

**Conférence Francophone sur la Modélisation Mathématique en Biologie
et en Médecine – Craiova, 12-14 juillet 2006**

OPTIMAL CONTROL FOR SIZE-STRUCTURED SYSTEMS

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In this presentation I shall introduce a general optimal control problem for a size structured system, where an endogenous growth function depending also on a control function is considered. This kind of problem models the growth of size structured populations as for example trees populations or fish populations etc. The necessary optimality conditions in the form of Pontriaghin's Maximum Principle are derived. Numerical simulations are in working process.

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