Petros Ashot Petrosyan

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Faculty of Informatics and Applied Mathematics
Chair of Discrete Mathematics and Theoretical Informatics
Head of Chair (Associate Professor)

Faculty of Informatics and Applied Mathematics
Chair of Discrete Mathematics and Theoretical Informatics
Head of Chair (Associate Professor)

Faculty of Informatics and Applied Mathematics
Chair of Discrete Mathematics and Theoretical Informatics
Associate professor

Faculty of Mathematics and Mechanics
Center for Mathematical and Applied Research
Group Leader

Education

Institution	Institute for Informatics and Automation Problems
Faculty	Special colorings of graphs
Date	2003 - 2006
Degree name	PhD student

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

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

Scientific Rank/degree

Institution	Institute for Informatics and Automation Problems
Date	2006
Degree name	Candidate
Scientific Supervisor	R.R. Kamalian
Research Topic	Interval color–feasible sequences for some classes of graphs

Language skills

Work experience

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

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

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

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

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

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

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

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

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

Institution	Institute for Informatics and Automation Problems of NAS RA
Period of time	2002 - 2006

Rank/degree	Junior Researcher

Publications

Article

NEAR-INTERVAL EDGE-COLORINGS OF COMPLETE BIPARTITE GRAPHS
Petros A. Petrosyan, Vahagn D. Tsirunyan

Proceedings of the YSU A Physical and Mathematical Sciences 2026 5-13

https://journals.ysu.am/index.php/proceedings-phys-math/article/view/vol60_no1_...

Article

Interval Edge-Colorings of Cartesian Products of Graphs II
Petros A. Petrosyan, Hrant H. Khachatrian, Hovhannes G. Tananyan

Bulletin of the Malaysian Mathematical Sciences Society 2026 25

https://doi.org/10.1007/s40840-026-02096-4

Article

On the chromatic edge stability index of planar and regular graphs
Petros A. Petrosyan, Samvel H.Abelyan

Discrete Mathematics 2026 6p

https://doi.org/10.1016/j.disc.2026.115246

Article

ON EDGE-CHROMATIC SUMS OF CORONA PRODUCTS OF GRAPHS
P.A. Petrosyan, H. V. MIKAELYAN

Proceedings of the YSU A Physical and Mathematical Sciences 2026 83-90

https://journals.ysu.am/proceedings-phys-math/article/view/vol60_no2_2026_pp083...

Article

Near-interval edge colorings of graphs
Petros A. Petrosyan, Carl Johan Casselgren, Michał Małafiejski, Krzysztof Pastuszak

Discrete Applied Mathematics 2025 23-36

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

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

Conference

EDGE-CHROMATIC SUMS OF TENSOR AND STRONG TENSOR PRODUCTS OF GRAPHS
Petros A. Petrosyan, Hamlet V. Mikaelyan

2025 45-47

https://www.ysu.am/conference/915

Conference

NEAR-INTERVAL EDGE-COLORINGS OF GRAPHS

Petros A. Petrosyan

2025 55-57

https://www.ysu.am/conference/915

Conference

On Interval Coloring Thickness of Graphs

Petros Petrosyan

2025 8 - 9

https://math.hse.ru/cg/announcements/1078803815.html

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

Conference

ON CYCLIC INTERVAL COLORINGS OF GRAPHS

Petros A. Petrosyan

2024 81 - 81

https://amu.sci.am/international-conference-on-algebra-logic-and-their-applicat...

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

Conference

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

Petros Petrosyan, Hamlet Mikaelyan

2023 137-138

https://csit.am/2023/

Conference

On Interval Coloring Thickness of Some Classes of Bipartite Graphs

Petros Petrosyan, Raya Yesayan

2023 141-143

https://csit.am/2023/

Conference

Strong Edge-Coloring of Hamming Graphs

Petros Petrosyan, Aram Drambyan

2023 131-132

https://www.csit.am/2023/

Conference

Vertex-Distinguishing Edge Coloring of Fibonacci Cubes

Petros Petrosyan, Tigran Petrosyan

2023 144-146

https://www.csit.am/2023/

Conference

Strong Edge-Colorings of Powers of Paths and Cycles
P. Petrosyan, A. Drambyan

2023 35-37

https://science.rau.am/page/rauconfscience

Conference

ON THE ALGORITHM OF RECOGNIZING OF INTERVAL COLORABILITY OF CACTUS GRAPHS
P. Petrosyan, L. Muradyan

2023 42-43

https://science.rau.am/page/rauconfscience

Conference

ВЕРШИННО-РАЗЛИЧАЮЩАЯ РЁБЕРНАЯ РАСКРАСКА КУБОВ ЛУКАСА
П.А. Петросян, Т.К. Петросян

2023 44-46

https://science.rau.am/page/rauconfscience

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

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

Article

Improper interval edge colorings of graphs
Petros A. Petrosyan, Carl Johan Casselgren

Discrete Applied Mathematics 2021 164-178

Conference

Decomposing graphs into interval colorable subgraphs and no-wait multi-stage schedules
P.A. Petrosyan, A.S. Asratian, C.J. Casselgren

2021 33

https://ecco2021madrid.com/en/

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

Article

Some results on the palette index of graphs

Petros A. Petrosyan, Carl Johan Casselgren

DISCRETE MATHEMATICS AND THEORETICAL COMPUTER SCIENCE 2019 1-20

Article

Cyclic deficiency of graphs
Petros A. Petrosyan, Armen S. Asratian, Carl Johan Casselgren

Discrete Applied Mathematics 2019 171-185

Conference

Interval Edge-Colorings of Graphs: Variations and Generalizations
Petros A. Petrosyan

2019 15-16

https://logic.pdmi.ras.ru/csr2019/

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. Khachatrian

Discrete Mathematics 2018 627-637

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

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

Article

On Locally-Balanced 2-Partitions of Complete Multipartite Graphs
Petros A. Petrosyan, Aram H. Gharibyan

Mathematical Problems of Computer Science 2018 7-17

Conference

Near-interval edge-colorings of graphs
P.A. Petrosyan

2018 22-24

http://mk.cs.msu.ru/dm10

Conference

Some results on palette index of graphs
Petros Petrosyan

2018 60-61

http://gwgt.eti.pg.gda.pl/

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/

Article

Further results on the deficiency of graphs
P.A. Petrosyan, H.H. Khachatrian

Discrete Applied Mathematics 2017 117-126

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

Article

On interval edge-colorings of outerplanar graphs

P.A. Petrosyan

Ars Combinatoria 2017 127-135

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

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

Conference

On the Palette Index of Bipartite Graphs

Petros A. Petrosyan

2017 217-219

http://www.csit.am/2017/

Conference

On the Achromatic Index of Complete Graphs
Petros A. Petrosyan, Narek H. Hovsepyan

2017 200-202

http://www.csit.am/2017/

Conference

On Locally-Balanced 2-Partitions of Some Graphs
Petros A. Petrosyan, Aram H. Gharibyan

2017 196-197

http://www.csit.am/2017/

Article

Interval cyclic edge-colorings of graphs
P.A. Petrosyan, S.T. Mkhitaryan

Discrete Mathematics 2016 1848-1860

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

Article

Interval edge-colorings of complete graphs
P.A. Petrosyan, H.H. Khachatrian

Discrete Mathematics 2016 2249-2262

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

Conference

Interval edge colorings of Hamming graphs
Petros Petrosyan, Hrant Khachatrian

2015 134

http://kg15.herokuapp.com/

Conference

On Interval Edge-Colorings of Bipartite Graphs
Petros Petrosyan, Hrant Khachatrian, Tigran Mamikonyan

2015 71-76

http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7321956

Conference

On Interval Cyclic Colorings of Bipartite Graphs
Petros A. Petrosyan, Armen S. Asratian, Carl Johan Casselgren

2015 58-60

https://csit.am/2015/

Study manual

Գրաֆների տեսություն
Պ.Ա. Պետրոսյան, Վ.Վ. Մկրտչյան, Ռ.Ռ. Քամալյան

2015 214
