The paper deals with initial value problems for desired functions \( u(t, x) \) depending on the time \( t \) and one spacelike variable \( x \). In case the initial function \( \varphi(x) \) satisfies an associated (ordinary) differential equation, the solution \( u(t, x) \) satisfies the associated differential equation for each \( t \). If the general solution of the associated differential equation is known, one gets a system of ordinary differential equations for the desired coefficients depending on \( t \). In any case, the solution can be obtained as fixed point of a related integro-differential operator.