

References

- [Bai et al., 2017] Bai, Y., Do, D., Ding, Q., Palacios, J. A., Shahriari, Y., Pelter, M. M., Boyle, N., Fidler, R., and Hu, X. (2017). Is the Sequence of SuperAlarm Triggers More Predictive Than Sequence of the Currently Utilized Patient Monitor Alarms? *IEEE Transactions on Biomedical Engineering*, 64(5):1023–1032.
- [CAST Investigators, 1989] CAST Investigators (1989). Effect of Encainide and Flecainide on Mortality in a Randomised Trial of Arrhythmia Suppression After Myocardial Infarction. *The New England Journal of Medicine*, 321(6):406–412.
- [De Oliveira et al., 2008] De Oliveira, L., Andreão, R., and Sarcinelli-Filho, M. (2008). Classification of premature ventricular beat using Bayesian networks. In *HEALTHINF 2008 - 1st International Conference on Health Informatics, Proceedings*.
- [de Oliveira et al., 2011] de Oliveira, L. S. C., Andreao, R. V., and Sarcinelli-Filho, M. (2011). Premature Ventricular beat classification using a dynamic Bayesian Network. *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference*, 2011:4984–4987.
- [Drew et al., 2014] Drew, B. J., Harris, P., Zègre-Hemsey, J. K., Mammone, T., Schindler, D., Salas-Boni, R., Bai, Y., Tinoco, A., Ding, Q., and Hu, X. (2014). Insights into the problem of alarm fatigue with physiologic monitor devices: A comprehensive observational study of consecutive intensive care unit patients. *PLoS ONE*, 9(10).
- [Goldberger et al., 2000] Goldberger, A. L., Amaral, L. A. N., Glass, L., Hausdorff, J. M., Ivanov, P. C., Mark, R. G., Mietus, J. E., Moody, G. B., Peng, C.-K., and Stanley, H. E. (2000). PhysioBank, PhysioToolkit, and PhysioNet : Components of a New Research Resource for Complex Physiologic Signals. *Circulation*, 101(23):e215–e220.
- [Goodfellow, Ian, Bengio, Yoshua, Courville, 2016] Goodfellow, Ian, Bengio, Yoshua, Courville, A. (2016). Deep Learning. *MIT Press*.
- [Graham et al., 2015] Graham, R., Mccoy, M. A., and Schultz, A. M. (2015). *Strategies to Improve Cardiac Arrest Survival : A Time to Act*.
- [Hu et al., 2012] Hu, X., Sapó, M., Nenov, V., Barry, T., Kim, S., Do, D. H., Boyle, N., and Martin, N. (2012). Predictive combinations of monitor alarms preceding in-hospital code blue events. *Journal of Biomedical Informatics*, 45(5):913–921.
- [IBISWorld, 2018a] IBISWorld (2018a). US INDUSTRY REPORTS (NAICS) – Hospitals.

- [IBISWorld, 2018b] IBISWorld (2018b). US INDUSTRY REPORTS (NAICS) – Medical Device Manufacturing.
- [Isin and Ozdalili, 2017] Isin, A. and Ozdalili, S. (2017). Cardiac arrhythmia detection using deep learning. In *Procedia Computer Science*, volume 120, pages 268–275.
- [Jun et al., 2017] Jun, T. J., Park, H. J., Minh, N. H., Kim, D., and Kim, Y. H. (2017). Premature ventricular contraction beat detection with deep neural networks. In *Proceedings - 2016 15th IEEE International Conference on Machine Learning and Applications, ICMLA 2016*, pages 859–864.
- [Krizhevsky et al., 2012] Krizhevsky, A., Sutskever, I., and Hinton, G. E. (2012). Alexnet. *Advances In Neural Information Processing Systems*, pages 1–9.
- [Limited, 2018] Limited, D. T. (2018). DeepMind.
- [Maaten and Hinton, 2008] Maaten, L. V. D. and Hinton, G. (2008). Visualizing Data using t-SNE. *Journal of Machine Learning Research* 1, 620(1):267–84.
- [Maier, 2015a] Maier, S. (2015a). Extra Heartbeats Could Be Modifiable Risk Factor for Congestive Heart Failure.
- [Maier, 2015b] Maier, S. (2015b). Extra Heartbeats Could Be Modifiable Risk Factor for Congestive Heart Failure — UC San Francisco.
- [Malmivuo and Plonsey, 1995] Malmivuo, J. and Plonsey, R. (1995). *Bioelectromagnetism*, volume 15.
- [Moody and Mark, 2001] Moody, G. B. and Mark, R. G. (2001). The impact of the MIT-BIH arrhythmia database.
- [Rajpurkar et al., 2017] Rajpurkar, P., Hannun, A. Y., Haghpanahi, M., Bourn, C., and Ng, A. Y. (2017). Cardiologist-Level Arrhythmia Detection with Convolutional Neural Networks. *stanfordmlgroup*.
- [Salas-Boni et al., 2014] Salas-Boni, R., Bai, Y., Harris, P. R. E., Drew, B. J., and Hu, X. (2014). False ventricular tachycardia alarm suppression in the ICU based on the discrete wavelet transform in the ECG signal. *Journal of Electrocardiology*, 47(6):775–780.
- [Salas-Boni et al., 2015] Salas-Boni, R., Bai, Y., and Hu, X. (2015). Cumulative Time Series Representation for Code Blue prediction in the Intensive Care Unit. *AMIA Joint Summits on Translational Science proceedings. AMIA Joint Summits on Translational Science*, 2015:162–7.
- [Service et al., 2013] Service, C., Us, A., and Locations, G. (2013). Insights & Publications How big data can revolutionize pharmaceutical R & D. *McKinsey Global Institute*, pages 1–5.

- [Shahriari et al., 2017] Shahriari, Y., Fidler, R., Pelter, M., Bai, Y., Villaroman, A., and Hu, X. (2017). Electrocardiogram Signal Quality Assessment Based on Structural Image Similarity Metric. *IEEE Transactions on Biomedical Engineering*.
- [Snow et al., 2008] Snow, R., O’Connor, B., Jurafsky, D., and a.Y. Ng (2008). Cheap and fastbut is it good?: evaluating non-expert annotations for natural language tasks. *Proceedings of the Conference on Empirical Methods in Natural Language Processing*, (October):254–263.
- [Szegedy et al., 2015] Szegedy, C., Liu, W., Jia, Y., Sermanet, P., Reed, S., Anguelov, D., Erhan, D., Vanhoucke, V., and Rabinovich, A. (2015). Going deeper with convolutions. In *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, volume 07-12-June, pages 1–9.
- [Wallis, 2010] Wallis, L. (2010). Alarm Fatigue Linked to Patient’s Death. . *American Journal of Nursing*, 110(7):16.
- [Winters et al., 2018] Winters, B. D., Cvach, M. M., Bonafide, C. P., Hu, X., Konkani, A., O’Connor, M. F., Rothschild, J. M., Selby, N. M., Pelter, M. M., McLean, B., and Kane-Gill, S. L. (2018). Technological Distractions (Part 2): A Summary of Approaches to Manage Clinical Alarms with Intent to Reduce Alarm Fatigue.
- [yan Zhou et al., 2017] yan Zhou, F., peng Jin, L., and Dong, J. (2017). Premature ventricular contraction detection combining deep neural networks and rules inference. *Artificial Intelligence in Medicine*, 79:42–51.

□