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Key Words	Matrix, Linear Preserver Problems, Combinatorics, Math Modeling Computational Math, 3D Printing, History of Math, Mobile Mathematics
Research Area	Matrix Theory, Combinatorial Matrix Theory, Numerical Linear Algebra, Math Modeling, Computational Math, 3D Printing, History of Math, Mobile Mathematics

Education			
	• 1991	PhD	Utah State Univ., USA
	• 1987	MSc	Utah State Univ., USA
	• 1981	BSc	Sungkyunkwan Univ

Experience		
	• 2006.4.1 - 2013. 2.28.	Director of BK 21 Mathematical Modelling HRD Division of SKKU
	• 2001.3.1 - 2003.2.28 2005. 9.1 - 2012.2.28.	Chair of Math Dept., Sungkyunkwan Univ.
	• 2007. 9.1 – 2007.8.30	Visiting Professor - Univ. of Nor. Iowa, Iowa, USA
	• 1998.9.1 – 1999.8.30	College of William & Mary, USA

Position		
	• 2015/01/01-2016/12/31	Vice President of Korean Mathematical Society
	• 2011/01/01-2015/12/31	ICME12 and ICM 2014 LOC Member, ILAS 2014 SOC & LOC Co-Chair
	• 2007/01/01 -2016.12.31	Editor-in-Chief for Journal of KSME Series E

Selected Publication
• Sign idempotent sign pattern matrices that allow idempotence, Linear Algebra Appl. 487 (2015), 232–241. (with Jin-Woo Park) (SCI)
• SIMULTANEOUS SOLUTIONS OF OPERATOR SYLVESTER EQUATIONS, Studia Mathematica, 222 (2014), 87-96. (with Phong, Vu Quoc) (SCI)
• A comparison of term ranks of symmetric matrices and their preservers. Linear Algebra Appl. 438 (2013), no. 10, 3745–3754. (with L. Beasley, S.-Z. Song, ,K.-T. Kang)(SCI)
• A HOPF BIFURCATION IN A THREE-COMPONENT REACTION-DIFFUSION SYSTEM WITH A CHEMOATTRACTION IN ONE DIMENSION, Abstract and Applied Analysis (2013), 1-11. (with Y. Ham, Q.P. Vu)(SCI)
• Simultaneous solutions of matrix equations and simultaneous equivalence of matrices. Linear Algebra Appl. 437 (2012), no. 9, 2325–2339. (with Q.P. Vu) (SCI)
• Springer Book: Mobile Linear Algebra with Sage, Selected Regular Lectures from the 12th International Congress on Mathematical Education, Springer, (Editor in Cheif: Sung Je Cho), (2015
• Improving Computational Thinking Abilities Through the Teaching of Mathematics with Sage, J. Korea Soc. Math. Ed. Ser. E: Communications of Mathematical Education, Vol. 29, No. 1, Jan. 2015. 19-33 (with K. Park)(KCI)
• A Mobile, Open-source 2-D and 3-D Printing Graphic Creation C.A.S. Tool for Mathematics Courses, Journal of US-China Education Review A, Vol. 4, No. 8, 569-580, 2014. (with V. Lang, J. Lee)

Others
• Patent: Cloud computing and recording Method for Random Problem Generator - Submission Number : 10-2014-0139027 - Registered number : 10-1560802 (Oct. 7 2015)