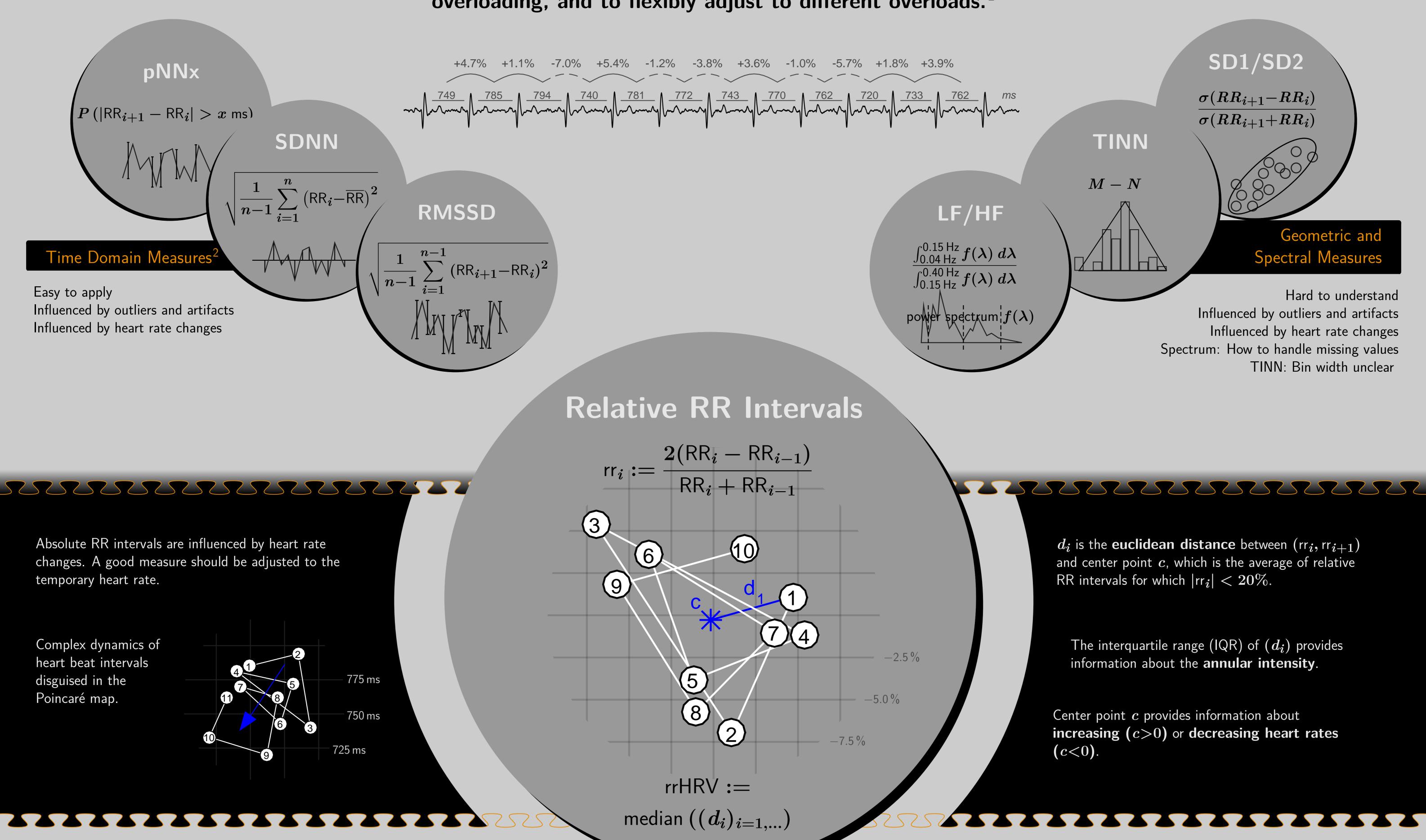
A robust, simple and reliable measure of Heart Rate Variability using relative RR intervals

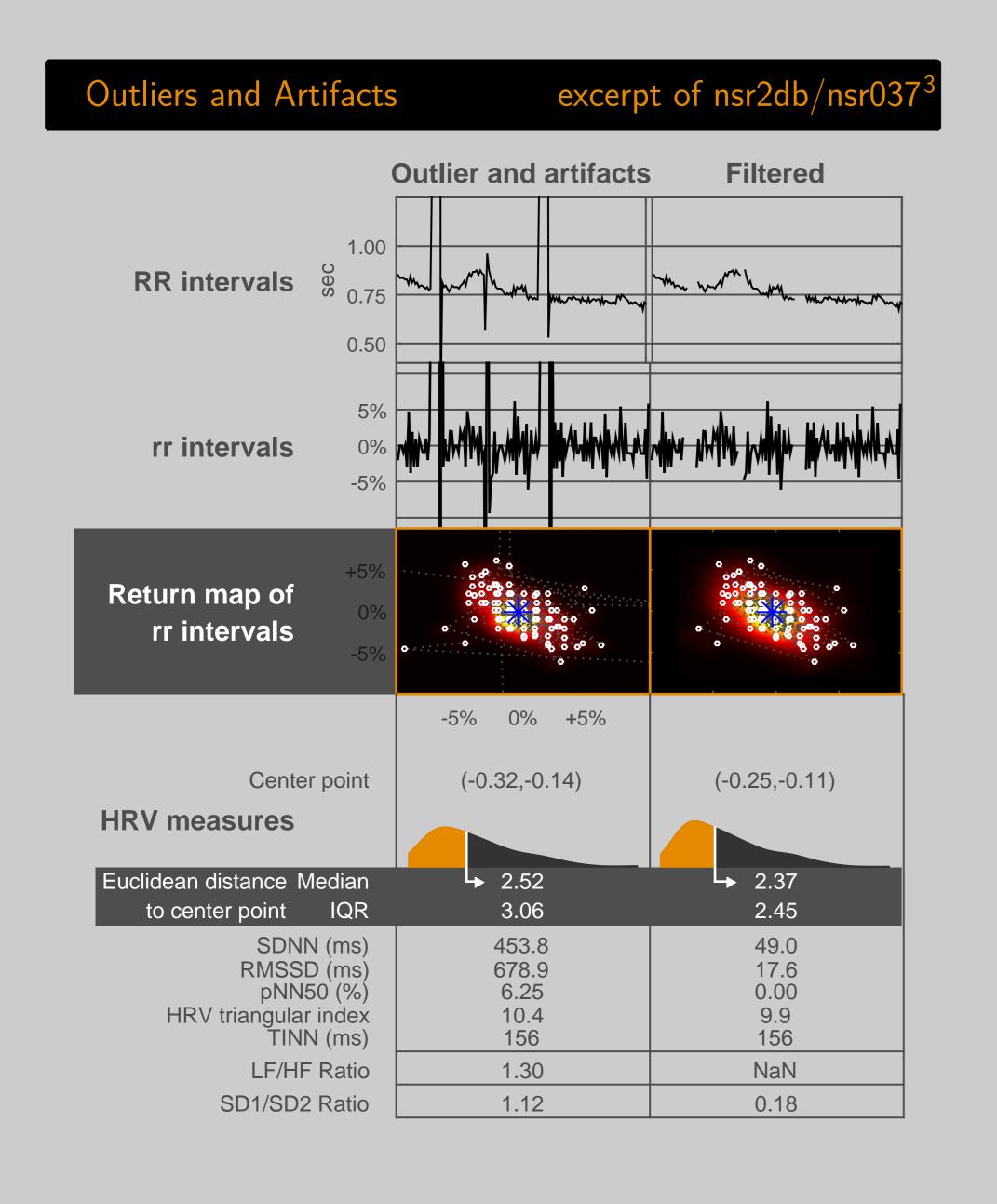
Marcus Vollmer

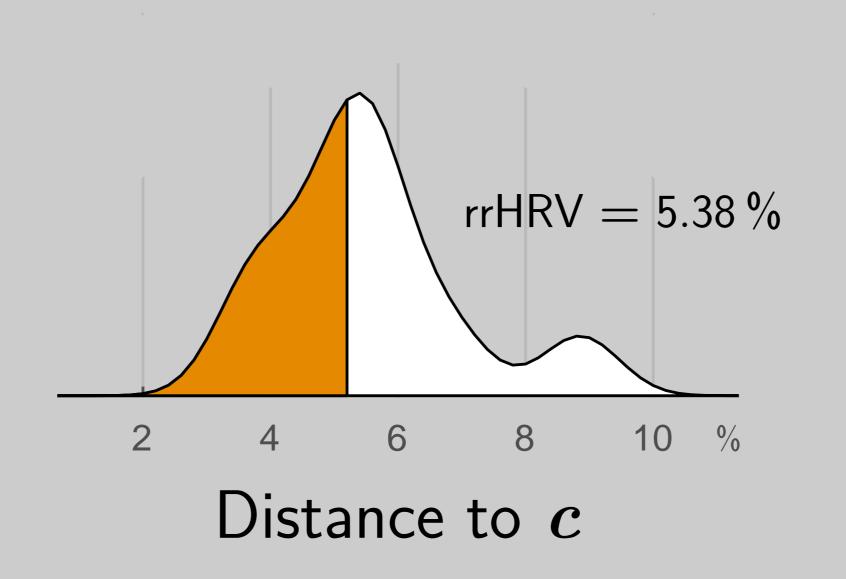
Department of Mathematics and Computer Science University of Greifswald, Germany

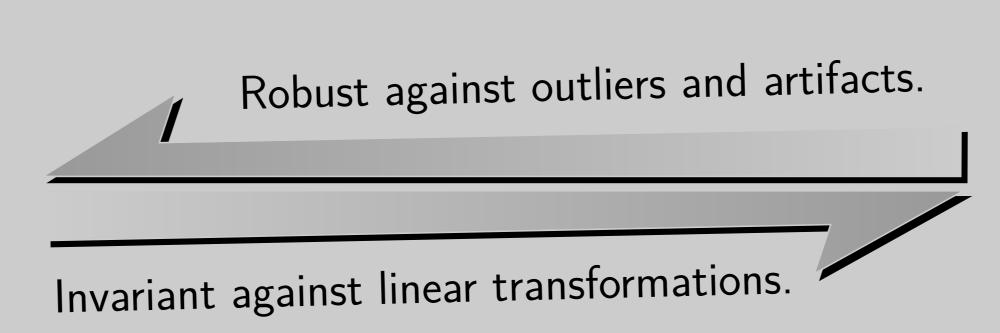
Heart Rate Variability

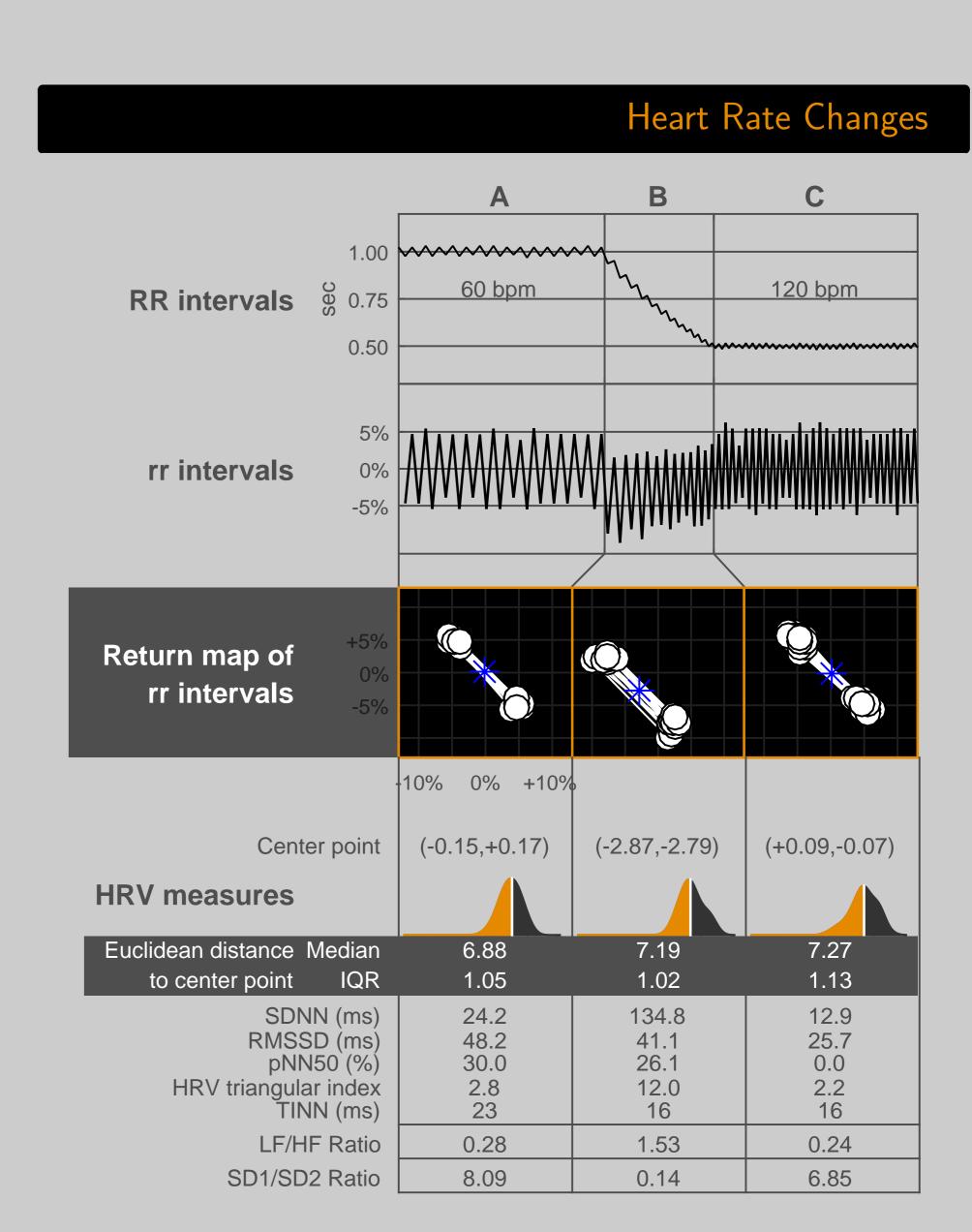
Heart Rate Variability (HRV) characterizes the variation of the heart rate when analyzing successive cardiac cycles over a fixed measuring period. HRV is a measurand of the neurovegetative activity and autonomic function of the heart and describes the ability of the heart to change time intervals from one heart beat to the next, continually and without overloading, and to flexibly adjust to different overloads.¹



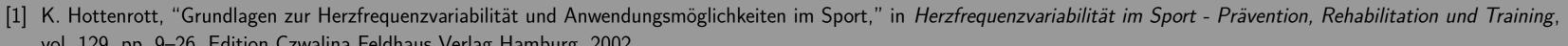












vol. 129, pp. 9-26, Edition Czwalina Feldhaus Verlag Hamburg, 2002.

^[2] M. Malik, J. T. Bigger, A. J. Camm, R. E. Kleiger, A. Malliani, A. J. Moss, and P. J. Schwartz, "Heart rate variability," European Heart Journal, vol. 17, no. 3, pp. 354–381, 1996. [3] A. L. Goldberger, L. A. N. Amaral, L. Glass, J. M. Hausdorff, P. C. Ivanov, R. G. Mark, J. E. Mietus, G. B. Moody, C.-K. Peng, and H. E. Stanley, "PhysioBank, PhysioToolkit, and PhysioNet: Components of a new research resource for complex physiologic signals," Circulation, vol. 101, no. 23, pp. e215-e220, 2000 (June 13).