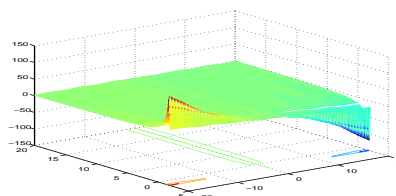
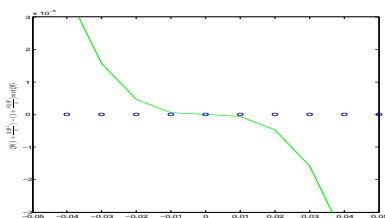


Inverse problem of the continuous-in-time model

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The continuous-in-time model [2, 5, 1] is designed to be used for the finances of local communities. The model contains some financial quantities. For instance, the Algebraic Spending Measure $\tilde{\sigma}$ and Loan Measure $\tilde{\kappa}_E$ to describe payment and loan scheme, respectively. This model allows to set out annual and multiyear budgets for any organization.

We have studied the inverse problem stability in recent works [3, 4, 6, 7]. In particular, the uniqueness theorem is proven, obtaining a procedure for constructing the solution and provide necessary and sufficient conditions for the solvability of the inverse problem in $\mathbb{L}^2([t_I, \Theta_{\max}])$. In this presentation, we give these conditions in which this problem is well-posed in the sense of Hadamard. Further, Loan Density κ_E is determined explicitly in term of density σ .



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