

# Yuri Ruben Hakopian

Faculty of Informatics and Applied Mathematics

Dean

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## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Applied Mathematics
<b>Date</b>	1966 - 1972
<b>Degree name</b>	Qualified specialist

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## Scientific Rank/degree

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2006
<b>Degree name</b>	Professor
<b>Specialty</b>	Physico-mathematical sciences

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<b>Institution</b>	Institute for Informatics and Automation Problems, National Academy of Sciences of Armenia
<b>Date</b>	2000
<b>Degree name</b>	Doctor
<b>Specialty</b>	Physico-mathematical sciences
<b>Research Topic</b>	Algebraic Multigrid Preconditioners for Finite Element Matrices

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## Language skills

Հայերեն Русский English

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## Work experience

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2021 till now
<b>Rank/degree</b>	Dean of the Faculty of Informatics and Applied Mathematics

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2020 - 2021
<b>Rank/degree</b>	Acting Dean of the Faculty of Informatics and Applied Mathematics

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<b>Institution</b>	Yerevan State University
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**Period of time** 2007 - 2020  
**Rank/degree** Head of the Department of Numerical Analysis and Mathematical Modeling

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**Institution** Yerevan State University  
**Period of time** 2001 - 2007  
**Rank/degree** Head of the Department of Mathematical Methods and Modeling

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**Institution** Yerevan State University  
**Period of time** 1996 - 2001  
**Rank/degree** Associate Professor, Department of Mathematical Methods and Modeling

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**Institution** Yerevan State University  
**Period of time** 1987 - 1996  
**Rank/degree** Associate Professor, Department of Mathematical Models and Methods of Natural Sciences

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**Institution** Yerevan State University  
**Period of time** 1980 - 1987  
**Rank/degree** Associate Professor, Department of Numerical Analysis

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**Institution** Yerevan State University  
**Period of time** 1976 - 1980  
**Rank/degree** Assistant at the Department of Numerical Analysis

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## Scientific interests

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- Numerical Analysis
  - Numerical Linear Algebra
  - Algebraic Multilevel Preconditioning Methods
  - Finite Element Method
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## Participation in international conferences and seminars

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**30/09/1997 - 02/11/1997** Research visit: INTAS, grant No. 93-377ex  
Catholic University of Nijmegen  
Netherlands (the)

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**28/09/1996 - 09/11/1996** Research visit: INTAS, grant No. 93-377ex  
Catholic University of Nijmegen  
Netherlands (the)

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**12/09/1995 - 12/10/1995** Research visit: INTAS, grant No. 93-377  
Catholic University of Nijmegen

Netherlands (the)

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**07/09/1993 -  
30/10/1993**      Research visit: NWO, grant No. 7.13.-016  
Catholic University of Nijmegen  
Netherlands (the)

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**20/03/1998 -  
01/05/1998**      Research visit: Department of Mathematics of the University of Houston  
University of Houston, Texas  
United States of America (the)

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**28/11/1992 -  
12/12/1992**      Research visit: Department of Mathematics of the University of Jyuvaskula  
University of Jyuvaskula  
Finland

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**07/04/1991 -  
10/04/1991**      Research visit: Semester on Numerical Analysis and Mathematical Modelling  
Stephan Banach International Mathematical Center, Warsaw  
Poland

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**07/04/1987 -  
21/04/1987**      Research visit: Semester on Numerical Analysis and Mathematical Modelling  
Stephan Banach International Mathematical Center, Warsaw  
Poland

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**24/06/1997 -  
30/06/1997**      International Algebraic Conference dedicated to the memory of D.K.Faddeev  
V.A. Steklov Mathematical Institute of the Russian Academy of Sciences, St.  
Petersburg branch  
Russian Federation (the)

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**18/09/1995 -  
22/09/1995**      1th European Conference on Numerical Mathematics and Advanced Applications  
ENUMATH'95  
Pierre and Marie Curie University, Paris  
France

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**29/06/1992 -  
03/07/1992**      3th International Conference on Numerical Analysis  
The Russian Academy of Sciences, Moscow  
Russian Federation (the)

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**21/05/1990 -  
25/05/1990**      4th International Symposium on Domain Decomposition Methods  
Academy of Sciences of the USSR, Moscow  
Russian Federation (the)

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**13/08/1989 -  
19/08/1989**      4th International Conference on Differential Equations and Applications  
Bulgarian Academy of Sciences, Ruse  
Bulgaria

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**21/09/2008 -  
26/09/2008**      VI international conference «Problems of the dynamics of interaction of deformable  
media»

Institute of Mechanics of the National Academy of Sciences of the Republic of  
Armenia  
Armenia

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**19/09/2011 -  
23/09/2011** VII international conference «Problems of the dynamics of interaction of deformable  
media»  
Institute of Mechanics of the National Academy of Sciences of the Republic of  
Armenia  
Armenia

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**25/09/1997 -  
29/09/1997** International Conference CSIT'1997 «Computer Science and Information  
Technologies»  
The National Academy of Sciences of the Republic of Armenia  
Armenia

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**17/08/1999 -  
22/08/1999** International Conference CSIT'1999 «Computer Science and Information  
Technologies»  
The National Academy of Sciences of the Republic of Armenia  
Armenia

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**17/09/2001 -  
20/09/2001** International Conference CSIT'2001 «Computer Science and Information  
Technologies»  
The National Academy of Sciences of the Republic of Armenia, Yerevan  
Armenia

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**22/09/2003 -  
26/09/2003** International Conference CSIT'2003 «Computer Science and Information  
Technologies»  
The National Academy of Sciences of the Republic of Armenia  
Armenia

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**26/09/2011 -  
30/09/2011** International Conference CSIT'2011 «Computer Science and Information  
Technologies»  
The National Academy of Sciences of the Republic of Armenia  
Armenia

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## Membership

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**Institution** Member of Specialized Council 044 «Mathematical Cybernetics and Mathematical  
Logic» at the Yerevan State University

**Period of time** 2008 - 2018

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**Institution** Member of Specialized Council 032 «Control, Automation Systems and Electronics»  
at the State Engineering University of Armenia

**Period of time** 2006 - 2007

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## State awards and honorary titles

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2009 Gold Medal of Yerevan State University

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## Publications

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*Article*

### **THE MOORE-PENROSE INVERSE OF TRIDIAGONAL SKEW-SYMMETRIC MATRICES. I**

Yu.R.Hakopian, A.H.Manukyan, H.V.Mikaelyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2023 1-8

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*Article*

### **The Moore-Penrose inverse of tridiagonal skew-symmetric matrices. II**

Yu.R. Hakopian, A.H. Manukyan, H.V. Mikaelyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2023 31-43

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*Manual*

### **Введение в метод конечных элементов**

Ю.Р.Акопян

2022 142

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*Article*

### **Analytical Inversion of Tridiagonal Hermitian Matrices**

Yuri R. Hakopian, Avetik H. Manukyan

Mathematical Problems of Computer Science 2022 7-19

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*Manual*

### **Մատրիցային անալիզի տարրեր**

Յուրի Ռուբենի Հակոբյան

2022 224

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*Article*

### **Computing the Moor-Penrose Inverse for Bidiagonal Matrices**

Yuri Hakopian

Могиланський математичний журнал (Mohyla Mathematical Journal) 2019 11-23

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*Book*

### **Թվային մեթոդներ**

Յուրի Հակոբյան

2019 462

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*Book*

### **Թվային մեթոդներ**

Յու.Հակոբյան

2019 462

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*Article*

### **Moore-Penrose inverse of bidiagonal matrices.IV**

Yu.R. Hakopian, S.S.Aleksanyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2016 23-29  
<http://www.y-su.am/science/en/journals>

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*Article*

**Moore-Penrose inverse of bidiagonal matrices.III**

Yu.R.Hakopian, S.S.Aleksanyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2016 12-21  
<http://www.y-su.am/science/en/journals>

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*Article*

**Moore-Penrose inverse of bidiagonal matrices.IV**

Yu.R.Hakopian, S.S.Aleksanyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2016 23-29  
<http://www.y-su.am/science/en/journals>

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*Article*

**THE MOORE-PENROSE INVERSE OF BIDIAGONAL MATRICES. I**

Yu.R. Hakopian, S.S.Aleksanyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2015 11-20  
<http://www.y-su.am/science/en/journals>

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*Article*

**Moore-Penrose inverse of bidiagonal matrices.II**

Yu.R.Hakopian, S.S.Aleksanyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2015 8-16  
<http://www.y-su.am/science/en/journals>

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