#### NONLINEAR EVOLUTION EQUATIONS THAT ARE NON-LOCAL IN SPACE AND TIME

#### GASTON BELTRITTI AND JULIO D. ROSSI

Americant. We deal with a nonlocal nonlinear evolution problem of the form

$$\iint_{\mathbb{R}^{n} \times \mathbb{R}^{n}} J(x - y, t - s)|\psi(y, s) - \psi(x, t)|^{p-2} (V(y, s) - \psi(x, t)) dy ds = 0$$

for  $(x,t) \in \mathbb{R}^n \times [0,\infty)$ . Here  $p \geq 2$ ,  $J : \mathbb{R}^{n+1} \to \mathbb{R}$  is a nonnegative kernel, compactly supported inside the set  $\{(x,t) \in \mathbb{R}^{n+1} : t \geq 0\}$  with  $\iint_{\mathbb{R}^n \times \mathbb{R}} J(x,t) dx dt = 1$  and v stands for an extension of a given initial value f, that is,

$$V(x, t) = \begin{cases} v(x, t) & t \ge 0, \\ f(x, t) & t < 0. \end{cases}$$

 $\mathbb{P}(x,t) = \left\{ \begin{array}{ll} v(x,t) & t \geq 0, \\ f(x,t) & t < 0. \end{array} \right.$  For this problem we prove existence and uniqueness of a solution. In addition, we show that the solutions approximate viscosity solutions to the local nonlinear PDE  $\|\nabla u\|^{p-2}u_i - \Delta_{p}u$  when the kernel is rescaled in a suitable way.

#### 1. INTRODUCTION

Our main goal in this paper is the study of nonlinear evolution problems that are nonlocal both in space and time. Let  $F(z) = |z|^{p-2}z$  be a power type nonlinearity and let  $J : \mathbb{R}^{n+1} \to \mathbb{R}$ , a nonnegative, continuous kernel, compactly supported in the set  $\{(x,t) \in \mathbb{R}^{n+1} : t \geq 0\}$  with  $\iint_{\mathbb{R}^n \times \mathbb{R}} J(x,t) dx dt = 1$ . We fix an initial condition  $f \in L^{\infty}(\mathbb{R}^n \times (-\infty, 0))$ . Our aim is to look for solutions to the nonlocal nonlinear evolution problem

$$\iint_{\mathbb{R}^n \times \mathbb{R}} J(x-y,t-s)F(\overline{v}(y,s)-v(x,t)) dy ds = 0$$

for  $(x,t) \in \mathbb{R}^n \times [0,\infty)$  where we denoted by v the extension by f for t < 0 of a function v defined for  $t \ge 0$ , that is,

$$\overline{v}(x, t) = \begin{cases} v(x, t) & t \ge 0, \\ f(x, t) & t < 0. \end{cases}$$

This paper can be viewed as a natural continuation of [1] where the linear case p = 2 was considered. Notice that here a solution u verifies a nonlinear mean value formula given by P(J, f).

Our first result deals with existence and uniqueness of solutions. We denote by  $\overline{c}$  the set of uniform continuous functions, and  $L^{\infty}(f)$  stands for the set of bounded functions with norm less or equal than  $||f||_{L^{\infty}(\mathbb{R}^{n}\times I\to\infty,0)}$ .

**Theorem 1.** Let  $J: \mathbb{R}^{n+1} \to \mathbb{R}$  be, nonnegative, continuous and compactly supported in the set  $\{(x,t) \in \mathbb{R}^{n+1} : t \geq 0\}$ , with  $\iint_{\mathbb{R}^n \times \mathbb{R}} J(x,t) dx dt = 1$ . Let  $f \in L^{\infty}(\mathbb{R}^n \times (-\infty,0))$ . Then, there exists a unique  $u \in \overline{\mathcal{C}} \cap L^{\infty}(f)(\mathbb{R}^n \times [0,\infty))$ that solves P(J, f).

We will use the notation u for a solution with initial datum f and we will say that u solves the problem P(J, f). Note that here we assumed that the kernel is nonnegative and integrable (singular kernels are out of the scope of this paper). This fact together with the choice of  $f \in L^{\infty}(\mathbb{R}^n \times (-\infty, 0))$ , makes the space  $\overline{C} \cap L^{\infty}(f)(\mathbb{R}^n \times [0, \infty))$  a natural choice to look for solutions (remark that the integral that appears in P(J, f) is finite under these conditions). Notice that there is a regularizing effect, for  $f \in L^{\infty}(\mathbb{R}^n \times (-\infty, 0))$  we obtain a uniformly continuous solution,  $u \in \mathbb{C} \cap L^{\infty}(f)(\mathbb{R}^n \times [0, \infty))$ . This is due to the fact that we assumed continuity of the kernel J.

We have two different proofs of this existence and uniqueness result. The first one is simpler. We just prove first the result for a class of kernels that are compactly supported in the set  $\{(x,t) \in \mathbb{R}^{n+1} : \delta \leq t \leq \delta + \gamma\}$ , where  $\delta$  and  $\gamma$  are positive numbers, (this allows us to easily obtain existence and uniqueness of solutions in the strip  $t \in [0, \delta)$  and then in  $t \in [\delta, 2\delta]$ , etc.). After that we obtain the result for a general kernel by approximating it with kernels in the previously mentioned class. The second proof is more involved technically and is based on a fixed point argument (we include this proof here since we believe that it has independent interest). This fixed point strategy was used for the

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