Closed-Loop Estimation and Control of Blood Glucose - From Theory to Practice

Middelfart, Denmark

August 13, 2008

- Workshop will take the form of a "mini-symposium" attached to a larger meeting in physiological modeling that will take place in Denmark.
- The "larger meeting", BioMedMath 2008, is part of a series of 4 events from 2007 to 2010: each event consists of a summer school and associated workshop on modeling of human physiological systems with medical applications. The events are sponsored by the European Union under the program Marie Curie Conferences and Training Course.
- This event will actually consist of a 10-day summer school followed by 3 days of workshops (workshop alone from Aug.13 through 15).
- The theme of the summer school and workshop will be "Stochastic Differential Equation Models with Applications to the Insulin-Glucose System and Neuronal Modeling".

http://www.math.ku.dk/~susanne/SummerSchool2008/

Tentative Program

1. State of the Art Developments in Realtime Monitoring and Closed-Loop Control of Blood Glucose *(Cesar Palerm, Medtronic)*
2. Model-Based Real-Time Blood Glucose Control *(Robert Parker, University of Pittsburgh)*
3. Nonparametric (Kernel-Based) Nonlinear Modeling of Glucose-Insulin Regulation *(Vasilis Marmarelis, University of Southern California)*
4. Modeling the Interactions Between Metabolic and Cardiorespiratory Control Dysfunction *(Michael Khoo, University of Southern California)*
5. Parameter Estimation Issues in Closed-Loop Modeling *(Jerry Batzel, University of Graz)*