# Artificial Intelligence in Medicine and Health Care: Opportunity and/or Threat?

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The aim of the presentation is to introduce the most frequently used AI methods in medical applications. There are many successful applications that help in the decision support process, in particular in processing complex multidimensional heterogeneous and/or long-term data. Image processing is another application area where AI helps. On the other side, failures appear in AI methods applications. In recent years, deep learning became very popular and to a certain extend it delivered promising results. However, it has certain flaws that might lead to misclassification. The correct methodological steps in design and implementation of selected methods to data processing will be presented together with examples of their use in particular medical domains.