

Publications

A.C. Linnenbank

- [1] P. Gal, A. C. Linnenbank, A. Adiyaman, J. J. J. Smit, A. R. R. Misier, P. P. H. Delnoy, J. M. de Bakker, and A. Elvan, “Correlation of atrial fibrillation cycle length and fractionation is associated with atrial fibrillation free survival,” *International journal of cardiology*, vol. 187, pp. 208–215, 2015.
- [2] A. C. Linnenbank, “Een pleidooi voor meer slow science (The Post Online),” <https://magazine.thepostonline.nl/auteurs/Andre-Linnenbank/9399/Een-pleidooi-voor-meer-slow-science>.
- [3] A. C. Linnenbank, J. M. de Bakker, and R. Coronel, “How to measure propagation velocity in cardiac tissue: a simulation study,” *Frontiers in physiology*, vol. 5, 2014.
- [4] M. J. van der Horst, W. A. Serdijn, and A. C. Linnenbank, *EMI-Resilient Amplifier Circuits*. Springer, 2014.
- [5] S. P. Krul, V. M. Meijborg, W. R. Berger, A. C. Linnenbank, A. H. Driessen, W.-J. van Boven, A. A. Wilde, J. M. de Bakker, R. Coronel, and J. R. de Groot, “Disparate response of high-frequency ganglionic plexus stimulation on sinus node function and atrial propagation in patients with atrial fibrillation,” *Heart Rhythm*, vol. 11, no. 10, pp. 1743–1751, 2014.
- [6] S. Krul, V. Meijborg, W. Berger, A. Linnenbank, A. Driessen, W. Van Boven, A. Wilde, J. De Bakker, R. Coronel, and J. De Groot, “Disparate response of high frequency ganglionated plexus stimulation on sinus node function and atrial propagation in patients with atrial fibrillation,” in *EUROPEAN HEART JOURNAL*, vol. 35, pp. 946–946, OXFORD UNIV PRESS GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND, 2014.
- [7] B. J. Boukens, M. G. Hoogendijk, A. O. Verkerk, A. C. Linnenbank, P. M. van Dam, C. Remme, J. W. Fiolet, T. Opthof, V. M. Christoffels, and R. Coronel, “Early repolarization in mice causes overestimation of ventricular activation time by the qrs duration,” *Cardiovasc Res.*, vol. 97, pp. 182–91, Jan. 2013.
- [8] T. Oostendorp, P. van Dam, P. Oosterhof, A. Linnenbank, R. Coronel, P. van Dessel, and J. de Bakker, “Validation and clinical application of inverse ecg,” in *Clinical EEG and neuroscience*, vol. 44, p. 21, SAGE Publications, 2013.
- [9] A. C. Linnenbank, “Open brief aan de opleidingsmanager EDI en E-tech van de HvA,” <http://www.bytehouwer.nl/OpenBriefBMTopHvAapr2013.pdf>.
- [10] J. R. de Groot, A. H. Driessen, W. J. van Boven, S. P. Krul, A. C. Linnenbank, W. M. Jackman, G. S. Geuzebroek, and J. M. T. de Bakker, “Epicardial confirmation of conduction block during thoracoscopic surgery for atrial fibrillation—a hybrid surgical-electrophysiological approach,” *Minimally Invasive Therapy & Allied Technologies*, vol. 21, no. 4, pp. 293–301, 2012.

- [11] M. Hardziyenka, M. Campian, A. O. Verkerk, S. Surie, A. C. van Ginneken, S. Hakim, A. C. Linnenbank, H. de Bruin-Bon, L. Beekman, M. van der Plas, C. Remme, van Veen Toon A., P. Bresser, J. M. de Bakker, and H. L. Tan, "Electrophysiologic remodeling of the left ventricle in pressure overload-induced right ventricular failure," *Journal of the American College of Cardiology*, vol. 59, no. 24, pp. 2193–2202, 2012.
- [12] S. Chaldoupi, A. C. Linnenbank, W. F. H., L. Boldt, van Wessel Harry, V. van Driel, P. A. Doevendans, J. M. T. Hauer, Richard N. de Bakker, and P. Loh, "Complex fractionated electrograms in the right atrial free wall and the superior/posterior wall of the left atrium are affected by activity of the autonomic nervous system," *Journal of cardiovascular electrophysiology*, vol. 23, no. 1, pp. 26–33, 2012.
- [13] T. F. Oostendorp, P. F. H. M. van Dessel, R. Coronel, C. N. Belterman, A. C. Linnenbank, I. H. van Schie, A. van Oosterom, P. Oosterhoff, P. M. van Dam, and J. M. T. de Bakker, "Noninvasive detection of epicardial and endocardial activity of the heart," *Netherlands Heart Journal*, vol. 19, no. 11, pp. 488–491, 2011.
- [14] S. P. Krul, A. H. Driessen, W. J. van Boven, A. C. Linnenbank, G. S. Geuzebroek, W. M. Jackman, A. A. Wilde, and J. R. de Groot, "Thoracoscopic video-assisted pulmonary vein antrum isolation, ganglionated plexus ablation, and periprocedural confirmation of ablation lesions: first results of a hybrid surgical-electrophysiological approach for atrial fibrillation," *Circulation: Arrhythmia and Electrophysiology*, vol. 4, no. 3, pp. 262–270, 2011.
- [15] S. P. Krul, A. H. Driessen, V. M. Meijborg, A. C. Linnenbank, A. A. Wilde, J. M. de Bakker, and J. R. de Groot, "High frequency ganglionated plexus stimulation in man does not influence local atrial or pulmonary vein activation patterns," *Circulation*, vol. 124, no. 21 Supplement, p. A16048, 2011.
- [16] A. Elvan, H. T. Sie, A. R. Ramdat Misier, A. C. Linnenbank, P. P. H. Delnoy, and J. M. de Bakker, "Mapping and surgical ablation of focal epicardial left ventricular tachycardia," *Case reports in cardiology*, vol. 2011, 2011.
- [17] S. Chaldoupi, F. Wittkampf, A. Linnenbank, P. Doevendans, H. van Wessel, V. van Driel, A. de Vos, P. Westers, R. Hauer, J. de Bakker, *et al.*, "The influence of the autonomic blockade on atrial electrophysiological properties in patients with idiopathic atrial fibrillation," in *Electrophysiological and Genetic Insights into Atrial Fibrillation*, ch. 2, pp. 21–36, 2011.
- [18] S. Chaldoupi, F. Wittkampf, A. Linnenbank, P. Doevendans, H. van Wessel, V. van Driel, A. de Vos, P. Westers, R. Hauer, J. de Bakker, *et al.*, "Detecting complex fractionated atrial electrograms in atrial fibrillation: Unipolar versus bipolar recordings.," in *Electrophysiological and Genetic Insights into Atrial Fibrillation*, ch. 4, pp. 55–68, 2011.
- [19] A. C. Linnenbank, D. G. Kistemaker, V. M. Meijborg, A. C. van Ginneken, C. Kools, C. Belterman, J. M. de Bakker, and C. E. Conrath, "Simultaneous in vitro recording of electrode position and electrograms," in *V Latin American Congress on Biomedical Engineering CLAIB 2011 May 16-21, 2011, Habana, Cuba*, pp. 924–926, Springer, 2013.
- [20] M. Boulaksil, S. Winckels, M. Engelen, M. Stein, T. A. van Veen, J. Jansen, A. C. Linnenbank, M. F. Bierhuizen, W. A. Groenewegen, M. van Oosterhout, J. Kirkels, N. de Jonge, A. Varr, V. M.A., J. M. T. de Bakker, and H. V. van Rijen, "Heterogeneous connexin43 distribution in heart failure is associated with dispersed conduction and enhanced susceptibility to ventricular arrhythmias," *Eur J Heart Fail.*, vol. 12, no. 9, pp. 913–921, 2010.
- [21] M. G. Hoogendijk, M. Potse, A. C. Linnenbank, A. O. Verkerk, H. M. den Ruijter, S. C. M. van Amersfoort, E. C. Klaver, L. Beekman, C. R. Bezzina, P. G. Postema, H. L. Tan, A. Reimer, A. C. van der Wal, A. Ten Harkel, M. Dalinghaus, A. Vinet, A. A. M. Wilde, J. M. de Bakker, and R. Coronel, "Mechanism of right precordial st-segment elevation in

structural heart disease: excitation failure by current-to-load mismatch.,” *Heart Rhythm*, vol. 7, no. 2, pp. 238–248, 2010.

- [22] P. G. Postema, P. F. H. M. van Dessel, J. A. Kors, A. C. Linnenbank, G. van Herpen, H. J. Ritsema van Eck, N. van Geloven, J. M. T. de Bakker, A. A. Wilde, and H. L. Tan, “Local depolarization abnormalities are the dominant pathophysiologic mechanism for type 1 electrocardiogram in brugada syndrome a study of electrocardiograms, vectorcardiograms, and body surface potential maps during ajmaline provocation.,” *J Am Coll Cardiol.*, vol. 55, no. 8, pp. 789–797, 2010.
- [23] R. Coronel, J. Langerveld, L. V. Boersma, E. F. Wever, L. Bon, P. F. van Dessel, A. C. Linnenbank, S. van Gilst, WH annd Ernst, T. Opthof, and N. M. van Hemel, “Left atrial pressure reduction for mitral stenosis reverses left atrial direction-dependent conduction abnormalities.,” *Cardiovascular research*, vol. 85, no. 4, pp. 711–718, 2010.
- [24] M. J. van der Horst, A. C. Linnenbank, W. A. Serdijn, and J. R. Long, “Systematic design of a transimpedance amplifier with specified electromagnetic out-of-band interference behavior,” *IEEE Transactions on Circuits and Systems I*, vol. 57, no. 3, pp. 530–538, 2010.
- [25] A. Elvan, A. C. Linnenbank, and J. M. de Bakker, “Response to letter regarding article, dominant frequency of atrial fibrillation correlates poorly with atrial fibrillation cycle length,” *Circulation: Arrhythmia and Electrophysiology*, vol. 3, no. 2, pp. e5–e5, 2010.
- [26] A. Elvan, A. C. Linnenbank, M. W. van Bommel, A. R. Misier, and J. M. Beukema, Willem P. de Bakker, “Dominant frequency of atrial fibrillation correlates poorly with atrial fibrillation cycle length,” *Circulation: Arrhythmia and Electrophysiology*, vol. 2, no. 6, pp. 634–644, 2009.
- [27] J. M. de Bakker, M. G. Hoogendijk, A. C. Linnenbank, R. Coronel, A. Vinet, and M. Potse, “Electrogram fractionation due to subepicardial fibrosis is undetectable on endocardial mapping,” *Heart Rhythm*, vol. 6, no. 11, p. 1689, 2009.
- [28] M. Hardziyenka, M. Campian, B. Bouma, A. C. Linnenbank, H. de Bruin-Bon, J. Kloek, A. van der Wal, J. J. Baan, E. de Beaumont, H. J. Reesink, J. M. de Bakker, P. Bresser, and H. L. Tan, “Right-to-left ventricular diastolic delay in chronic thromboembolic pulmonary hypertension is associated with activation delay and action potential prolongation in right ventricle.,” *Circulation: Arrhythmia and Electrophysiology*, vol. 2, no. 5, pp. 555–561, 2009.
- [29] P. M. van Dam, T. F. Oostendorp, A. C. Linnenbank, and A. van Oosterom, “Non-invasive imaging of cardiac activation and recovery,” *Annals of biomedical engineering*, vol. 37, no. 9, pp. 1739–1756, 2009.
- [30] A. C. Linnenbank, S. M. Chaldoupi, M. W. van Bommel, A. Elvan, P. Loh, and J. M. de Bakker, “Detecting complex fractionated atrial electrograms in AF: why bipolar recordings should not be used,” *Heart Rhythm Society meeting*, May 2009. (abstract).
- [31] A. C. Linnenbank, P. van Dam, T. F. Oostendorp, P. Bovendeerd, I. Russel, and M. Potse, “A generic model of overall heart geometry for model based studies of electrical, mechanical, and ion-kinetics aspects of the heart,” in *4th European Congress for Medical and Biomedical Engineering*, pp. 2548–2551, Springer, Nov. 2009.
- [32] A. C. Linnenbank, P. G. Postma, M. G. Hoogendijk, P. F. van Dessel, H. L. Tan, and J. M. de Bakker, “Local filtered QRS duration during sodium-channel blockade in brugada syndrome patients,” in *14th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics*, pp. 282–285, Springer, 2008.

- [33] G. J. Boink, A. O. Verkerk, S. C. van Amersfoort, S. J. Tasserou, R. van der Rijt, D. Bakker, A. C. Linnenbank, J. van der Meulen, J. M. de Bakker, J. Seppen, and H. L. Tan, "Engineering physiologically controlled pacemaker cells with lentiviral HCN4 gene transfer," *The journal of gene medicine*, vol. 10, no. 5, pp. 487–497, 2008.
- [34] M. G. Hoogendijk, M. Potse, A. C. Linnenbank, A. O. Verkerk, H. M. den Ruijter, E. C. Klaver, S. C. M. van Amersfoort, L. Beekman, C. R. Bezzina, A. A. M. Wilde, J. M. de Bakker, and R. Coronel, "Functional conduction block by current-to-load mismatch underlies brugada-type st segment elevation in right-sided structural heart disease," *American Heart Association Scientific Sessions*, 2008. (abstract).
- [35] M. G. Hoogendijk, M. Potse, A. C. Linnenbank, A. O. Verkerk, H. M. den Ruijter, E. C. Klaver, S. C. van Amersfoort, L. Beekman, C. R. Bezzina, A. A. Wilde, *et al.*, "Brugada-type st segment elevation after sodium channel blockade is caused by right ventricular excitation failure in discontinuous myocardium," *Circulation*, vol. 118, no. 18 Supplement, p. S_982, 2008.
- [36] M. Van Bommel, A. Elvan, A. Linnenbank, A. Misier, P. Delnoy, W. Beukema, H. Sie, and J. De Bakker, "Dominant frequency during atrial fibrillation correlates poorly with atrial fibrillation cyclelength," in *EUROPEAN HEART JOURNAL*, vol. 28, pp. 643–643, OXFORD UNIV PRESS GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND, 2007.
- [37] A. C. Linnenbank, A. van Oosterom, T. F. Oostendorp, P. F. van Dessel, A. van Rossum, R. Coronel, H. L. Tan, and J. M. de Bakker, "Relative contribution of heart regions to the precordial eeg. an inverse computational approach," in *11th Mediterranean Conference on Medical and Biomedical Engineering and Computing 2007*, pp. 42–45, Springer, 2007.
- [38] P. G. Postema, H. L. Tan, L. R. Dekker, A. C. Linnenbank, A. A. Wilde, J. M. de Bakker, and P. F. van Dessel, "Right ventricular endocardial mapping in brugada syndrome patients reveals cooperative depolarization and repolarization abnormalities," *Circulation*, vol. 116, no. 16 Supplement, p. II_490, 2007.
- [39] P. G. Postema, P. Van Dessel, J. M. De Bakker, L. R. Dekker, A. C. Linnenbank, A. A. Wilde, and H. L. Tan, "Right ventricular endocardial mapping in brugada syndrome patients reveals prolonged activation and increased electrogram fragmentation," in *EUROPEAN HEART JOURNAL*, vol. 28, pp. 29–29, OXFORD UNIV PRESS GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND, 2007.
- [40] A. C. Linnenbank, A. van Oosterom, T. F. Oostendorp, P. F. van Dessel, A. van Rossum, R. Coronel, H. L. Tan, and J. M. de Bakker, "Non-invasive imaging of activation times during drug induced conduction changes," in *World Congress on Medical Physics and Biomedical Engineering 2006*, pp. 2656–2659, Springer, 2007.
- [41] R. Coronel, J. M. de Bakker, F. J. Wilms-Schopman, T. Opthof, A. C. Linnenbank, C. N. Belterman, and M. J. Janse, "Monophasic action potentials and activation recovery intervals as measures of ventricular action potential duration: experimental evidence to resolve some controversies," *Heart Rhythm*, vol. 3, no. 9, pp. 1043–1050, 2006.
- [42] R. Coronel, S. Casini, T. T. Koopmann, F. J. G. Wilms-Schopman, A. O. Verkerk, J. R. de Groot, Z. Bhuiyan, C. R. Bezzina, M. W. Veldkamp, A. C. Linnenbank, A. C. van der Wal, H. L. Tan, P. Brugada, A. A. M. Wilde, and J. M. T. de Bakker, "Response to letters to the editor by priori et al and fontaine et al.," *Circulation*, vol. 113, no. 16, 2006.
- [43] N. van Hemel, E. Wever, F. Vermeulen, H. van Swieten, J. Defauw, K. Baaten, P. van Dessel, J. de Bakker, J. Kelder, A. Linnenbank, *et al.*, "Selective or aselective surgical resection of post-infarction ventricular tachycardia. does it affect arrhythmia outcome and survival?," in *Exclusion or Targeting*, ch. 15, pp. 211–230, Grafische Producties Budde-Elinkwijk, 2005.

- [44] R. Coronel, S. Casini, T. T. Koopmann, F. J. G. Wilms-Schopman, A. O. Verkerk, J. R. de Groot, Z. Bhuiyan, C. R. Bezzina, M. W. Veldkamp, A. C. Linnenbank, A. C. van der Wal, H. L. Tan, P. Brugada, A. A. M. Wilde, and J. M. T. de Bakker, "Right ventricular fibrosis and conduction delay in a patient with clinical signs of Brugada syndrom: a combined electrophysiological, genetic, histopathologic and computational study," *Circulation*, vol. 112, no. 18, pp. 2769–2777, 2005.
- [45] M. van der Horst, A. C. Linnenbank, and A. van Staveren, "Amplitude modulation detection in single stage negative feedback amplifiers due to interfering out of band signals," *Electromagnetic Compatibility, IEEE Transactions on*, vol. 47, no. 1, pp. 34–44, 2005.
- [46] M. Potse, P. F. van Dessel, A. C. Linnenbank, C. A. Grimbergen, N. M. van Hemel, and J. M. T. de Bakker, "Properties of unipolar electrograms recorded with a multielectrode basket catheter," *Journal of electrocardiology*, vol. 37, no. 1, pp. 1–10, 2004.
- [47] A. C. Linnenbank, R. Coronel, and J. M. T. de Bakker, "Activation sequence in the heart of a Brugada syndrom patient," in *World Congress on Medical Physics and Biomedical Engineering*, Aug. 2003.
- [48] M. Potse, A. C. Linnenbank, and P. F. van Dessel, "QRST nondipolar content and dispersion of repolarization," in *World Congress on Medical Physics and Biomedical Engineering*, Aug. 2003. (abstract).
- [49] M. Potse, A. C. Linnenbank, and P. F. van Dessel, "QRST nondipolar content revisited," in *Proceedings of the XXXth International Congress on Electrocardiology Helsinki*, vol. 5, June 2003.
- [50] M. Potse, A. Linnenbank, A. S. Groenewegen, and C. Grimbergen, "Continuous localization and guided treatment of cardiac arrhythmias," Dec. 2 2003. US Patent 6,658,285.
- [51] E. R. Jessurun, J. M. T. de Bakker, N. M. van Hemel, T. Opthof, A. C. Linnenbank, P. F. van Dessel, J. J. A. M. Defauw, and A. B. de la Riviere, "Right atrial modification of maze surgery does not affect refractoriness and conduction patterns of human lone atrial fibrillation," *Europace*, vol. 5, no. 1, pp. 39–46, 2003.
- [52] E. Jessurun, J. de Bakker, N. van Hemel, P. van Dessel, T. Opthof, A. Linnenbank, and J. Defauw, "The course of intervals and conduction patterns of human lone paroxysmal arterial fibrillation after the right atrial part of the maze iii surgery," *Eindhoven 2002: 100 Years of electrocardiography*, pp. 443–448, 2002.
- [53] M. Potse, R. Hoekema, A. C. Linnenbank, A. SippensGroenewegen, J. Strackee, J. M. T. de Bakker, and C. A. Grimbergen, "Conversion of left ventricular endocardial positions from patient-independent co-ordinates into biplane fluoroscopic projections," *Med. & Biol. Eng. & Comput.*, vol. 40, no. 1, pp. 41–46, 2002.
- [54] M. Potse, A. C. Linnenbank, and C. A. Grimbergen, "Software design for analysis of multichannel intracardial and body surface electrograms," *Computer methods and programs in biomedicine*, vol. 69, no. 3, pp. 225–236, 2002.
- [55] M. Potse, A. Linnenbank, and C. Grimbergen, "Automated generation of isochronal maps in the presence of activation block," *Int J Bioelectromagnetism*, vol. 4, no. 2, pp. 115–6, 2002.
- [56] M. Hocini, S. Y. Ho, T. Kawara, A. C. Linnenbank, M. Potse, D. Shah, P. Jais, M. J. Janse, M. Haissaguerre, and J. M. T. de Bakker, "Electrical conduction in canine pulmonary veins: electrophysiological and anatomic correlation," *Circulation*, vol. 105, no. 20, pp. 2442–2448, 2002.

- [57] M. Potse, A. Linnenbank, P. Van Dessel, A. SippensGroenewegen, and C. Grimbergen, "Integration of body surface mapping and biplane fluoroscopy for guidance of catheter ablation of ventricular tachycardia," *Biomedizinische Technik/Biomedical Engineering*, vol. 46, no. s2, pp. 210–212, 2001.
- [58] M. Potse, A. Linnenbank, A. SippensGroenewegen, and C. Grimbergen, "Continuous localization of ventricular tachycardia exit sites in patients with previous myocardial infarction," *Biomedizinische Technik/Biomedical Engineering*, vol. 46, no. s2, pp. 82–84, 2001.
- [59] P. F. H. M. van Dessel, N. M. van Hemel, J. M. de Bakker, A. C. Linnenbank, M. Potse, E. R. Jessurun, A. SippensGroenewegen, and E. F. Wever, "Relation between body surface mapping and endocardial spread of ventricular activation in postinfarction patient," *J. Cardiovasc. Electrophysiol.*, vol. 12, no. 11, pp. 1232–1241, 2001.
- [60] P. F. H. M. van Dessel, J. M. de Bakker, N. M. van Hemel, A. C. Linnenbank, E. R. Jessurun, and J. J. A. M. Defauw, "Pace mapping of postinfarction scar to detect ventricular tachycardia exit sites and zones of slow conduction," *Journal of cardiovascular electrophysiology*, vol. 12, no. 6, pp. 662–670, 2001.
- [61] T. Kawara, R. Derksen, J. R. de Groot, R. Coronel, S. Tasseron, A. C. Linnenbank, R. N. W. Hauer, H. Kirkels, M. J. Janse, and J. M. T. de Bakker, "Activation delay after premature stimulation in chronically diseased human myocardium relates to architecture of interstitial fibrosis," *Circulation*, vol. 104, no. 25, pp. 3069–3075, 2001.
- [62] A. Linnenbank, P. van Dessel, M. Potse, J. de Bakker, and N. van Hemel, "Localization of late potentials using body surface mapping," *Biomedizinische Technik/Biomedical Engineering*, vol. 46, no. s2, pp. 204–206, 2001.
- [63] M. Potse, A. C. Linnenbank, A. SippensGroenewegen, and C. A. Grimbergen, "Influence of chronic myocardial infarction on exit site localization of ventricular tachycardia using paced body surface map databases," in *Engineering in Medicine and Biology Society, 2000. Proceedings of the 22nd Annual International Conference of the IEEE*, IEEE, July 2000. track 7, poster presentation TU–CXH–32, 10:20–11:30 AM.
- [64] M. Potse, A. C. Linnenbank, A. SippensGroenewegen, and C. A. Grimbergen, "Conversion from left ventricular cylinder coordinates to radiographic projections during ECG-guided catheter ablation of cardiac arrhythmias," in *Engineering in Medicine and Biology Society, 2000. Proceedings of the 22nd Annual International Conference of the IEEE*, vol. 2, pp. 904–907, IEEE, 2000.
- [65] M. Potse, A. C. Linnenbank, H. A. P. Peeters, A. SippensGroenewegen, and C. A. Grimbergen, "Continuous localization of cardiac activation sites using a database of multichannel ECG recordings," *IEEE Trans. Biomed. Eng.*, vol. 47, no. 5, pp. 682–689, 2000.
- [66] R. Derksen, J. R. de Groot, R. Coronel, J. M. T. de Bakker, A. C. Linnenbank, M. Potse, S. Tasseron, and R. N. W. Hauer, "Decremental conduction due to load mismatch in pattern-grown cell cultures," in *European Heart Journal*, vol. 21, p. 238, WB SAUNDERS CO LTD 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND, 2000.
- [67] E. R. Jessurun, J. M. T. de Bakker, N. M. van Hemel, A. C. Linnenbank, J. J. A. M. Defauw, and A. B. de la Riviere, "The role of the atrial modification in MAZE III surgery for lone atrial fibrillation," in *EUROPEAN HEART JOURNAL*, vol. 21, pp. 677–677, WB SAUNDERS CO LTD 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND, 2000.
- [68] M. Potse, A. C. Linnenbank, H. A. P. Peeters, A. SippensGroenewegen, and C. A. Grimbergen, "Continuous localization of cardiac activation sites using a database of multichannel ECG recordings," *IEEE Trans. Biomed. Eng.*, vol. 47, pp. 682–689, May 2000.

- [69] J. M. T. de Bakker, R. Derksen, T. Kawara, S. Tasserou, A. C. Linnenbank, M. Potse, and M. J. Janse, "Load mismatch as a cause of decremental conduction in diseased myocardium," in *Circulation*, vol. 100, pp. 836–836, LIPPINCOTT WILLIAMS & WILKINS 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA, 1999.
- [70] E. R. Jessurun, J. M. T. de Bakker, N. M. van Hemel, A. C. Linnenbank, J. J. A. M. Defauw, and A. Brutel de la Riviere, "Surgical modification of the right atrium for the abolishment of atrial fibrillation with maze III does not affect fibrillation intervals," in *Circulation*, vol. 100 Suppl. I, p. 67, LIPPINCOTT WILLIAMS & WILKINS 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA, 1999. (abstract).
- [71] P. F. van Dessel, N. M. van Hemel, J. M. de Bakker, M. Potse, A. C. Linnenbank, E. R. Jessurun, and J. A. Defauw, "Comparison of simultaneous body surface mapping and 64-electrode endocardial mapping of postinfarction ventricular tachycardia exit," in *Circulation*, vol. 100, pp. 655–656, LIPPINCOTT WILLIAMS & WILKINS 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA, 1999.
- [72] H. A. P. Peeters, A. SippensGroenewegen, E. F. D. Wever, H. Ramanna, A. C. Linnenbank, M. Potse, C. A. Grimbergen, N. M. van Hemel, R. N. W. Hauer, and E. O. Robles de Medina, "Clinical application of an integrated 3-phase mapping technique for localization of the site of origin of idiopathic ventricular tachycardia," *Circulation*, vol. 99, no. 10, pp. 1300–1311, 1999.
- [73] J. R. Willemsen, A. C. Linnenbank, P. F. H. M. van Dessel, M. Potse, C. A. Grimbergen, and N. M. van Hemel, "A new method for detecting late potentials using multichannel ECGs," in *Proc. First Joint BMES/EMBS Conf.*, Oct. 1999.
- [74] J. R. Willemsen, A. C. Linnenbank, M. Potse, and C. A. Grimbergen, "Signal averaging of non-stationary noise," in [*Engineering in Medicine and Biology, 1999. 21st Annual Conference and the 1999 Annual Fall Meeting of the Biomedical Engineering Society*] *BMES/EMBS Conference, 1999. Proceedings of the First Joint*, vol. 2, pp. 1032–vol, IEEE, 1999.
- [75] M. Potse, A. C. Linnenbank, and C. A. Grimbergen, "maplab: An extensible software package for analysis of multichannel ecg recordings," in *Engineering in Medicine and Biology Society, 1998. Proceedings of the 20th Annual International Conference of the IEEE*, pp. 59–62, IEEE, 1998.
- [76] M. Potse, A. C. Linnenbank, P. F. H. M. van Dessel, N. M. van Hemel, and C. A. Grimbergen, "The use of simultaneous multichannel endocardial and surface electrocardiograms for verification of exit site localization using body surface mapping," in *Proc. 20th Annu. Int. Conf. IEEE EMBS*, pp. 75–78, IEEE, 1998.
- [77] A. SippensGroenewegen, H. A. P. Peeters, E. R. Jessurun, A. C. Linnenbank, E. O. Robles de Medina, M. D. Lesh, and N. M. van Hemel, "Body surface mapping during pacing at multiple sites in the human atrium: P-wave morphology of ectopic right atrial activation," *Circulation*, vol. 97, no. 4, pp. 369–380, 1998.
- [78] A. SippensGroenewegen, F. X. Roithinger, H. A. P. Peeters, A. C. Linnenbank, P. R. van Hemel, N. M. Steiner, and M. D. Lesh, "Body surface mapping of atrial arrhythmias: Atlas of paced P wave integral maps to localize the focal origin of right atrial tachycardia.," *Journal of electrocardiology*, vol. 31, pp. 85–91, 1998.
- [79] A. C. Linnenbank, J. G. Snel, M. Hocini, M. Potse, J. M. T. de Bakker, and C. A. Grimbergen, "Display of activation fronts on a 3D reconstruction of the left atrium of a dog," in *Proc. 20th Annu. Int. Conf. IEEE EMBS*, pp. I-90–93, Oct. 1998.

- [80] H. A. P. Peeters, A. SippensGroenewegen, E. F. D. Wever, H. Ramanna, A. C. Linnenbank, C. A. Grimbergen, N. M. van Hemel, R. N. W. Hauer, and E. O. Robles de Medina, "Clinical application of a novel integrated three-phase mapping technique for localization of the site of origin of idiopathic ventricular tachycardia," *J. Am. Coll. Cardiol.*, vol. 31 suppl. A, p. 293A, Feb. 1998. (abstract).
- [81] M. Hocini, J. M. T. de Bakker, A. C. Linnenbank, Y. Ho, M. J. Janse, and M. Haissaguerre, "High resolution mapping of the left atrium and the pulmonary veins during pacing and atrial fibrillation in the isolated canine heart," *Circulation*, vol. 99 Suppl. I, pp. 208–209, 1998. (abstract).
- [82] M. Hocini, J. M. T. de Bakker, A. C. Linnenbank, Y. Ho, M. J. Janse, M. Haissaguerre, and J. Bonnet, "High-resolution mapping of the left atrium and its afferent vessels during pacing and atrial fibrillation in canine hearts," in *Lille*, Apr. 1998.
- [83] M. Potse, A. C. Linnenbank, H. A. P. Peeters, and C. A. Grimbergen, "Nondipolar content of body surface QRS and QRST integral maps," in *World Congress on Medical Physics and Biomedical Engineering*, Sept. 1997.
- [84] M. Potse, A. C. Linnenbank, A. SippensGroenewegen, and C. A. Grimbergen, "Continuous localization of ectopic left ventricular activation sites by means of a two-dimensional representation of body surface QRS integral maps," in *Engineering in Medicine and Biology Society, 1996. Bridging Disciplines for Biomedicine. Proceedings of the 18th Annual International Conference of the IEEE*, vol. 4, pp. 1419–1420, IEEE, 1996.
- [85] A. Latour, C. A. Grimbergen, H. A. P. Peeters, A. C. Linnenbank, and A. Sippens Groenewegen, "Quantitative algorithm for the localization of the origin of ectopic ventricular beats using catheter pace mapping," in *Proc. 18th Annu. Int. Conf. IEEE EMBS*, vol. 3, pp. 1268–1269, IEEE, 1996.
- [86] A. C. Linnenbank, *On-site recording, analysis, and presentation of multichannel ECG data*. PhD thesis, University of Amsterdam, The Netherlands, Aug. 1996. e-mail: a.c.linnenbank@amc.uva.nl.
- [87] C. Grimbergen, A. MettingvanRijn, A. Linnenbank, and A. Kuiper, "Multichannel bio-electric measurement systems with galvanic isolation by an optical fiber link," *TIJDSCHRIFT-NEDERLANDS ELEKTRONICA EN RADIOGENOOTSCHAP*, vol. 61, pp. 133–133, 1995.
- [88] A. C. Linnenbank, A. C. MettingVanRijn, C. A. Grimbergen, and J. M. T. de Bakker, "Choosing the resolution in ad conversion of biomedical signals," in *Intern. Conf. on Electrocardiology*, pp. 198–199, 1995.
- [89] A. C. Linnenbank, H. A. Peeters, A. SippensGroenewegen, N. M. van Hemel, K. Grimbergen, *et al.*, "Body surface mapping guided vt localization: user interface considerations," in *Engineering in Medicine and Biology Society, 1995., IEEE 17th Annual Conference*, vol. 1, pp. 241–242, IEEE, 1995.
- [90] J. G. C. Kemmelings, A. C. Linnenbank, S. L. C. Muilwijk, A. SippensGroenewegen, A. Peper, and C. A. Grimbergen, "Automatic QRS onset and offset detection for body surface QRS integral mapping of ventricular tachycardia," *IEEE Trans. Biomed. Eng.*, vol. 41, no. 9, pp. 830–836, 1994.
- [91] C. A. Grimbergen, A. C. Linnenbank, A. C. MettingVanRijn, and A. Peper, "The implications of skew in multichannel instrumentation," in *World Congress on Medical Physics and Biomedical Engineering*, p. 932, 1994.

- [92] A. C. MettingVanRijn, A. P. Kuiper, A. C. Linnenbank, and C. A. Grimbergen, "Patient isolation in multichannel bioelectric recordings by digital transmission through a single optical fiber," *IEEE Trans. Biomed. Eng.*, vol. 40, pp. 302–308, Mar. 1993.
- [93] S. Muilwijk, A. Sippensgroenewegen, N. van Hemel, A. Wilde, R. Hauer, A. Linnenbank, D. Duren, M. Janse, and A. Dunning, "Ventricular arrhythmias in patients with mitral-valve prolapse-identification of the site of origin using body-surface mapping," in *Circulation*, vol. 86, pp. 584–584, AMER HEART ASSOC, 1992.
- [94] C. A. Grimbergen, A. C. MettingVanRijn, A. P. Kuiper, A. C. Linnenbank, and A. Peper, "Instrumentation for the recording and digital processing of multichannel ECG data," in *Proc. 14th Annu. Int. Conf. IEEE EMBS*, pp. 726–727, 1992.
- [95] J. G. C. Kemmelings, A. C. Linnenbank, S. L. C. Muilwijk, A. SippensGroenewegen, A. Peper, and C. A. Grimbergen, "Automatic QRS detection during body surface mapping of ventricular tachycardia," in *Proc. 14th Annu. Int. Conf. IEEE EMBS*, pp. 561–562, 1992.
- [96] A. C. Linnenbank, J. G. C. Kemmelings, S. L. C. Muilwijk, A. Peper, and C. A. Grimbergen, "An effective compression scheme for multilead ECG signals containing ectopic ventricular activation," in *Proc. 14th Annu. Int. Conf. IEEE EMBS*, vol. 2, pp. 527–528, IEEE, 1992.
- [97] A. C. Linnenbank and E. Furth, "Proofs in an assignment free language," in *Workshop on Assertional Methods* (F. de Boer, A. Ponse, and F. de Vries, eds.), (Amsterdam, The Netherlands), pp. 37–39, CWI/University of Amsterdam, Nov. 1992.
- [98] A. C. Linnenbank, S. L. C. Muilwijk, A. SippensGroenewegen, and C. A. Grimbergen, "Effect of baseline procedures on QRS integral patterns in body surface maps of ventricular tachycardia," in *Proc. 13th Annu. Int. Conf. IEEE EMBS*, pp. 789–790, IEEE, 1991.
- [99] A. C. Linnenbank, A. SippensGroenewegen, and C. A. Grimbergen, "Artificial neural networks applied in multiple lead electrocardiography: rapid quantitative classification of ventricular tachycardia QRS integral patterns," in *Proc. 12th Annu. Int. Conf. IEEE EMBS*, pp. 1461–1462, IEEE, 1990.
- [100] A. C. Linnenbank, A. SippensGroenewegen, and C. A. Grimbergen, "Multiple lead ECG analysis using artificial neural networks: classification of ventricular tachycardia QRS integral patterns compared with correlation coefficients," *Circulation*, vol. 82 Suppl, pp. III–741, 1990. (abstract).
- [101] A. C. Linnenbank, "Software to analyse body surface maps," Master's thesis, University of Amsterdam, The Netherlands, 1989.