Diskrētā matemātika / Discrete mathematics



82**. Latvijas Universitātes** starptautiskā zinātniskā konference 2024

Report of Contributions

A generalization of differences and ...

Contribution ID: 1

Type: Oral presentation

A generalization of differences and connections to weak BCK-algebras

Wednesday, 14 February 2024 15:35 (30 minutes)

We investigate conditions under which a poset equipped with a weak difference gives rise to a weak BCK-algebra whose subtraction operation coincides with the weak difference for comparable elements.

Keywords

Acknowledgements

Primary author: KREMERE, InsaPresenter: KREMERE, InsaSession Classification: Discrete Mathematics

Diskrētā mate ... / Report of Contributions

Examples (Analysis) of Non-...

Contribution ID: 3

Type: Oral presentation

Examples (Analysis) of Non-Classical Games in Combinatorial Geometry

Wednesday, 14 February 2024 14:05 (30 minutes)

Some games using polyforms (pentominoes, hexiamonds) are considered.

Keywords

Acknowledgements

Primary author: CIBULIS, AndrejsPresenter: CIBULIS, AndrejsSession Classification: Discrete Mathematics

Families of Perfect Polyiamonds as ...

Contribution ID: 4

Type: Oral presentation

Families of Perfect Polyiamonds as Formal Languages

Wednesday, 14 February 2024 15:05 (30 minutes)

We study n-polyiamonds with the restriction: Their sides lengths are all numbers between 1 and n in this order. Each polyiamond has a unique encoding in a 6-letter alphabet. We study formal grammars to describe interesting families of such polyiamonds.

Keywords

polyiamond area regex CFG grammar

Acknowledgements

We are grateful to Andrejs Cibulis for introducing this problem to us and making many valuable suggestions.

Primary author: APSĪTIS, Kalvis (University of Latvia)
Co-author: Ms RUDZĀTE, Marta (University of Latvia)
Presenter: APSĪTIS, Kalvis (University of Latvia)
Session Classification: Discrete Mathematics

APE-Shapes - Polyominoes, Polyi ...

Contribution ID: 5

Type: Oral presentation

APE-Shapes – Polyominoes, Polyiamonds and Polyhexes

Wednesday, 14 February 2024 14:35 (30 minutes)

The talk will deal with the question of what values the number of edges can take for APE-polygons on square, triangular and hexagonal grids.

Keywords

Acknowledgements

Primary author: BULIŅA, Elīna

Co-author: CIBULIS, Andrejs

Presenter: BULIŅA, Elīna

Session Classification: Discrete Mathematics

Diskrētā mate ... / Report of Contributions

Konveijera lenšu problēma

Contribution ID: 6

Type: Oral presentation

Konveijera lenšu problēma

Wednesday, 14 February 2024 16:05 (30 minutes)

Keywords

Acknowledgements

Primary author: VALAINIS, Aigars (Latvijas Universitāte)
Presenter: VALAINIS, Aigars (Latvijas Universitāte)
Session Classification: Discrete Mathematics

Diskrētā mate ... / Report of Contributions

Galīgi gredzeni un formālās pakāp...

Contribution ID: 7

Type: Oral presentation

Galīgi gredzeni un formālās pakāpju rindas

Wednesday, 14 February 2024 16:35 (30 minutes)

Keywords

Acknowledgements

Primary author: BULS, Jānis (Latvijas Universitāte)
Presenter: BULS, Jānis (Latvijas Universitāte)
Session Classification: Discrete Mathematics