

## List of publications



1. **Peter M van Dam** and A van Oosterom. (2003). Atrial Excitation Assuming Uniform Propagation. *Journal of Cardiovascular Electrophysiology* 14(s10), S166-S171.
2. **Peter M van Dam** and A van Oosterom. (2005). Volume conductor effects involved in the genesis of the P wave. *Europace* 7, S30-S38.
3. Adriaan van Oosterom and **Peter M van Dam**. (2005). The intra-myocardial distance function as used in the inverse computation of the timing of depolarization and repolarization. *Computers in Cardiology (A. Murray, Ed.)*, Vol. 32, 567-570. IEEE Computer Society Press, Lyon, France.
4. **Peter M van Dam** and A van Oosterom. (2007). Analyzing the potential of Reveal(R) for monitoring cardiac potentials. *Europace* 9(suppl\_6), vi119-123.
5. **Peter M van Dam**, Thom F Oostendorp and A van Oosterom. (2007). Simulating ECG changes during acute myocardial infarction. *Computers in Cardiology (A. Murray, Ed.)*, Vol. 34. IEEE Computer Society Press, Durham, NC, USA.
6. André C Linnenbank, **Peter M 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. 4th European Congress for Medical and Biomedical Engineering Antwerp, Belgium, November 2008.
7. **Peter M van Dam**, T F Oostendorp, A van Oosterom. Application of the fastest route algorithm in the interactive simulation of the effect of local ischemia on the ECG. *Medical & Biological Engineering & Computing* 2009;47(1):11-20.
8. **Peter M van Dam**, T F Oostendorp, A C Linnenbank, A van Oosterom. Non-Invasive Imaging of Cardiac Activation and Recovery. *Annals of Biomedical Engineering* 2009;37(9):1739-56.
9. **Peter M van Dam**, T F Oostendorp and A van Oosterom. (2009). Non-Invasive Cardiac Imaging Based on Just the Standard 12-Lead Signals? (A. Murray, Ed.), Vol. 36, pp. IEEE Computer Society Press, park City, USA.
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11. Burak Erem, **Peter M van Dam**, A Keely, J G Stinstra, T F Oostendorp, and D H Brooks. Methods for Initialization of activation-based Inverse Electrocardiography using Graphs Derived from heart Surface Geometry. *Computers in Cardiology (Computing in Cardiology)*, Park City, Utah, USA, September 2009.
12. **Peter M van Dam**, T F Oostendorp, A van Oosterom. ECGSIM: Interactive Simulation of the ECG for Teaching and Research Purposes. *Computing in Cardiology* 2010;37:841-4.
13. Nico H L Kuijpers, M Potse, **Peter M van Dam**, H M M ten Eikelder, S Verheule, F W Prinzen. Mechano-electrical coupling enhances initiation and affects perpetuation of atrial fibrillation during acute atrial dilation. *Heart rhythm*: 2011;8(3):429-36.
14. Adriaan van Oosterom, T F Oostendorp, **Peter M van Dam**. Potential applications of the new ECGSIM. *Journal of electrocardiology*. 2011; 44(5):577-83.
15. Burak Erem, D H Brooks, **Peter M van Dam**, J G Stinstra and R S MacLeod. Spatiotemporal estimation of activation times of fractionated ECGs on complex heart surfaces. *IEEE EMBS Conference (EMBC)*, Boston, Massachusetts, USA, September 2011.

16. Burak Erem, **Peter M van Dam** and D H Brooks. Analysis of the Criteria of activation-based inverse Electrocardiography Using Convex Optimization. IEEE EMBS Conference (EMBC), Boston, Massachusetts, USA, September 2011.
17. Adriaan van Oosterom, T F Oostendorp, **Peter M van Dam**. Interactive Simulation of the Activation Sequence: replacing effect by cause. *Computing in Cardiology 2011*; 38:657–660.
18. Willem Dassen, T Arts, **Peter M van Dam**, N H L Kuijpers, E Hermeling, E M van Dam, T Delhaas. The Application of Complex Research Simulation Models in Education; a Generic Approach. *Computing in Cardiology 2011*; 38:465–468.
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21. Bas J Boukens, M G Hoogendijk, A O Verkerk, A C Linnenbank, **Peter M van Dam**, C-A 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, *Cardiovascular Research*, 97 (2013), 182-91.
22. Loriano Galeotti, **Peter M van Dam**, Z Loring, D Chan, and D G Strauss, Evaluating Strict and Conventional Left Bundle Branch Block Criteria Using Electrocardiographic Simulations, *Europace* (2013).
23. **Peter M van Dam**, R Tung, K Shivkumar, M M Laks: Quantitative Localization of Premature Ventricular Contractions using Myocardial Activation ECGI from the Standard 12-Lead Electrocardiogram *Journal of Electrocardiology* 2013; 46(6):574-9.
24. **Peter M van Dam**, K Proniewska, A-M Maugenest, N M van Mieghem, A C Maan: P P T de Jaegere. Electrocardiographic imaging-based recognition of possible induced bundle branch blocks during transcatheter aortic valve implantations. *Europace*. 2014 May 1, 2014;16(5):750-7.
25. Burak Erem, **Peter M van Dam**, D H Brooks. Identifying Model Inaccuracies and Solution Uncertainties in Noninvasive Activation-Based Imaging of Cardiac Excitation Using Convex Relaxation. *IEEE Transactions on Medical Imaging* 2014; 33(4):902-912.
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28. **Peter M van Dam**, J P Gordon, M M Laks, N G Boyle. Development of new anatomy reconstruction software to localize cardiac isochrones to the cardiac surface from the 12 lead ECG. *Journal of Electrocardiology* 2015, 48(6): 959-965.
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32. Potyagaylo D, Doessel O, **Peter M van Dam**. Influence of Modeling Errors on the Initial Estimate for Nonlinear Myocardial Activation Times Imaging Calculated with Fastest Route Algorithm. IEEE Transactions on Biomedical Engineering. 2016;PP(99).
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38. Perez-Alday EA, Thomas JA, Kabir M, Sedaghat G, Rogovoy N, van Dam E, **Peter M van Dam**, Woodward W, Fuss C, Ferencik M, Tereshchenko, Larisa G.. Torso geometry reconstruction and body surface electrode localization using three-dimensional photography. Journal of Electrocardiology. 2018;51(1):60-7.
39. Misra S, **Peter M van Dam**, Chrispin J, Assis F, Keramati A, Kolandaivelu A, et al. Initial validation of a novel ECGI system for localization of premature ventricular contractions and ventricular tachycardia in structurally normal and abnormal hearts. Journal of Electrocardiology. 2018;51(5):801-8.
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42. **Dr. Peter van Dam** – The future of the electrocardiogram; ESC Digital Health Virtual Journal; 2019 Oct. 5<sup>th</sup>; <https://www.escardio.org/Education/Digital-Health-and-Cardiology/Virtual-Journal/Traversing-the-flourishing-environs-of-ESC-Digital-Health/the-future-of-the-electrocardiogram>