## Stability for a Nicholson's equation with mixed monotonicities

Teresa Faria<sup>a</sup> and Henrique Prates<sup>b</sup>

<sup>a</sup>Departamento de Matemática and CMAFCIO, Faculdade de Ciências, Universidade de Lisboa e-mail: teresa.faria@fc.ul.pt

> <sup>b</sup>Faculdade de Ciências, Universidade de Lisboa henrique.cal.prates@gmail.com

**Abstract**: We consider a Nicholson's equation with multiple pairs of time-varying delays, where each nonlinear term incorporates two delays and is given by a mixed monotone function. Sufficient conditions for the permanence and the global attractivity of its positive equilibrium are established. Our criteria depend on the size of some delays and generalize results in recent literature.