

# Resume of Professor Emeritus Antonios Ch. Panagiotopoulos

## General Information

Antonios Ch. Panagiotopoulos was born in Piraeus in 1934. He graduated from the Ionideion School and then studied at the Mathematics Department of the School of Physics and Mathematics of the University of Athens, from where he received his degree in 1956.

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## Academic Career

- **1934: Born in Piraeus.**
  - **1956: Graduated from the Mathematics Department of the University of Athens.**
  - **1959: Appointed Assistant at the Mathematics Department of the University of Athens.**
  - **1962-1964: Postgraduate studies in France (University of Paris, École Pratique des Hautes Études).**
  - **1965-1966: Lecturer at the Department of Applied Mathematics of the National Technical University of Athens.**
  - **1969: Elected Professor of Economic Mathematics and Statistics at the Industrial School of Piraeus (ITSU).**
  - **1980-1981: Served as Rector of ITSU.**
  - **1989: AVSP is transformed into the University of Piraeus; continues as Professor.**
  - **1991: Participates in the establishment of the Department of Informatics of the University of Piraeus.**
  - **1992-1996: Served as President of the Department of Informatics (1st term).**
  - **1998-2000: Served as President of the Department of Informatics (2nd term).**
  - **2002: Proclaimed Professor Emeritus of the University of Piraeus.**
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## University of Piraeus

- **In 1969 he was appointed Professor of Economic Mathematics and Statistics at the University of Piraeus. During his tenure:**
- **He taught courses such as Mathematical Programming, Algorithms, Logic, Operations Research, Statistics and Game Theory.**

- He worked to establish a Computer Center and promote the use of computers in education.
  - In 1980-1981 he served as Rector of the University of Piraeus. During his tenure, he contributed to the process of transforming the institution into the University of Piraeus, which was completed in 1989.
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## Department of Informatics, University of Piraeus

Antonios H. Panagiotopoulos was a visionary and pioneer in the establishment of the Department of Informatics at the University of Piraeus. Recognizing the importance of informatics since the 1980s, he pioneered the procedures for its creation, submitting proposals and collaborating with competent bodies. The department was founded in 1991, as one of the first in Greece.

As President of the Department (1992-1996 and 1998-2000) he contributed decisively to the formation of the curriculum, the development of modern laboratories and the recruitment of specialized teaching staff. His vision focused on the connection of informatics with its applications in economics and administration, making the department one of the pioneering academic pillars in the field.

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## Selections from his Research Work

- 1967: Publishes a paper on the theory of balanced incomplete block designs (BIBD).
- 1968-1971: Studies the connection of BIBD with graph theory and introduces new constructional methods.
- 1973: Works on the modeling of transportation and resource allocation systems through linear programs.
- 1975: Collaborates with Professor D. Germides on the mathematical analysis of collective bargaining.
- 1979: Publishes a method for predicting outcomes in systems with multiple interactions, based on game theory.
- 1983: Investigates the use of permutations in combinatory analysis and publishes a paper in the journal *Discrete Mathematics*.
- 1986: Presents methods for generating permutations related to the eight queens' problem.
- 1987: Collaborates with Professor N. Asimakopoulos on the analysis of operational systems, publishing a paper in the *European Journal of Operational Research*.
- 1992: Work on the correlation of binary trees and permutations through combinatorial analysis.
- 1997: Collaborates in research on the development of methods for planar permutations, publishing in the *Australasian Journal of Combinatorics*.

- **1998:** Participates in the development of a multimedia educational system for Greek philosophy (LOGOS).
  - **2000:** Studies the application of generalized levels of permutations and their properties in the field of combinatorial analysis.
  - **2003:** Publishes a paper on the mathematical analysis of meanders in the Journal of Integer Sequences.
  - **2005:** Studies the Motzkin word mapping in systems of non-intersecting partitions.
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## Books and Educational Textbooks

- 1. Economic Mathematics, Volumes I & II (1970, 1971):** A textbook for students of economics with an emphasis on the mathematical analysis of economic problems.
  - 2. Probability Courses (1971):** A book for an introduction to the basic principles of probability theory.
  - 3. Elements of Mathematics, Volumes I, II & III (1972, 1974):** A series for students of the sciences and economics.
  - 4. Mathematics (1980, Volumes I, II, III):** A comprehensive textbook on the fundamental mathematics applied to economics.
  - 5. Data Processing with Computers (1980):** A pioneering work for an introduction to data processing using computers.
  - 6. Elements of Infinite Calculus and Analytical Geometry, Volumes I & II (1985, 1990):** A textbook for advanced students of mathematics and applied sciences.
  - 7. Elements of Mathematical Programming (1988):** A book that combines theoretical and practical approaches in the field of mathematical programming.
  - 8. Insurance Calculus (1988):** In collaboration with N. Alexandris, a work that focuses on the mathematical foundations of insurance science.
  - 9. Infinite Calculus (1989):** A textbook that covers the basic and advanced concepts of infinite calculus.
  - 10. Algorithms (1991):** A book on the theory and applications of algorithms in the field of computer science.
  - 11. Discrete Mathematics (1993):** A book focusing on discrete structures and their applications in computer science.
  - 12. Mathematics, Volumes I & II (1995):** A collection of courses on mathematical analysis in economic sciences.
  - 13. Analytical Methodology for Mathematics (1997):** A work on the approach and solution of mathematical problems.
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## Activity in the Public and Private Sector

- **Service in the Statistical Computer Service of the Armed Forces during his military service, where he first met computers.**
- **Consulting work in industrial and commercial enterprises on the use of mathematical models in the analysis and forecasting of financial data.**
- **Development and participation in research projects concerning the application of information systems for the improvement of business administration and hospital organization.**
- **Collaboration with the Hellenic Society of Operations Research and participation in studies on the application of mathematical models to management problems.**
- **Member of the Central Competition Committee for the recruitment of IT employees in the Public Sector.**
- **Participation in the IT Coordination Group of the Ministry of Education for the development of information systems in education.**
- **Scientific Advisor to the Ministry of the Presidency of the Government for the development of technological management systems.**
- **Team leader for the analysis and development of information systems at the Ministry of Finance and Shipping.**
- **Committee member for the organization and development of state lottery procedures and information systems at OSE.**
- **Collaboration with the Central Union of Chambers of Greece for the evaluation of management information systems.**