitaev, S.

**4th annual conference on Permutation Patterns 2006, Reykjavik University**  
Kitaev, S.

**Global Engagements: Sergey Kitaev University of California, San Diego (UCSD)**  
Kitaev, S.  
7/04/14 → 6/04/15