

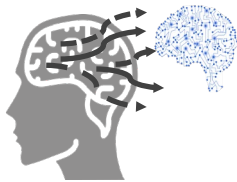
Making the right decisions

Across Europe, 3 out of 4 patients who die after a surgery at no point receive intensive care. Many of these patients would have benefitted from the higher level of care and surveillance offered by intensive care units. As the number of beds in the intensive care unit is limited, our cooperation partner, the [Charité Universitätsmedizin Berlin](#), was faced with the question of how to support physicians in deciding whether patients should be admitted to the intensive care unit after surgery.

Our approach: Augmented Intelligence

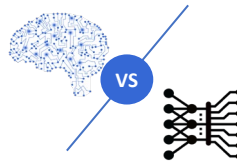
Cognitive algorithms

Our expertise in cognitive and behavioral sciences allows us to identify transparent and intuitively interpretable decision algorithms based on cutting edge science and methods from cognitive field research (such as expert interviews).



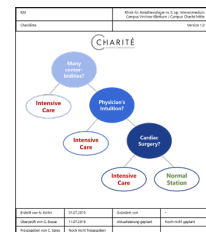
Latest Machine Learning methods

We then test our intuitive algorithms, such as simple decision trees, for their predictive performance against the latest models from machine learning. Here, our model had a similar predictive accuracy as more complex "black box" models.



Simple implementation

Unlike black box models, our tool can be very easily implemented (e.g., in the form of a pocket card) with minimal training, does not have high infrastructural requirements, and does not disrupt existing processes.



Benefits of Augmented Intelligence

- 1 High predictive / diagnostic accuracy
- 2 Physicians' expertise can be integrated with artificial intelligence in decision making
- 3 Intuitive to understand and simple use
- 4 Easy to explain and implement



Would you also like to combine the expertise of your employees with the latest methods of artificial intelligence? We would be happy to support you.

kontakt@simplyrational.de