

FIEDLER Miroslav, Prof., RNDr., DrSc.

Born April 7, 1926 in Prague



- Linear and numerical algebra
- Member of *Learned Society* since 1997

Educational and professional preparation:

- 1945, graduated, Vančura academic secondary school, Prague-Smíchov;
- 1945-1950, Faculty of Science, Charles University;
- 1950, RNDr.;
- 1955, CSc., Institute of Mathematics, Czechoslovak Academy of Sciences;
- 1963 DrSc., CSAS;
- 1965, Professor of Mathematics, Charles University

Employment academic positions:

- 1952-1991, Institute of Mathematics, CSAS;
- 1992, pensioner;
- 1993-present, Institute of Computer Science, AS CR (part time)

Membership in selected domestic scientific bodies:

- 1979-1991, Chairman, Czechoslovak Mathematical Committee
- 1994-1999, Chairman, Czech Mathematical Committee
- 1978-1998, Chairman, Committee for Defence of Doctor's Theses
- 1970-1998, Vice-Chairman, Central Committee for the Mathematical Olympiad (currently member)
- 1978-present, Editor-in-Chief, *Czechoslovak Mathematics Journal*

Membership and positions in selected international organizations and societies:

- 1978, Member, International Linear Algebra Society
- 2000, Member, American Mathematical Society
- Member, editorial boards of journals: *Linear Algebra and Its Applications* (U.S.A.), *Electronic Journal of Linear Algebra* (Israel), *Numerische Mathematik* (FRG), *Mathematica Slovaca* (SR).

Notable awards:

- 1978, National Prize (together with V. Pták), Czech National Council
- 1986, B.Bolzano Gold Medal, CSAS;
- 1993, Hans Schneider Prize, International Linear Algebra Society
- 1996, Gold Plaque, Juraj Hronec, CSAS
- 2003, Gold Medal Faculty of Sciences, P. J. Šafárik University, Košice

Selected publications:

- *Special Matrices and Their Applications in Numerical Mathematics*. Martinus Nijhoff Publishers, Dordrecht 1986
- Über qualitative Winkeleigenschaften der Simplexe. *Czechoslovak Math. J.* **7**(82), 463-478 (1957)
- On matrices with non-positive off-diagonal elements and positive principal minors (with V. Pták). *Czechoslovak Math. J.* **12**(87), 382-400 (1962)
- Generalized norms of matrices and the location of the spectrum (with V. Pták). *Czechoslovak Math. J.* **12**(87), 558-571 (1962)
- Matrix inequalities. *Num. Math.* **9**, 109-119 (1966)
- Algebraic connectivity of graphs. *Czechosl. Math. J.* **23**(98), 298-305 (1973)
- Eigenvalues of nonnegative symmetric matrices. *Linear Algebra Appl.* **9**, 119-142 (1974)
- *Spectral properties of real Hankel matrices*. In: *Structured Matrices in Mathematics, Computer Science and Engineering, Vol. 1*, (V. Olshevsky, Ed.). AMS, Contemporary Mathematics **280**, 313-320 (2001)
- Generalized totally nonnegative matrices (with T. L. Markham). *Linear Algebra Appl.* **345**, 9-28 (2002)