

3. Paweł Wiszenko and Jan Mulawka: **A hybrid system to support stock market decisions**

This paper concerns the issues of investing in the stock market using artificial intelligence tools. Its aim is to present a new hybrid system to support stock market decisions. It describes in detail a combination of two popular technical indicators: Average Directional Index (ADX) and Relative Strength Index (RSI). This paper also focuses on chosen artificial intelligence tools such as fuzzy logic and artificial neural networks. The proposed solution combines all these tools into one hybrid system. On the basis on their predictions the system suggests purchase of the shares, their sale or refraining from action. A series of experiments has also been conducted in order to verify the decisions proposed by the system. After analysing the results it has been decided that the created application can be a useful tool to support stock market decisions.