

# Yuri Movses Movsisyan

## Faculty of Mathematics and Mechanics

Chair of Algebra and Geometry

Honorary head of the chair

☎ 23-17  
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## Education

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<b>Institution</b>	Yerevan State University, Kishinev State University
<b>Faculty</b>	Mathematics
<b>Date</b>	1966 - 1971
<b>Degree name</b>	Bachelor

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## Scientific Rank/degree

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<b>Institution</b>	St. Petersburg State University
<b>Date</b>	1992
<b>Degree name</b>	Doctor
<b>Specialty</b>	Physico-mathematical sciences
<b>Research Topic</b>	Hyperidentities in Algebras

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<b>Institution</b>	Kishinev State University
<b>Date</b>	1974
<b>Degree name</b>	Candidate
<b>Specialty</b>	Physico-mathematical sciences
<b>Scientific Supervisor</b>	V.D.Belousov
<b>Research Topic</b>	Second Order Identities and Algebras of Second Degree

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## Work experience

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<b>Institution</b>	Armenian Mathematical Union
<b>Period of time</b>	2017 till now
<b>Rank/degree</b>	President

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2015 till now
<b>Rank/degree</b>	Leading Researcher

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2013 till now
<b>Rank/degree</b>	Honorary Head of the Department of Algebra and Geometry

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<b>Institution</b>	European Regional Academy
<b>Period of time</b>	2005 - 2015
<b>Rank/degree</b>	Head of the Chair of Applied Mathematics

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<b>Institution</b>	Iowa State University
<b>Period of time</b>	2004 - 2005
<b>Rank/degree</b>	Fulbright Visiting Professor

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<b>Institution</b>	Russian-Armenian (Slavonic) University
<b>Period of time</b>	1998 - 2003
<b>Rank/degree</b>	Professor of Mathematics

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	1986 - 2013
<b>Rank/degree</b>	Head of the Department of Algebra and Geometry

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	1986 till now
<b>Rank/degree</b>	Professor of Mathematics

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	1974 - 1986
<b>Rank/degree</b>	Associate Professor of Mathematics

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## Scientific interests

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- Algebra, mathematical logic, model theory, second-order logic/language, Boolean functions, discrete mathematics, hyperidentities
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## State awards and honorary titles

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2019 Medal of Anania Shirakatsi

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## Publications

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*Article*

### **On Singular Functional Variables in Hyperidentities**

Yu.Movsisyan, S.Davidov

Pattern Recognition and Image Analysis 2024 pp.31-39

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*Article*

### **Classification of Dual Distributive Hyperidentities in Divisible Algebras (КЛАССИФИКАЦИЯ ДУАЛЬНЫХ ДИСТРИБУТИВНЫХ СВЕРХТОЖДЕСТВ В ДЕЛИМЫХ АЛГЕБРАХ)**

Ю.М.Мовсисян, С.С.Давидов

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))  
2024 295 - 304

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*Article*

**Second-Order Formulas in Action**

Yuri Movsisyan

APPLIED MATHEMATICS 2024 651-685

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*Book*

**Բարձրագույն Հանրահաշիվ և Թվերի Տեսություն**

Յուրի Մովսիսյան

2023 954

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*Article*

**Schauffler-type theorems**

Yu.M. Movsisyan, D.N. Harutyunyan

Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences) 2023 116-124

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*Article*

**Schauffler-Like Theorems for Medial and Paramedial Algebras**

Yu.M. Movsisyan, D.N. Harutyunyan

London Journal of Research In Science: Natural and Formal 2023 1-15

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*Article*

**Теоремы типа Шауфлера**

Ю.М. Мовсисян, Д.Н. Арутюнян

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))  
2023 68-81

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*Article*

**Boole-De Morgan Bilattices**

Yu. M. Movsisyan

Journal of Multiple-Valued Logic and Soft Computing 2022 137-152

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*Monograph*

**Hyperidentities: Boolean and De Morgan Structures**

Yuri Movsisyan

2022 560

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*Article*

**Invertible algebras satisfying associative identities with functional variables**

Yu.Movsisyan, A.Gevorgyan

Asian-European Journal of Mathematics 2021 2050155(16pages)

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*Article*

**A generalization of the Artin theorem**

Yu.M.Movsisyan, M.A.Yolchyan

*Article*

**Cayley-type theorems for g-dimonoids**

Yu.M.Movsisyan, M.A.Yolchyan

Armenian Journal of Mathematics 2020 1-14

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*Article*

**The Geometry of Point Reflections and Quasigroups**

Yuri Movsisyan, Victor Pambuccian

Results in Mathematics 2020 1-19

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*Article*

**Armenian Mathematical Union - History and Activity**

Yuri Movsisyan

Newsletter Of The European Mathematical Society 2020 43-44

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*Article*

**Armenian Mathematical Union-History and Activity**

Yuri Movsisyan

Newsletter Of The European Mathematical Society 2020 43-44

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*Article*

**On Idempotent and Hyperassociative Structures**

Yu.Movsisyan, M.Yolchyan

Lobachevskii Journal of Mathematics 2019 1113-1121

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*Article*

**Интерассоциативность с помощью сверхтождеств**

Ю.М.Мовсисян, Г.Киракосян

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))  
2019 70-75

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*Article*

**Interassociativity Via Hyperidentities**

Yu.M.Movsisyan, G.Kirakosyan

Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences) 2019 191-194

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*Article*

**Invertible Algebras with  $\forall\exists^*(\forall)$ -Identities of Second Order Logic**

Yuri Movsisyan, Albert Gevorgyan

CSIT-2019 Proceedings 2019 24-25

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*Article*

**Functional Equations with Division and Regular Operations**

Sergey Davidov, Aleksandar Krapez, Yuri Movsisyan

Asian-European Journal of Mathematics 2018 1850033 (14 p.)

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*Article*

## **Hyperidentities and Related Concepts, II**

Yu.M.Movsisyan

Armenian Journal of Mathematics 2018 1-85

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*Article*

### **On functional equations and distributive second order formulae with specialized quantifiers**

Yuri Movsisyan

Algebra and Discrete Mathematics 2018 269-285

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*Monograph*

### **Алгебры близкие к квазигруппам**

Ю.М.Мовсисян, С.С.Давидов

2018 408

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*Article*

### **Non-Idempotent Plonka Functions and Weakly Plonka Sums**

Yu.M.Movsisyan, D.S.Davidova

Вестник Казанского государственного энергетического университета 2017 7\_17

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*Article*

### **Artin Theorem for Semigroups**

Yu.M.Movsisyan, T.A.Hakobyan

Journal of Algebra and its Applications 2017 1750034(16 pages)

<http://www.worldscientific.com/worldscinet/jaa>

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*Article*

### **Dicson's theorem for Bool loops**

Yuri Movsisyan

Algebra and Discrete Mathematics 2017 297-301

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*Article*

### **Hyperidentities and Related Concepts, I**

Yu.M.Movsisyan

Armenian Journal of Mathematics 2017 146-222

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*Article*

### **On Belousov Quasigroups**

Yu.M.Movsisyan

CSIT-2017 Proceedings 2017 38-38

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*Article*

### **A set-theoretical representation for weakly idempotent lattices and interlaced weakly idempotent bilattices**

Movsisyan Yu.M., Davidova D.S.

European Journal of Mathematics 2016 853-873

<http://www.springer.com/mathematics/algebra/journal/40879>

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*Article*

### **Algebras with Parastrophically Uncancellable Quasigroup Equations**

Yuri Movsisyan, Amir Ehsani, Aleksandar Krapez

*Article*

**Сверхтождества слабо идемпотентных решеток**

Д.С.Давидова, Ю.М.Мовсисян

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))

2015 34-45

<http://jmath.sci.am/index.php/rus>

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*Article*

**Hyperidentities of Weakly Idempotent Lattices**

D.S.Davidova, Yu.M.Movsisyan

Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences) 2015 259-264

<http://www.allertonpress.com/journals/sam.htm>

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*Article*

**Weakly idempotent lattices and Bilattices, non-idempotent Plonka Functions**

D.S.Davidova, Yu.M.Movsisyan

Demonstratio Mathematica 2015 509-535.

<http://demmath.mini.pw.edu.pl/index.php>

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*Article*

**ALGEBRAS WITH MEDIAL-LIKE FUNCTIONAL EQUATIONS ON QUASIGROUPS**

A. Ehsani, A. Krapez, Yu. Movsisyan

arXiv.org 2015 1-9

<https://arxiv.org/>

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*Book*

**Բարձրագույն Հանրահաշիվ և Թվերի Տեսություն**

Յու.Մ.Մովսիսյան

2015 1

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*Article*

**Algebras with Parastropically Uncancellable Quasigroup Equations**

Yuri Movsisyan, Amir Ehsani, Aleksandar Krapez

arXiv.org 0 1-23

<https://arxiv.org/>

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*Conference*

**Finitely generated free algebras with hyperidentities of lattice varieties**

Yu.M.Movsisyan

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*Conference*

**A characterization of hyperidentities of the variety of weakly idempotent lattices**

Yu.M.Movsisyan, D.S.Davidova

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*Conference*

**Boolean-Linear Quasigroups**

Yu.M.Movsisyan, G.Rustamyán

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*Conference*

**Non-idempotent Plonka Functions and weakly Plonka Sums**

Yu.M.Movsisyan, D.S.Davidova

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*Conference*

**Bilattices of bi-De Morgan Functions**

Yuri M.Movsisyan

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*Conference*

**On idempotent algebras with hyperidentities of associativity**

T.Khachikyan, Yu.Movsisyan, S.Narimanyan

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*Conference*

**On Functional Equations with Division and Regular Operations**

S.Davidov, A.Krapez, Yu.Movsisyan

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*Conference*

**Free distributive bilattices**

Yuri Movsisyan

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*Conference*

**Idempotent algebras with semigroup operations.**

Yuri Movsisyan

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*Conference*

**On functional equations and distributive second order formulae**

Yuri Movsisyan

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*Conference*

**On the Belousov variety**

Yuri Movsisyan

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*Conference*

**Bigroup of Operations**

Yu.M.Movsisyan

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*Conference*

**On Characterization of Belousov Quasigroups**

Yu.M.Movsisyan, M.A.Mando

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*Conference*

**On Division and Regular Algebras with Functional Equations**

Yuri Movsisyan, Sergey Davidov, Aleksandar Krapez

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*Conference*

**On Burnside Variety**

Yu.M.Movsisyan

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*Conference*

**A Characterization of Bigroups of Operations**

Yu.M.Movsisyan

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*Conference*

**A characterization of the Belousov Variety**

Yu.M.Movsisyan, M.A.Mando

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*Conference*

**Parastrophically Uncancellable Equations with Division and Regular Operations**

Sergey Davidov, Yuri Movsisyan, Aleksandar Krapez

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*Conference*

**Algebraic foundation of new discrete mathematical functions**

Yu.M.Movsisyan

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*Conference*

**Varieties and Hypervarieties of Algebras and New Discrete Mathematical Functions**

Yu.M.Movsisyan

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*Conference*

**INTERASSOCIATIVITY VIA HYPERIDENTITIES**

Yu.M.Movsisyan, G.Kirakosyan

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*Conference*

**Representations of Free Algebras of Varieties and Hypervarieties**

Yuri Movsisyan

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*Conference*

**Schauffler Type Theorems for New Second Order Formulas**

Yuri Movsisyan, Albert Gevorgyan

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**Cayley-type theorem for  $\mathfrak{g}$ -dimonoids**

Yuri Movsisyan, Marlen Yolchyan

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**A Cayley-type theorem for  $\mathfrak{g}$ -dimonoids**

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**Algebras with hyperidentities of lattice varieties**

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**On idempotent and hyperassociative algebras**

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*Conference*



**Boolean and de Morgan Structures, Their Applications**

Yuri Movsisyan

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*Conference*

**Algebras and Varieties with Formulas of Second Order Logic**

Yuri Movsisyan

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*Conference*

**HYPERIDENTITIES AND RELATED SECOND ORDER FORMULAE**

Yu.M.Movsisyan

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*Conference*

**The Structure of Distributive d-algebras**

S. Davidov, Yu. Movsisyan

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*Conference*

**On linearity of universal algebras with second order formulas**

Yu.Movsisyan, D.Harutyunyan

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*Conference*

**On Singular Functional Variables in Hyperidentity of Distributivity**

Yuri Movsisyan, Sergey Davidov

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*Conference*

**STOCHASTIC MAPPINGS FORM AN ALGEBRA WITH HYPERIDENTITIES**

Movsisyan Yu.M.

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*Conference*

**Varieties and Hypervarieties of Algebras and New Discrete Mathematical Functions**

Yuri Movsisyan

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*Conference*

**ON HYPERIDENTITIES OF ASSOCIATIVITY**

Yuri Movsisyan

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