Zdzisław Pawlak (1926-2016)

A pioneering researcher with generous spirit and creative work in many areas such as mathematics (famous "rough set theory"), approximate reasoning, intelligent systems, computing models, molecular computing, pattern recognition. All research achievements have influenced many researchers worldwide. He was not "narrow" scientist and paid attention to the philosophy, art and poetry as well.

Education:

-1947 studies in the Faculty of Electrical Engineering at Łódź University of Technology
-1949-1951 continued his studies in the Telecommunication Faculty at Warsaw University of Technology
-1958 doctoral degree from the Institute of Fundamental Technological Research at the Polish Academy of Sciences
-1963 habilitation "Organization of Address-Less Machines" from the Institute of Mathematics at the Polish Academy of Sciences (PAS)

Professional life:

-1950 project of the computer GAM 1.
-1957–1959 member of a research team in technical University of Warsaw that constructed computer UMC 1 (based on negative2 digital system)
-1963-the Institute of Mathematics at Warsaw University
-1986-1996 director of the Institute of Computer Science of the Warsaw University of Technology
-1985-2006 the head of a research group at the Institute of Theoretical and Applied Informatics at the PAS

Main scientific achievements:

- 1960s new formal model of a computing machine ("Pawlak machine") different from „Turing machine" and "von Neumann architecture"
- 1965 foundations for modeling DNA and for molecular computing
- 1973 knowledge representation systems (classifying objects with their attributes, approximation spaces)
- 1980s rough sets theory and a new approach to conflict analysis.

Selected scientific works:

- *Rough Sets. Algebraic and Topological Approach*.. Institute of Computer Science Polish Academy of Sciences, ICS PAS Reports 482, Warsaw (1982) 1-32
- *Rough Sets.* International Journal of parallel programming 11(5) 341-356
- *Some Remarks on Conflict Analysis*, European Journal of Operational Research, Vol. 166, pp. 649-654, 2005
- *Orthodox and Non-orthodox Sets: Some Philosophical Remarks*, Foundations of Computing and Decision Sciences, Vol. 30, No. 2, pp. 133-140, 2005

Zdzisław Pawlak was only one Polish computer scientist listed in the "Science Citation Index" (1965 - 2001) with over 1000 citations in world publications.

Based on:

-*Zdzisław Pawlak life and work* (1926–2006) James F. Peters, Andrzej Skowron, Information Sciences 177 (2007)
-*Zdzisław Pawlak, Databases and Rough Sets.*V. W. Marek, Department of Computer Science University of KentuckyLexington, KY 40506

worked out by **Zygmunt Ryznar**