



Prof. Dr. Abdelaziz Rhandi

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| Educational Curriculum | <p>1983-1987: Studies of mathematics and physics at Marrakesh</p> <p>June 1987: University Master's degree in mathematics at Marrakesh</p> <p>June 1988: University Diplome des études approfondies de mathématiques et applications (D.E.A) at Besançon University, France</p> <p>Nov. 1990: Ph.D. at Besançon University under the supervision of Prof. W. Arendt.</p> <p>August 1994: Ph.D. at Tübingen University under the supervision of Prof. R. Nagel.</p> |
| Professional Experience | <p>1994 to 1995: Assistant Professor of Mathematics, University of Marrakech</p> <p>1995 to 1999: Associate Professor of Mathematics, University of Marrakech</p> <p>1999 to 2006: Full Professor of Mathematics, University of Marrakech</p> <p>2006-Today: Full Professor of Math. Analysis, University of Salerno</p> <p>2003, 2005, 2010: Alexander von Humboldt Fellow</p> |
| Current research interest | <ul style="list-style-type: none"> - Semigroup theory for evolution equations - Non autonomous differential equations - Elliptic and parabolic differential operators with unbounded coefficients |
| Research methods | <ul style="list-style-type: none"> - PDEs, Spectral theory, Operator theory, Harmonic analysis |
| Publications | <ol style="list-style-type: none"> 1. Unbounded perturbations of the infinitesimal generator domain and applications. <i>Discrete Cont. Dyn. Syst. A.</i> 35 (2015) 703-723 (with S. Hadd and R. Manzo). 2. Flows in networks with delay in the vertices. <i>Math. Nachrichten</i> 285 (2012), 1603-1615 (with F. Bayazit and B. Dorn). 3. The regular linear systems associated with the shift semigroups and application to control linear systems with delay. <i>Math. Control Signals Systems (MCSS)</i> 18 (2006), 272-291 (with S. Hadd and A. Idrissi). |

Title of the talk: Abstract Boundary systems and application to flow in networks with memory

Abstract of the talk: In many cases partial differential equations can be modeled as abstract boundary value problems. Based on the theory of infinite dimensional regular systems we study a class of boundary perturbation problems with distributed and boundary delay terms. As an application we consider a flow in a network with unbounded delays. We prove well-posedness of such equations and analyze the asymptotic stability of solutions.