

**CENTRE OF EXCELLENCE IN MATHEMATICS
TABLE OF RESEARCH PROJECTS 2010**

Institute	Research Topic	Principal Researcher	Co-researchers and Institutes
Mahidol University	1. Mathematical modeling of calcium homeostasis and bone remodeling process	Asst. Prof. Dr. Chontita Rattanakul	1. Asst. Prof. Sahattaya Rattanamongkonkul Burapha University 2. Dr. Sittipong Ruktamatakul Thammasat University 3. A. Wannapa Kunpasuruang Silapakorn University
	2. Mathematical modeling for targeted drug delivery	Dr. Duangkamon Baowan	1. Dr. Kittisak Chayantrakom Mahidol University 2. Dr. Pairote Satiracoo Mahidol University
	3. On the bassel heat equation related to the Bessel ultra-hyperbolic operator	Asst. Prof. Dr. Gumpon Sritanratana	1. Dr. Kamsing Nonlaopon Khonkean University 2. Chalermphon Bhunpok Chiangmai University 3. Dr. Jetsada Thareeboon KMITNB
Kasetsart Univrsity	1. Projective time integration by POD method for computing shallow water equation	Asst. Prof. Dr. Montri Maleewong	-
	2. Solving a class of rational recursive equations	Prof. Dr. Vichian Laohakosol	1. Watcharapon Pimsert Kasetsart Univrsity 2. Angkana Sripayap Kasetsart Univrsity
Thaksin University	1. Comparison of Akaike information criterion (AIC) and Bayesian information criterion (BIC) in selection the best simultaneous equations model	Dr. Warangkhangna Keerativibool	-
Naresuan University	1. Linearization of second order parabolic partial differential equations with two independent variables using point transformations: equations equivalent to the equation $vr = vyy + \alpha v$.	A. Ekkarath, Thailert	-
	2. Fixed point theorems and convergence theorems for nonexpansive and generalized nonexpansive mappings with applications	Dr. Sornsak Thianwan	1. Anchalee Kaewchareon Naresuan University 2. Dr. Bancha Panyanak Chiangmai University 3. Kasamsuk Ungchittrakool Naresuan University
	3. Some developments in generalised variational inequality problems and equilibrium problems on vector spaces	Prof. Dr. Somyot Plubtiang	1. Rabian Wangkeeree Naresuan University 2. A. Kamonrat Nammanee Naresuan University 3. Dr. Rattanaporn Wangkeeree Naresuan University

Silapakorn University	1. On the number of iterations of Newton's method for complex polynomials with multiple roots	Dr.Sumjate Chaiya	-
	2. Derived Mal'cev terms by hypersubstitutions in permutable varieties	Dr.Ratana Srithus	-
	3. Prescribing dilations in space	Dr. Malinee Chaiya	-
Khonkean University	1. Cellular covers of mixed groups	Assist.Prof.Thawat Changphas	-
Chiangmai University	1. Global stability analysis of an epidemic model incorporating migration and multiple infection	Dr.Thongchai Damrongpokapan	-
	2. Noncommutative Lp-spaces	Dr.Somlak Utudee	-
	3. Existence theorems and approximation methods of common fixed point for nonlinear mappings	Prof.Dr.Sutep Suantai	1.Assoc.Prof.Dr.Chantana IyaraKanchanakool Prince of Songkla University 2.Dr.Chakkrid Klin-eam Naresuan University 3.Dr.Suwicha Imnang Thaksin University
	4. Muscle modeling and control for motor recovery in neurological injury patients	Dr. Thanasak Mouktonglang	1.Dr.Kamonwan KoChareon Chiangmai University 2.Assist.Prof.Dr.Chulin Likasiri Chiangmai University 3.Dr.Natee Tongsiri Chiangmai University 4.Dr.Dhiranuch Bunnag Chiangmai University
Prince of Songkla University	1. Ternary algebraic systems and generalizations	Assist. Prof.Dr.Ronnason Chinram	-
	2. Comparison theorems for curves in metric spaces of bounded curvature	Dr. Asaree Samaae	1. Asst. Prof. Dr. Chaiwat Maneesawarn Mahidol University 2.Assist.Prof.Wichitra Karuwannapat Mahidol University Research Assistant 1.Miss Manthana Choot-Thong Mahidol University
Chulalongkorn University	1. On (k,t)-choosability of graphs	Assist. Prof.Dr.Chariya Uiyysathian	-
	2. The quadratic digraphs over euclidean domains	Assist. Prof.Dr. Yotsanan Meemark	-
King Mongkut's University of Technology Thonburi	1. Extra-gradient type methods for a class of monotone mappings related to fixed points problems and their applications	Assist. Prof.Poom Kumam	1. Asst. Prof. Attapol Kaewkhao Burapha University 2. Asst. Prof.Narin Petrote Naresuan University 3. Asst. Prof.Isara Inchan Uttaradit Rajchabaht University
Suranaree University of Technology	1. New form of boundary value problems for the NSEs: approximate solutions and applications	Assoc. Prof. Dr. Nikolay Moshkin	1.Dr. Kanyuta Pochinapan Chiangmai University 2.Dr.Damrong Yambangwhai Naresuan University 3.Dr.Chakkrid Sompong Naresuan University