



# Petros Ashot Petrosyan

## Faculty of Informatics and Applied Mathematics

Chair of Discrete Mathematics and Theoretical Informatics

Ամբիոնի վարիչ (դոցենտ)

 (060) 71-00-63

 petros\_petrosyan@ysu.am

## Education

<b>Institution</b>	Institute for Informatics and Automation Problems of NAS of RA
<b>Faculty</b>	Special colorings of graphs
<b>Date</b>	2003 - 2006
<b>Degree name</b>	PhD student

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Informatics and Applied Mathematics
<b>Date</b>	2001 - 2003
<b>Degree name</b>	Masters

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Informatics and Applied Mathematics
<b>Date</b>	1997 - 2001
<b>Degree name</b>	Bachelor

## Scientific Rank/degree

<b>Institution</b>	Institute for Informatics and Automation Problems of NAS of RA
<b>Date</b>	2006
<b>Degree name</b>	Candidate
<b>Specialty</b>	Physico-mathematical sciences
<b>Scientific Supervisor</b>	R.R. Kamalian
<b>Research Topic</b>	Interval color-feasible sequences for some classes of graphs

## Language skills

Հայերեն Русский English

## Work experience

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2022 till now
<b>Rank/degree</b>	Head of the chair of Discrete Mathematics and Theoretical Informatics

**Institution** Gdansk University of Technology  
**Period of time** 2020 - 2020  
**Rank/degree** Visiting professor at Faculty of Electronics, Telecommunications and Informatics

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**Institution** Yerevan State University  
**Period of time** 2020 - 2022  
**Rank/degree** Acting head of the chair of Discrete Mathematics and Theoretical Informatics

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**Institution** Gdansk University of Technology  
**Period of time** 2019 - 2019  
**Rank/degree** Visiting professor at Faculty of Electronics, Telecommunications and Informatics

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**Institution** Yerevan State University  
**Period of time** 2016 till now  
**Rank/degree** Associate professor at Department of Informatics and Applied Mathematics

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**Institution** Russian-Armenian (Slavonic) University  
**Period of time** 2016 till now  
**Rank/degree** Associate professor at Department of Applied Mathematics and Informatics

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**Institution** Institute for Informatics and Automation Problems of NAS RA  
**Period of time** 2007 - 2019  
**Rank/degree** Researcher

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**Institution** Yerevan State University  
**Period of time** 2006 - 2016  
**Rank/degree** Assistant professor at Department of Informatics and Applied Mathematics

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**Institution** Russian-Armenian (Slavonic) University  
**Period of time** 2003 - 2005  
**Rank/degree** Instructor of Discrete Mathematics, Combinatorial Algorithms, Graph Theory and Information Security at the Department of Applied Mathematics

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**Institution** Institute for Informatics and Automation Problems of NAS RA  
**Period of time** 2002 - 2006  
**Rank/degree** Junior Researcher

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## Scientific interests

- Discrete Mathematics, Graph Theory, Combinatorial Optimization, Approximation Algorithms, Complexity Theory, Complex Networks.
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*Article*

**Near-interval edge colorings of graphs**

Petros A. Petrosyan, Carl Johan Casselgren, Michał Mańafiejski, Krzysztof Pastuszak

Discrete Applied Mathematics 2025 23-36

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*Article*

**О СИЛЬНЫХ РЕБЕРНЫХ РАСКРАСКАХ ДВУДОЛЬНЫХ ГРАФОВ**

П.А. Петросян, А.К. Драмбян

Вестник Российско-Армянского Университета: Физико-математические и естественные науки 2025

33-40

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*Article*

**Вершинно-различающие реберные раскраски одного класса графов**

П.А. Петросян, Т.К. Петросян

Вестник Российско-Армянского Университета: Физико-математические и естественные науки 2025

41-52

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*Article*

**SOME BOUNDS ON THE NUMBER OF COLORS IN INTERVAL EDGE-COLORINGS OF GRAPHS**

P.A. Petrosyan, L.N. Muradyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2024 57-65

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*Article*

**Decomposing graphs into interval colorable subgraphs and no-wait multi-stage schedules**

Petros A. Petrosyan, Armen S. Asratian, Carl Johan Casselgren

Discrete Applied Mathematics 2023 25-35

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*Article*

**ON THE PALETTE INDEX OF GRAPHS HAVING A SPANNING STAR**

P.A. Petrosyan, A.B. Ghazaryan

Proceedings of the YSU A. Physical and Mathematical Sciences 2022 85-96

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*Article*

**Locally-balanced k-partitions of graphs**

P.A. Petrosyan, A.H. Gharibyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2021 96-112

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*Article*

**Improper interval edge colorings of graphs**

Petros A. Petrosyan, Carl Johan Casselgren

Discrete Applied Mathematics 2021 164-178

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*Article*

**On locally-balanced 2-partitions of bipartite graphs**

P.A. Petrosyan, A.H. Garibyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2020 137-145

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Article

**Some results on the palette index of graphs**

Petros A. Petrosyan, Carl Johan Casselgren

DISCRETE MATHEMATICS AND THEORETICAL COMPUTER SCIENCE 2019 1-20

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Article

**Cyclic deficiency of graphs**

Petros A. Petrosyan, Armen S. Asratian, Carl Johan Casselgren

Discrete Applied Mathematics 2019 171-185

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Article

**Some bounds on the number of colors in interval and cyclic interval edge colorings of graphs**

Petros A. Petrosyan, Carl Johan Casselgren, Hrant H. Khachatryan

Discrete Mathematics 2018 627-637

<https://www.sciencedirect.com/science/article/pii/S0012365X17303837>

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Article

**Some results on cyclic interval edge colorings of graphs**

Petros A. Petrosyan, Armen S. Asratian, Carl Johan Casselgren

Journal of Graph Theory 2018 239-252

<https://onlinelibrary.wiley.com/journal/10970118>

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Article

**On Locally-Balanced 2-Partitions of Complete Multipartite Graphs**

Petros A. Petrosyan, Aram H. Gharibyan

Mathematical Problems of Computer Science 2018 7-17

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Article

**Interval edge-colorings of composition of graphs**

H.H. Tepanyan, P.A. Petrosyan

Discrete Applied Mathematics 2017 368-374

<https://www.journals.elsevier.com/discrete-applied-mathematics/>

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Article

**Further results on the deficiency of graphs**

P.A. Petrosyan, H.H. Khachatryan

Discrete Applied Mathematics 2017 117-126

<https://www.journals.elsevier.com/discrete-applied-mathematics/>

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Article

**On interval edge-colorings of outerplanar graphs**

P.A. Petrosyan

Ars Combinatoria 2017 127-135

<http://www.combinatorialmath.ca/arscombinatoria/>

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Article

**On interval and cyclic interval edge colorings of (3,5)-biregular graphs**

Carl Johan Casselgren, Petros A. Petrosyan, Bjarne Toft

Discrete Mathematics 2017 2678-2687

<http://www.elsevier.com/locate/disc>

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Article

**Interval cyclic edge-colorings of graphs**

P.A. Petrosyan, S.T. Mkhitarian

Discrete Mathematics 2016 1848-1860

<http://www.elsevier.com/locate/disc>

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Article

**Interval edge-colorings of complete graphs**

P.A. Petrosyan, H.H. Khachatrian

Discrete Mathematics 2016 2249-2262

<http://www.elsevier.com/locate/disc>

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Manual

**Գրաֆների տեսություն**

Պ.Ա. Պետրոսյան, Վ.Վ. Մկրտչյան, Ռ.Ռ. Քամայան

2015 214

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Conference

**Interval edge colorings of Hamming graphs**

Petros Petrosyan, Hrant Khachatrian

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Conference

**On Interval Edge-Colorings of Bipartite Graphs**

Petros Petrosyan, Hrant Khachatrian, Tigran Mamikonyan

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Conference

**On Interval Cyclic Colorings of Bipartite Graphs**

Petros A. Petrosyan, Armen S. Asratian, Carl Johan Casselgren

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Conference

**On the Palette Index of Bipartite Graphs**

Petros A. Petrosyan

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Conference

**On the Achromatic Index of Complete Graphs**

Petros A. Petrosyan, Narek H. Hovsepyan

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Conference

**On Locally-Balanced 2-Partitions of Some Graphs**

Petros A. Petrosyan, Aram H. Gharibyan

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Conference

**Near-interval edge-colorings of graphs**

P.A. Petrosyan

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Conference

**Some results on palette index of graphs**

Petros Petrosyan

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*Conference*

**Interval Edge-Colorings of Graphs: Variations and Generalizations**

Petros A. Petrosyan

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*Conference*

**Decomposing graphs into interval colorable subgraphs and no-wait multi-stage schedules**

P.A. Petrosyan, A.S. Asratian, C.J. Casselgren

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*Conference*

**An Upper Bound on the Edge-Chromatic Sum of Fibonacci Cubes**

Petros Petrosyan, Hamlet Mikaelyan

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*Conference*

**On Interval Coloring Thickness of Some Classes of Bipartite Graphs**

Petros Petrosyan, Raya Yesayan

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*Conference*

**Strong Edge-Coloring of Hamming Graphs**

Petros Petrosyan, Aram Drambyan

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*Conference*

**Vertex-Distinguishing Edge Coloring of Fibonacci Cubes**

Petros Petrosyan, Tigran Petrosyan

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*Conference*

**Strong Edge-Colorings of Powers of Paths and Cycles**

P. Petrosyan, A. Drambyan

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*Conference*

**ON THE ALGORITHM OF RECOGNIZING OF INTERVAL COLORABILITY OF CACTUS GRAPHS**

P. Petrosyan, L. Muradyan

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*Conference*

**ВЕРШИННО-РАЗЛИЧАЮЩАЯ РЕБЕРНАЯ РАСКРАСКА КУБОВ ЛУКАСА**

П.А. Петросян, Т.К. Петросян

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*Conference*

**ON CYCLIC INTERVAL COLORINGS OF GRAPHS**

Petros A. Petrosyan

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*Conference*

**EDGE-CHROMATIC SUMS OF TENSOR AND STRONG TENSOR PRODUCTS OF GRAPHS**

Petros A. Petrosyan, Hamlet V. Mikaelyan

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*Conference*

**NEAR-INTERVAL EDGE-COLORINGS OF GRAPHS**

Petros A. Petrosyan

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*Conference*

# On Interval Coloring Thickness of Graphs

Petros Petrosyan

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