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LECTURE NOTES IN COMPUTER SCIENCE

Mathematical Foundations of Computer Science. 3rd Symposium at Jadwisin near Warsaw, June 17—22, 1974. Edited by A. Blikle, Springer-Verlag, Berlin, Heidelberg, New-York, 1975.

These proceedings are based on the papers presented at the 3rd Symposium on Mathematical Foundations of Computer Science held in Jadwisin near Warsaw, June, 17—22, 1974. The Symposium was organized by the Computation Center of the Polish Academy of Sciences and sponsored by the International Mathematical Stefan Banach Center in Warsaw. The Symposium was a continuation of the other international Symposia of the same name.

1st Symposium on Mathematical Foundations of Computer Science-Called in short MFCS—72-held in Jablonna near Warsaw, August 21—27, 1972.

2rd Symposium on Mathematical Foundations of Computer Science-Called in short MFCS-73-held in High Tetras (Czechoslovakia), September, 3—8, 1973.

Proceedings of these symposia have been published informally as technical reports and have been distributed only among the participants. The MFCFS—73 Proceedings is expected to be republished in the Lecture Notes in Computer Science.

The number of MFCS-74 papers distributed on various domains were:

Automata Theory	10 papers
Computing Systems	7 papers
Cooperating Processes and Simulation	4 papers
Formal Language	8 papers
Mathematical Aspects of Application Methodology	3 papers
Theory of Programs	12 papers
	total 44 papers

In most of papers the problems are rigurously tackled and they try to generalize some of the methods. For example, it is worth mentioning the rigurous definition given to simulation and the establishment of the algebraic characteristics of simulation ("Simulation" by A. Skowron), the application of the category theory to the programming ("Algebraic Models I" by Hans-Jurgen Hoenke), the axiomatization of problems connected with languages, the application of the fuzzy sets in the automata theory, etc.

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