CENTRE OF EXCELLENCE IN MATHEMATICS

TABLE OF RESEARCH PROJECTS 2011

Institute	Research Topic	Principal Researcher	Co-researchers and Institutes
Chulalongkorn University	Continued fractions and series expansions.	Assistant Professor Dr. Tuangrat Chaichana	-
	Properties and structures of some transformation semigroups	Assistant Professor Dr. Sureeporn Chaopraknoi	-
	Authentication Process using Average Keystroke's Time.	Assistant Professor Dr.Pattarasinee Bhattarakosol	-
Kasetsart University	Diophantine Equations and Exponential Polynomials.	Dr. Kantaphon Kuhapatanakul	1. Dr. Aoumporn Fagsuwan
			Chulalongkorn University
			2. Assistant Professor Dr. Sarachai Kongsiriwong
			Prince of Songkhla University
			3. Dr. Supawadee Prugsapitak
			Prince of Songkhla University
Khon Kaen University	Algorithm for Maximal monotone operators in Banach spaces.	Associate Professor Dr. Satith Sea-jung	1. Assistant Professor Dr. Hathaikarn Wattanataweekul
			Ubonrajathani University
			2. Assistant Professor Dr. Somchit Chotchaisthi
			Khon Kaen University
			3. Assistant Professor Dr. Utith Inprasit
			Ubonrajathani University
			4. Dr. Weerayuth nilsrakoo
			Ubonrajathani University
			5. Dr. Darunee Booncharee
			Mahasarakham University
	Enchance the Quality of Mathematics Classroom based on	Assistant Professor Dr. Maitree Inprasitha	1. Dr. Narumol Inprasitha
	Lesson Study and Open Approach Innovation.		Khon Kaen University
			2. Assistant Professor Dr. Utith Inprasitha
			Ubonrajathani University
			3. Dr. Tipparat Nopparit
			Chaingmai University
Chaingmai University	An application of fixed point and integration theory for	Dr. Worapong Fupinwong	-
	differentiability of the gravitational potential fields		

Institute	Research Topic	Principal Researcher	Co-researchers and Institutes
	Solving problems for nonspreading type mappings and	Dr. Warunum Inthakon	-
	some generalized nonexpansive mappings in Banach spaces		
	The nature amd Development of Mathematics Pre-service	Dr. Tipparat Nopparit	-
	Teachers' Mathematical Knowledge for Teaching in Schools		
	Innovated by Lesson Study and Open Approach.		
	Totally geodesic surfaces in Hyperbolic knot manifold.	Dr. Pradthana Jaipong	-
	Robust Exponential Stability of uncertain Neutral	Assistant Professor Dr. Thaned Rojsiraphisal	-
	Systems with delays.		
	Stability and control of Dynamical Systems	Associate Professor Dr. Piyapong Niamsup	1. Dr.Thongchai Botmart
	with Delays and Applications		Srinakharinwirot University 2. Dr. Kanit mukdasai
			Khon Kaen University
			3. Dr. Teeranush Suebcharoen
			Chaingmai University
Thaksin University	Analytic solutions of a functional differential equation.	Dr. Theeradech Kuawong	-
		0	
	Mathematical Model and Numerical Technique of	Dr. Wariam Chuajan	-
	Granular Flow in a Silo.		
King Mongkut 's University	Meshless Local Petrov-Galerkin (MLPG) Method for	Assistant Professor Dr. Anirut Luadsong	-
of Technology Thonburi	Ocean Model in the Gulf of Thailand.		
	Third-order Central Scheme and Interpolating Moving	Dr. Warisa Yomsaticankul	-
	Least Squares Reconstruction for Hyperbolic Conservation Laws		
	Combinatorial proofs of identities for continued fractions.	Dr. Oranit Panprasert	-
King Mongkut 's University of	Positive Solutions of Three-point Boundary Value	Associate Professor Dr. Thanin Sitthiwirattham	
Technology North Bangkok	Problem for Difference Equation.		

Institute	Research Topic	Principal Researcher	Co-researchers and Institutes
	Improvement of numerical Techniques for Solving	Dr. Khomsan Neamprem	-
	Linear and Nonlinear Integral Equations		
Thammasat University	Parameter Estimation for Lifetime Crack	Associate Professor Dr. Kamon Budsaba	1. Professor Dr. Andrei Volodin
	Distribution.		University of Western Australia
			2. Thuntida Ngamkham
			Thammasat University
	Point subsets with a number of interior points.	Dr.Banyat Sroysang	-
	Numerical and Analytical Solutions of Air Flow in a	Dr.Suputchara Kongnual	-
	Mathematical Model for Delivery in a Human Oral Airway.		
Naresuan University	Optimal system and invariant solutions on	Dr. Kantima Khumrod	-
	((U yy(t,s,y)-U t (t,s,y))y-2sU sy(t,s,y))y+(S2+1)U ss(t,s,y)+2sUs=0		
	The connective K theory of finite groups and	Dr. Kijti Rodtes	-
	related topics.		
	Connections between order of polynomials and	Dr. Ummarin Pintoptang	-
	q-cycles over a finite field.		
	Conditions for the solutions of fixed point problems and the systems	Assistant Professor Dr. Rabian Wungkeeree	1. Assistant Professor Dr. Narin Petchroj
	for finding solutions of generalized equilibrium problems.		Naresuan University
			2. Assistant Professor Dr. Poom Kumam
			King Mongkut 's University of Technology Thonburi
			3. Dr. Payup Katechung
			King Mongkut 's University of Technology Thonburi
			4. Dr. Kasamsuk Ungchittrakool
			Naresuan University
			5. Dr. Rattanaporn Wangkeeree
			Naresuan University
Burapha University	Non-Uniform Bounds on Poisson Approximation	Assistant Professor Kanint Teerapabolarn	-
	with the Stein-Chen Method		

Institute	Research Topic	Principal Researcher	Co-researchers and Institutes
	Rotation-invariant holomorphic function spaces.	Dr. Areerak Chaiworn	-
	Hybrid Diffusion and Numerical Simulation for Gene	Dr. Somkid Intep	-
	Nonlinear Auto-regulation networks		
Mahidol University	Mathematical Modeling and Optimization for a	Assistant Professor Dr. Somkid Amornsamankul	1. Associate Professor Dr. Wannapong Triampo
	Microalgaebased Wastewater Treatmen Systim.		Mahidol University
			2. Dr. Busayamat Pimpunchart
			King Mongkut 's Institute of Technology Ladkrabang
	Stochastic modelling and simulations of GPCR-Mediated sensory	Professor Dr. Yongwimon Lenbury	1. Assistant Professor Dr. Darapond Triampo
	response: calcium-dependent regulation and G Protein		Mahidol University
			2. Dr. Charin Modchang
			Mahidol University
			3. Assistant Professor Dr. Chontita Rattanakul
			Mahidol University
	The Environmental and Economic Impacts on	Dr. Kornkanok Bunwong	1. Dr. Wichuda Sae-jea
	Marine Ecosystems.		Mahidol University
			2. Dr. Elvin J. Moore
			King Mongkut 's University of Technology North Bangkok
			3. Dr. Ratchada Pattaranit
			Naresuan University
Ramkhamhaeng University	Graphs having panconnected square.	Dr. Sirirat Singhum	-
Srinakharinwirot University	The consistency and stability solutions of the implusive	Dr. Sirirat Suksai	-
	second-order differential equations		
Silpakorn University	On vectorial regularization techniques and fast numerical	Dr. Noppadol Chumchob	-
	algorithms for variational image registration		
	Coregular transformations semigroups.	Dr.Tiwadee Musunthia	-

Institute	Research Topic	Principal Researcher	Co-researchers and Institutes
	Dualisabilities on Preprimal Algebras and	Professor Dr. Chawewan Ratanaprasert	1. Associate Professor Dr. Thawhat Changphas
	Hyperstructure.		Khon Kaen University
			2. Dr. Ratana Srithus
			Silpakorn University
			3. Dr. Wattapong Puninagool
			Udon Thani Rajaphat University
Prince of Songkla University	Confidence Intervals and the Delta Method	Dr. Patthawan Tongkumchup	1. Dr. Ratikan Sae-lim
			Prince of Songkla University
			2. Dr. Nifatmha Makaja
			Prince of Songkla University
	A Cantor p-ary Decomposition on the Hilbert Cube	Dr. Aniruth Phon-on	-
	Option pricing analysis based on an approximate numerical mode	Dr. Arthit Intarasit	-
	Common Fixed Point Theorems for some Nonlinear Mappings	Dr. Orawan Treepak	-
	on Banach and Convex Metric Spaces.		
Ubonrajathani University	A comparative study of characteristics between a	Dr. Pairin Suwansri	-
	viscous incompressible flow past two rotating circular		
	cylinders and a rotating torus about its centerline.		
	Developing mathematical modeling activities for middle	Dr. Supot Seebut	-
	school level.		
	Developing hands on Mathematical activities for	De Socitore posicio	
	Developing hands-on- Mathematical activities for kindergarten classrooms.	Dr. Sasitorn pasjuso	-
	Rinder gar tell (1855) 00115.		
	Development of Assistant Learning Program for	Dr. Sakda Noinang	-
	Multivariable Calculus Using Symbolic Package.		
King Mongkut's Institute of	Finding some 2-partite and 3-partite Ramsey Numbers.	Dr. Decha Somna	
Technology Ladkrabang	- mang some 2 partice and 5 partice Ramsey funiters.		
Laukiabang			