

## **KIM In-Sook**



Recently

Professor Department of Mathematics					
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Key Words	Nonl	inear functional analys	is , Nonline	ear eigenvalue problems, Degree Theory	
Research A	Area My ro ellipt we a meth	My research interests are nonlinear eigenvalue problems including bifurcation theory, applications to elliptic boundary value problems involving the p-Laplacian in a bounded or unbounded domain. Recentl we are concerned with semi-linear equations with symmetric or non-symmetric linear part, where the method is to use the degree theory for appropriate classes of nonlinear operators			
Education	• 1! • 1! • 1!	995 990 980	PhD MSc BSc	Ludwig-Maximilians University of Muenchen, Germany Ludwig-Maximilians University of Muenchen, Germany Sungkyunkwan University	
Experience	e 20 20 11 11	012 Oct – 2012 Nov 005 July – 2006 July 997 Mar – present 996 Mar – 1997 Feb	Visiting Visiting Profess Postdoo	Professor, Free University of Berlin, Germany Professor, Ludwig-Maximilians University of Muenchen, Germany or, Department of Mathematics, Sungkyunkwan University ctoral Member of Seoul National University	
Position	• 2	013 Sep – 2015 Feb	Head, D	epartment of Mathematics	
Selected Publication	• A • TI o • Ei M • A 11 • So • G N	<ul> <li>A degree theory for operators of generalized (S_+) type, Fixed Point Theory App., 2015, 194, 1-16.</li> <li>The Krasnosel'skii-Quittner formula and instability of a reaction-diffusion system with unilateral obstacles, Dynamics of Partial Differential Equations, 2014, 11, 229-250.</li> <li>Eigenvalue results for pseudomonotone perturbations of maximal monotone operators, Cent. Eur. J. Math., 2013, 11, 851-864.</li> <li>A global bifurcation result for generalized Laplace operators in R^N, J. Nonlinear Convex Anal., 2012, 13, 667680.</li> <li>Some eigenvalue results for maximal monotone cperators, Nonlinear Anal., 2011, 74, 60416049.</li> <li>Global bifurcation for equations involving nonhomogeneous operators in an unbounded domain, Nonlinear Anal., 2010, 73, 1057-1064.</li> </ul>			

Global bifurcation for nonlinear equations, Nonlinear Anal, 2008, 69, 2362-2368. •