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HEREDITARNIA OF PETER MIHÓK

Gabriel Semanišin
Institute of Computer Science, P.J. Šafárik University, Faculty of Science, Košice, Slovakia

Peter Mihók (*2.4.1949 - †27.03.2012) was a Slovak mathematician who admired Cracow and liked his colleagues from AGH. He published more than 60 original scientific papers in the area of Graph Theory. During his PhD study he started to deal with various generalisations of proper vertex colourings of graphs. Later on he developed the concept of reducible and irreducible hereditary properties of graphs. He proved that these properties form a complete and distributive lattice with quite interesting internal structure. It inspired him to formulate many intriguing problems and conjectures. Among them we can mention Path Partition Conjecture, Path Kernel Conjecture and Minimal Reducible Bound Problem.

For many years, his favourite problem was the Problem of the Factorisation of Hereditary Properties of Graphs into Irreducible Factors. The basic version of the problem was solved in 1997.

P. Mihók was dealing with applications of Discrete Mathematics to computer science as well. He was interested in Formal Concept Analysis, information systems development and utilisation of electronic signature.

Among his favorite collaborators we can find e.g. M. Borowiecki, I. Broere, A. Berger, J. Bucko, A. Farrugia, M. Frick, J. Kratochvíl, A. Kemnitz, I. Schiermeyer, R. Vasky, M. Woźniak.

In our talk we shall survey some more or less know results of Peter Mihók.