

AT THE 45TH ANNIVERSARY  
OF “TIBERIU POPOVICIU” INSTITUTE OF NUMERICAL ANALYSIS

ION PĂVĂLOIU

On April first 1957, the General Session of the Romanian Academy decided to found the Institute of Numerical Analysis. This was the outcome of the remarkable results obtained by the School of Numerical Analysis and Approximation Theory, created and directed by the academician Tiberiu Popoviciu. The Institute has been directed by T. Popoviciu until his death, in 1975.

The first achievements obtained at the Institute were in the fields of: Best Approximation, Uniform Approximation, Interpolation Theory, Approximation of the Linear Functionals, Solving of the Operator Equations, Polilocal Problems for Differential Equations, etc. These researches have been developed in tight connection with practical problems, by finalizing research contracts with different industrial and economic institutions from our country.

In the field of the Informatics, there have been approached directions connected to the design and construction of computers, software development and the study of the programming languages. As a result of these researches, in 1964 has been finalized the construction of a first computer, DACICC-1. Another computer has followed a few years later, DACICC-200m with highly improved performances, both in hardware and in software.

These accomplishments and the published results have made that the Institute has been known worldwide. Six International Conferences have been organized here between 1960 and 1973, attended by famous and recognized specialists in Numerical Analysis and Approximation Theory. National (and even international) manifestations have also organized here after this period.

In 1972 Tiberiu Popoviciu has founded the journal *Revue d'Analyse Numérique et de Théorie de l'Approximation* which today still is a prestigious journal edited at this Institute by the Romanian Academy. This journal has appeared regularly, and is known in many scientific institutions abroad.

This year the Institute celebrates 45 years of activity. All these years it has functioned as a veritable school of Numerical Analysis and Approximation Theory, continuing to develop researches in these fields. In 1975 the employed personnel has been substantially reduced, but even in these conditions the research seminars organized here have continued their activity, the journal *Revue d'Analyse Numérique et de Théorie de l'Approximation* (as well as *Mathematica*) has regularly appeared, the young researches have continued to specialize by doctoral programs, and the researchers have elaborated and published numerous papers and monographs containing important results. This

proves that the ideas of the creator of the school of Numerical Analysis and Approximation Theory from Cluj-Napoca, Tiberiu Popoviciu, lasted over the years and entered the patrimony of the mathematical life from Cluj-Napoca.

The results obtained by the researchers of the Institute have entered the patrimony of the mathematics, as proven by the numerous citations in the literature.

The Institute is today in a continuous process of development. It has a well developed infrastructure and qualified research personnel, which allows to obtain remarkable results in the studied domains.

As a homage to the memory of the one who created the Cluj-Napoca school of Numerical Analysis and Approximation Theory, and who served it with devotion and knowledge for 25 years, the Institute bears in his honor the name of Tiberiu Popoviciu.

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