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Since 2008 he collaborated with several Artificial Pancreas projects in the Institute of Automation and Industrial Computing, where he also developed his Ph.D. Thesis. The focus of his research is on modeling of dynamic systems in presence of uncertainty, but his research interests also involve optimization algorithms, constrained identification and physiological modeling. He is author or co-author of four conference papers and four journal papers in peer reviewed publications.

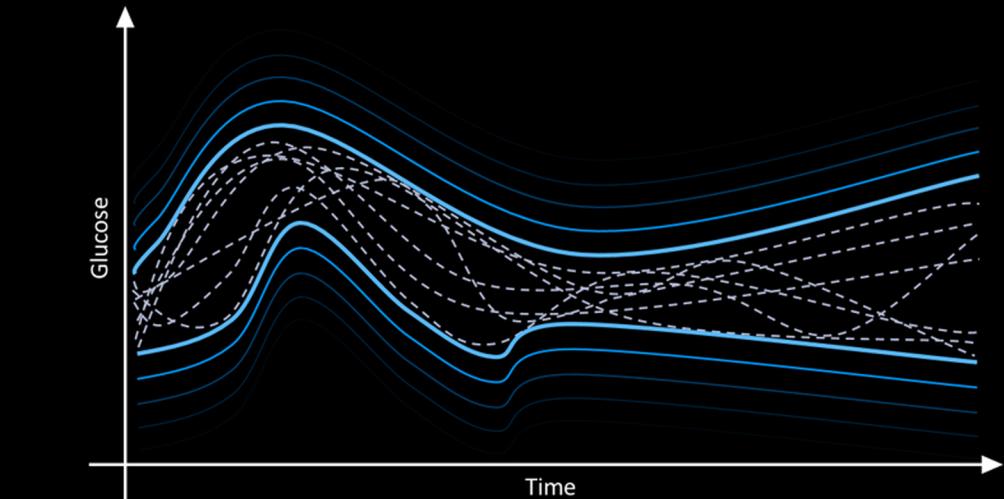
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Ph.D. Dissertation

Alejandro Laguna



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$$\dot{Q}_1(t) = - \left[ \frac{F_{01}^c(t)}{V_g G(t)} + x_1(t) \right] Q_1(t) + k_{12} Q_2(t) - F_R(t) + EGP(t) + G_{ex}(t)$$
$$v = \frac{d[P]}{dt} = \frac{V_{max}[S]}{K_m + [S]}$$

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