# BIBLIOGRAPHY

[1] E. Balestrieri, L. De Vito, F. Picariello, and I. Tudosa. A novel method for compressed sensing based sampling of ecg signals in medical-iot era. In *2019 IEEE International Symposium on Medical Measurements and Applications (MeMeA)*, pages 1–6, 2019. doi: 10.1109/MeMeA.2019.8802184.

[2] R. G. Baraniuk. Compressive sensing [lecture notes]. *IEEE Signal Processing Magazine*, 24(4):118–121, 2007. doi: 10.1109/MSP.2007.4286571.

[3] D. Craven, B. McGinley, L. Kilmartin, M. Glavin, and E. Jones. Compressed sensing for bioelectric signals: A review. *IEEE Journal of Biomedical and Health Informatics*, 19(2):529–540, 2015. doi: 10.1109/JBHI.2014.2327194.

[4] P. Daponte, L. De Vito, E. Picariello, and S. Rapuano. Impact of reconstruction algorithms on dynamic ecg compressed sensing. In *2021 IEEE International Symposium on Medical Measurements and Applications (MeMeA)*, pages 1–6, 2021. doi: 10.1109/MeMeA52024.2021.9478694.

[5] L. De Vito, E. Picariello, F. Picariello, S. Rapuano, and I. Tudosa. A dictionary optimization method for reconstruction of ecg signals after compressed sensing. *Sensors*, 21(16), 2021. ISSN 1424-8220. doi: 10.3390/s21165282. URL `https://www.mdpi.com/1424-8220/21/16/5282`.

[6] J. Ding, D. Bao, Q. Wang, X. He, H. Bai, and S. Li. A novel multi-dictionary framework with global sensing matrix design for compressed sensing. *Signal Processing*, 152: 69–78, 2018. ISSN 0165-1684. doi: https://doi.org/10.1016/j.sigpro.2018.05.012. URL `https://www.sciencedirect.com/science/article/pii/S0165168418301725`.

[7] H. Djelouat, X. Zhai, M. Al Disi, A. Amira, and F. Bensaali. System-on-chip solution for patients biometric: A compressive sensing-based approach. *IEEE Sensors Journal*, 18(23):9629–9639, 2018. doi: 10.1109/JSEN.2018.2871411.

[8] M. A. Elaveini, T. Deepa, and N. Bharathiraja. Compressive sensing of natural images with hybrid transform based sensing matrix. In *2023 3rd International Conference on Intelligent Technologies (CONIT)*, pages 1–5, 2023. doi: 10.1109/CONIT59222.2023.10205579.

[9] G. Iadarola, P. Daponte, F. Picariello, and L. De Vito. A dynamic approach for compressed sensing of multi–lead ecg signals. In *2020 IEEE International Symposium on Medical Measurements and Applications (MeMeA)*, pages 1–6, 2020. doi: 10.1109/MeMeA49120.2020.9137307.

[10] A. I. Irawan, N. Sartika, and I. Wahidah. Peka-ortu: Parent health monitoring application. In *2022 8th International Conference on Wireless and Telematics (ICWT)*, pages 1–4, 2022. doi: 10.1109/ICWT55831.2022.9935504.

[11] V. Izadi, P. K. Shahri, and H. Ahani. A compressed-sensing-based compressor for ecg. *Biomedical Engineering Letters*, 10(2):299–307, May 2020. ISSN 2093-985X. doi: 10.1007/s13534-020-00148-7. URL https://doi.org/10.1007/s13534-020-00148-7.

[12] S. Jin, W. Sun, and L. Huang. Joint optimization methods for gaussian random measurement matrix based on column coherence in compressed sensing. *Signal Processing*, 207:108941, 2023. ISSN 0165-1684. doi: https://doi.org/10.1016/j.sigpro.2023.108941. URL https://www.sciencedirect.com/science/article/pii/S0165168423000154.

[13] B. Lal, Q. Li, R. Gravina, and P. Corsonello. Ecg signals analysis based on compressed sensing and learning techniques for heart disease recognition. In *2023 7th International Multi-Topic ICT Conference (IMTIC)*, pages 1–7, 2023. doi: 10.1109/IMTIC58887.2023.10178468.

[14] G. Laudato, R. Oliveto, S. Scalabrino, A. R. Colavita, L. De Vito, F. Picariello, and I. Tudosa. Identification of r-peak occurrences in compressed ecg signals. In *2020 IEEE International Symposium on Medical Measurements and Applications (MeMeA)*, pages 1–6, 2020. doi: 10.1109/MeMeA49120.2020.9137207.

[15] G. Laudato, R. Oliveto, S. Scalabrino, A. R. Colavita, L. De Vito, F. Picariello, and I. Tudosa. Identification of r-peak occurrences in compressed ecg signals. In *2020 IEEE International Symposium on Medical Measurements and Applications (MeMeA)*, pages 1–6, 2020. doi: 10.1109/MeMeA49120.2020.9137207.

[16] Y.-M. Lin, Y. Chen, H.-C. Kuo, and A.-Y. A. Wu. Compressive sensing based ecg telemonitoring with personalized dictionary basis. In *2015 IEEE Biomedical Circuits and Systems Conference (BioCAS)*, pages 1–4, 2015. doi: 10.1109/BioCAS.2015.7348374.

[17] M. Melek and A. Khattab. Ecg compression using wavelet-based compressed sensing with prior support information. *Biomedical Signal Processing and Control*, 68:102786, 2021. ISSN 1746-8094. doi: https://doi.org/10.1016/j.bspc.2021.102786. URL https://www.sciencedirect.com/science/article/pii/S1746809421003839.

[18] C. Meraki. Signal-to-Noise Ratio (SNR) and Wireless Signal Strength. https://documentation.meraki.com/MR/Wi-Fi_Basics_and_Best_Practices/Signal-to-Noise_Ratio_(SNR)_and_Wireless_Signal_Strength. [].

[19] D. Mitra, H. Zanddizari, and S. Rajan. Investigation of kronecker-based recovery of compressed ecg signal. *IEEE Transactions on Instrumentation and Measurement*, 69 (6):3642–3653, 2020. doi: 10.1109/TIM.2019.2936776.

[20] I. Orovic, S. Stanković, and M. Beko. Multi-base compressive sensing procedure with application to ecg signal reconstruction. *EURASIP Journal on Advances in Signal Processing*, 2021(1):18, May 2021. ISSN 1687-6180. doi: 10.1186/s13634-021-00728-4. URL `https://doi.org/10.1186/s13634-021-00728-4`.

[21] E. Picariello, E. Balestrieri, F. Picariello, S. Rapuano, I. Tudosa, and L. D. Vito. A new method for dictionary matrix optimization in ecg compressed sensing. In *2020 IEEE International Symposium on Medical Measurements and Applications (MeMeA)*, pages 1–6, 2020. doi: 10.1109/MeMeA49120.2020.9137165.

[22] L. F. Polanía and R. I. Plaza. Compressed sensing ecg using restricted boltzmann machines. *Biomedical Signal Processing and Control*, 45:237–245, 2018. ISSN 1746-8094. doi: https://doi.org/10.1016/j.bspc.2018.05.022. URL `https://www.sciencedirect.com/science/article/pii/S1746809418301307`.

[23] Z. Yu, Z. Zhao, Q. Tian, J. Guo, X. Huang, and X. Gu. An improved measurement matrix generator for compressed sensing of ecg signals. *Electronics*, 11(22), 2022. ISSN 2079-9292. doi: 10.3390/electronics11223784. URL `https://www.mdpi.com/2079-9292/11/22/3784`.

[24] J. Šaliga, I. Andráš, P. Dolinský, L. Michaeli, O. Kováč, and J. Kromka. Ecg compressed sensing method with high compression ratio and dynamic model reconstruction. *Measurement*, 183:109803, 2021. ISSN 0263-2241. doi: https://doi.org/10.1016/j.measurement.2021.109803. URL `https://www.sciencedirect.com/science/article/pii/S0263224121007557`.