

PUBLICATIONS – LEIF SÖRNMO

I. BOOKS

1. O. Pahlm, L. Sörnmo (editors)
Special Methods in Electrocardiography (in Swedish, 202 pages)
Studentlitteratur, Lund, 1998 (ISBN 91-44-00911-9).
2. L. Sörnmo, P. Laguna
Bioelectrical Signal Processing in Cardiac and Neurological Applications (688 pages)
Academic Press Series in Biomedical Engineering, Elsevier, Amsterdam, 2005 (ISBN 0124375529).
3. P. Laguna, L. Sörnmo
Bioelectrical Signal Processing in Cardiac and Neurological Applications–Solutions manual (125 pages)
Available from Elsevier, Amsterdam, 2005.
4. O. Pahlm, L. Sörnmo (editors)
Electrocardiology–Clinical and Technical Aspects (in Swedish, 351 pages)
Studentlitteratur, Lund, 2006 (ISBN 9144006152).
5. L. Mainardi, L. Sörnmo, S. Cerutti (editors)
Understanding Atrial Fibrillation: The Signal Processing Contribution (242 pages).
Morgan Claypool Publishers, San Francisco, 2008 (ISBN 159829296X).
This book can also be purchased electronically, then divided into two parts defined by the chapters 1–4 and 5–8.

II. BOOK CHAPTERS

1. O. Pahlm, L. Sörnmo, "Algorithmic approaches to heart-beat detection" in *Ambulatory Monitoring–Cardiovascular System and Allied Applications*, C Marchesi (ed.), pp. 179–188, Martinus Nijhoff Publishers, 1984.
2. L. Sörnmo, "Late potentials: methods" (in Swedish) in *Specialmetoder inom elektrokardiografi*, O. Pahlm, L. Sörnmo (eds.), pp. 83–93, Studentlitteratur, Lund, ISBN 91-44-00911-9, 1998.
3. A. Lindqvist, U. Niklasson, L. Sörnmo, "Heart rate variability" (in Swedish) in *Specialmetoder inom elektrokardiografi*, O. Pahlm, L. Sörnmo (eds.), pp. 105–143, Studentlitteratur, Lund, ISBN 91-44-00911-9, 1998.
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5. L. Sörnmo, M. Åström, E. Carro, M. Stridh, "Maximum likelihood analysis in ECG signal processing," in *Advances in Noninvasive Electrocardiographic Monitoring Techniques*, H.-H. Osterhues, V. Hombach, A.J. Moss (eds.), Kluwer Academic Publishers, Amsterdam, pp. 463–469, 2000.
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7. L. Sörnmo, "Computerized stress test" in *The Clinical Exercise Test* (in Swedish), O. Pahlm, S.-E. Svensson, B. Wranne (eds.), pp. 105–110, Studentlitteratur, Lund, 2003.
8. S.B. Olsson, C.J. Meurling, L. Sörnmo, M. Stridh, "Dynamics of atrial electrograms in atrial fibrillation," *Dynamic Electrocardiography*, M. Malik, A. J. Camm (eds.), Blackwell Futura Publ. Comp., New York, pp. 486–492, 2004.
9. R. Bailón, L. Sörnmo, P. Laguna, "Estimation of the ECG-derived respiration (EDR) signal from the ECG," *Advanced Methods and Tools for ECG Data Analysis*, G. Clifford, F. Azuaje, P. McSharry (eds.), Artech House, Boston, pp. 215–244, 2006.
10. L. Sörnmo, P. Laguna, "ECG signal processing," *Wiley Encyclopedia of Biomedical Engineering*, Wiley & Sons, vol. 2, pp. 1298–1313, 2006 (also available on-line).
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12. L. Sörnmo, M. Stridh, "Noninvasive signal analysis of atrial fibrillation" (in Swedish), *Elektrokardiologi–Klinik och teknik*, O. Pahlm and L. Sörnmo (eds), Studentlitteratur, Lund, pp. 287–309, 2006.

13. L. Sörnmo, P. Laguna, "Introduction to biomedical signal processing," (in Spanish) *Procesado de señales biomédicas*, P. Carrión, J. Ródenas, J.J. Rieta (eds.), Ediciones de la Universidad Castilla La Mancha, Spain, pp. 7–26, 2007.
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19. V.D.A. Corino, F. Sandberg, F. Lombardi, L.T. Mainardi, L. Sörnmo, "Statistical modeling of atrioventricular nodal function during atrial ibrillation focusing on the refractory period estimation," Lecture Notes", *Lecture notes in Communications in Computer and Information Science*, Springer-Verlag, 2014 (in press).

III. INTERNATIONAL JOURNALS: ORIGINAL PAPERS

1. L. Sörnmo, P.O. Börjesson, M.E. Nygårds, O. Pahlm, "A method for evaluation of QRS shape features using a mathematical model of the ECG," *IEEE Transactions on Biomedical Engineering*, Vol. 28, pp. 713–717, 1981.
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