



BA/MA/SA/GA:

Smartwatches in the Pool

Smartwatches are getting more common and sophisticated. They include an array of sensors, and can sometimes even measure your heart rate and position.

Ever since waterproof smartwatches have become available, triathletes and open water swimmers have enjoyed the possibility to measure swim distances and times during training. In the pool such watches however still show poor performance. In this thesis we are interested in using sensor measurements of smartwatches to exploit their potential in a swimming pool. We want to see if it is possible to reliably count laps, the number of strokes and measure the time per lap. Can we maybe even classify the styles? Or follow a workout?

If this sounds interesting to you, please do not hesitate to contact us so we can have a chat. We would like to hear your ideas on this topic as well!

Requirements: Creativity and programming skills are an advantage. Some experience with Machine Learning. The student(s) should be able to work independently!

Interested? Please contact us for more details!

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