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How intelligent are "intelligent" hearing aids? An update

Modern hearing systems have achieved amazing levels of complexity and performance. For several years now, there have been industry publications in which statements can be found that modern hearing systems are equipped with (artificial) intelligence. This presentation will examine the extent to which these theses can be confirmed. On the one hand, an attempt will be made to compare the computing power of modern hearing systems with other (biological) systems using a "quantitative" approach. On the other hand, the following questions should be examined: What actually is (artificial) intelligence? Can common definitions of "intelligence" and "artificial intelligence" be applied to modern hearing systems? What does this mean for the future of hearing aids?