

Antidictionary-based cardiac arrhythmia classification for smart ECG sensors

Duforest, Julien; Larras, Benoit; Frappe, Antoine; Deepu, John Deepu; **Märtens, Olev** 2022 IEEE International Symposium on Circuits and Systems (ISCAS) : proceedings 2022 / p. 414-418 : ill <https://doi.org/10.1109/ISCAS48785.2022.9937853> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A DSP-based EBI, ECG and PPG measurement platform

Abdullayev, Anar; Rist, Marek; Märtens, Olev; Metshein, Margus; Larras, Benoit; Frappe, Antoine; Gautier, Antoine; **Min, Mart;** John, Deepu; Cardiff, Barry; **Krivošei, Andrei; Annus, Paul** IEEE transactions on instrumentation and measurement 2023 / art. 2007808, 8 p <https://doi.org/10.1109/TIM.2023.3320771> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ECG classification with event-driven sampling

Saeed, Maryam; **Märtens, Olev;** Larras, Benoit; Frappe, Antoine; John, Deepu; Cardiff, Barry IEEE Access 2024 / p. 25188-25199 <https://doi.org/10.1109/ACCESS.2024.3364115> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Embedded ICG-based stroke volume measurement system : comparison of discrete-time and continuous-time architectures

Gautier, Antoine; Larras, Benoit; **Märtens, Olev;** John, Deepu; Frappe, Antoine IEEE International SOC Conference 2022 / p. 46-51 <https://doi.org/10.1109/SOCC52499.2021.9739386>

Event-driven ECG classification using an open-source, LC-ADC based non-uniformly sampled dataset

Saeed, Maryam; Wang, Qingyuan; **Märtens, Olev;** Larras, Benoit; Frappe, Antoine; Cardiff, Barry; John, Deepu 2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea May 22-28, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISCAS51556.2021.9401333> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Event-driven ECG classification using functional approximation and Chebyshev polynomials

Saeed, Maryam; **Märtens, Olev;** Larras, Benoit; Frappe, Antoine; John, Deepu; Cardiff, Barry 2022 IEEE Biomedical Circuits and Systems Conference (BioCAS), 13-15 Oct. 2022 2022 / p. 595-599 <https://doi.org/10.1109/BioCAS54905.2022.9948612>

Fiducial point estimation solution for impedance cardiography measurements

Märtens, Olev; Metshein, Margus; Abdullayev, Anar; Larras, Benoit; Frappe, Antoine; Gautier, Antoine; Saeed, Maryam; John, Deepu; Cardiff, Barry; Krivošei, Andrei; **Annus, Paul; Rist, Marek** 2022 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) 2022 / Code 180602 <https://doi.org/10.1109/I2MTC48687.2022.9806596> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

The impedance cardiography device : patent application

Märtens, Olev; Abdullayev, Anar; Metshein, Margus; Gautier, Antoine; Frappe, Antoine; **Krivošei, Andrei; Rist, Marek; Annus, Paul;** Larras, Benoit; John, Deepu; Cardiff, Barry 2023 <https://www1.epa.ee/patent/kirjeldus/P202200004.pdf> https://worldwide.espacenet.com/publicationDetails/originalDocument?CC=US&NR=2023320606A1&KC=A1&FT=D&ND=3&date=20231012&DB=&locale=en_EP

Sensor-location-specific joint acquisition of peripheral artery bioimpedance and photoplethysmogram for wearable applications

Metshein, Margus; Abdullayev, Anar; Gautier, Antoine; Larras, Benoit; Frappe, Antoine; Cardiff, Barry; **Annus, Paul; Land, Raul; Märtens, Olev** Sensors 2023 / art. 7111 <https://doi.org/10.3390/s23167111> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Slope-based event-driven feature extraction for cardiac arrhythmia classification

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Study of electrode locations for joint acquisition of impedance- and electro-cardiography signals

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