
Prasit Cholamjiak

Ph. D.

Assoc. Prof.



Workplace

School of Science
University of Phayao

Address: 19 Moo 2, Maeka Sub-
district, Muang District, Phayao
Province, Thailand

Phone:
+66 (0)84 3731038

Email:
prasit.ch@up.ac.th

Languages

Thai
English

Academic Position

Associate Professor in Mathematics

Education

- B.Sc. (Mathematics)-2002
Chiang Mai University, Chiang Mai, Thailand
- M.Sc. (Mathematics)-2005
Chiang Mai University, Chiang Mai, Thailand
- Ph.D. (Mathematics)-2011
Chiang Mai University, Chiang Mai, Thailand

Specializations

- Fixed Point Theory
- Optimization Theory

Editorial Board

- Thai Journal of Mathematics

Research Funds

- Royal Golden Jubilee Research Fellow
2009-2011
- Unit of Excellence in Mathematics and Applications
2019-2021
- Research Grant for New Scholar
2012-2017
- TRF Research Career Development Grant
2018-2020
- Research Grants for Talented Mid-Career Researchers
2021-2023

Awards

- UP Outstanding Research Award in Science and Technology 2019-2020

Current Research Projects

- Signal and image processing using optimization techniques
- Data classifications

Selected Publications

- 1) S. Suantai, Y. Shehu, P. Cholamjiak and O.S. Iyiola, Strong convergence of a self-adaptive method for the split feasibility problem in Banach spaces, *J. Fixed Point Theory Appl.* (2018) 20: 68. <https://doi.org/10.1007/s11784-018-0549-y>.
- 2) P. Sunthrayuth and P. Cholamjiak, Iterative methods for solving quasi-variational inclusion and fixed point problem in q -uniformly smooth Banach spaces, *Numer. Algor.* 78 (2018) 1019-1044.
- 3) Y. Shehu and P. Cholamjiak, Iterative method with inertial for variational inequalities in Hilbert spaces, *Calcolo.* 56, 4 (2019). <https://doi.org/10.1007/s10092-018-0300-5>.
- 4) K. Kunrada, N. Pholasa and P. Cholamjiak, On convergence and complexity of the modified forward-backward method involving new linesearches for convex minimization, *Math. Meth. Appl. Sci.* 42 (2019), 1352-1362.
- 5) S. Suantai, Y. Shehu and P. Cholamjiak, Nonlinear iterative methods for solving the split common null point problems in Banach spaces, *Optim. Meth. Softw.* 34 (2019), 853-874.
- 6) S. Suantai, N. Pholasa and P. Cholamjiak, Relaxed CQ algorithms involving the inertial technique for multiple-sets split feasibility problems, *RACSAM.* 113 (2019), 1081-1099.
- 7) S. Kesornprom and P. Cholamjiak, Proximal type algorithms involving linesearch and inertial technique for split variational inclusion problem in Hilbert spaces with applications, *Optimization.* 68 (2019), 2365-2391.
- 8) S. Kesornprom, N. Pholasa and P. Cholamjiak, On the convergence analysis of the gradient-CQ algorithms for the split feasibility problem, *Numer. Algor.* 84 (2020), 997-1017.

- 9) D.V. Hieu and P. Cholamjiak, Modified extragradient method with Bregman distance for variational inequalities, *Appl. Anal.* (2020). DOI: 10.1080/00036811.2020.1757078.
- 10) P. Cholamjiak and P. Sunthrayuth, A halpern-type iteration for solving the split feasibility problem and the fixed point problem of Bregman relatively nonexpansive semigroup in Banach spaces, *Filomat*. 32 (2018), 3211-3227.
- 11) S. Suantai, N. Pholasa and P. Cholamjiak, The modified inertial relaxed CQ algorithm for solving the split feasibility problems, *J. Indust. Manag. Optim.* 14 (2018), 1595-1615.
- 12) N.T. Vinh, P. Cholamjiak and S. Suantai, A new CQ algorithm for solving split feasibility problems in Hilbert spaces, *Bull. Malays. Math. Sci. Soc.* 42 (2019), 2517-2534.
- 13) D.V. Thong and P. Cholamjiak, Strong convergence of a forward–backward splitting method with a new step size for solving monotone inclusions, *Comp. Appl. Math.* (2019) 38: 94. <https://doi.org/10.1007/s40314-019-0855-z>.
- 14) P. Cholamjiak and Y. Shehu, Inertial forward-backward splitting method in Banach spaces with application to compressed sensing, *Appl. Math.* 64 (2019), 409-435.
- 15) P. Cholamjiak, D.V. Thong and Y.J. Cho, A novel inertial projection and contraction method for solving pseudomonotone variational inequality problems, *Acta Appl. Math.* 169 (2020), 217-245.
- 16) M.A.A. Khan and P. Cholamjiak, A multi-step approximant for fixed point problem and convex optimization problem in Hadamard spaces, *J. Fixed Point Theory Appl.* 22, 62 (2020). <https://doi.org/10.1007/s11784-020-00796-3>.
- 17) P. Sunthrayuth and P. Cholamjiak, A modified extragradient method for variational inclusion and fixed point problems in Banach spaces, *Appl. Anal.* 100 (2021), 2049-2068.
- 18) P. Cholamjiak, S. Suantai and P. Sunthrayuth, Strong convergence of a general viscosity explicit rule for the sum of two monotone operators in Hilbert spaces, *J. Appl. Anal. Comput.* 9 (2019), 2137-2155.
- 19) S. Suantai, U. Witthayarat, Y. Shehu and P. Cholamjiak, Iterative methods for the split feasibility problem and the fixed point problem in Banach spaces, *Optimization*. 68 (2019), 955-980.
- 20) P. Cholamjiak, S. Suantai and P. Sunthrayuth, An explicit parallel algorithm for solving variational inclusion problem and fixed point problem in Banach spaces, *Banach J. Math. Anal.* 14 (2020), 20-40.

- 21) S. Suantai, K. Kankam and P. Cholamjiak, A novel forward-backward algorithm for solving convex minimization problem in Hilbert spaces, *Mathematics*. 2020, 8, 42; doi:10.3390/math8010042.
- 22) S. Suantai, S. Kesornprom and P. Cholamjiak, A new hybrid CQ algorithm for the split feasibility problem in Hilbert spaces and its applications to compressed sensing, *Mathematics*. 2019, 7, 789; doi:10.3390/math7090789.
- 23) S. Suantai, S. Kesornprom and P. Cholamjiak, Modified proximal algorithms for finding solutions of the split variational inclusions, *Mathematics*. 2019, 7, 708; doi:10.3390/math7080708.
- 24) S. Suantai, M.A. Noor, K. Kankam and P. Cholamjiak, Novel forward–backward algorithms for optimization and applications to compressive sensing and image inpainting, *Adv. Differ. Equ.* (2021) <https://doi.org/10.1186/s13662-021-03422-9>.
- 25) S. Suantai, K. Kankam and P. Cholamjiak, A projected forward-backward algorithm for constrained minimization with applications to image inpainting, *Mathematics*. 2021, 9(8), 890; <https://doi.org/10.3390/math9080890>.
- 26) P. Suntharayuth, N. Pholasa and P. Cholamjiak, Mann-type algorithms for solving the monotone inclusion problem and the fixed point problem in reflexive Banach spaces, *Ric. di Mat.* (2021). <https://doi.org/10.1007/s11587-021-00596-y>.
- 27) S. Suantai, N. Eiamniran, N. Pholasa and P. Cholamjiak, Three-step projective methods for solving the split feasibility problems, *Mathematics* 2019, 7(8), 712; <https://doi.org/10.3390/math7080712>.
- 28) P. Cholamjiak, S. Suantai and P. Sunthrayuth, An iterative method with residual vectors for solving the fixed point and the split inclusion problems in Banach spaces, *Comp. Appl. Math.* 38, 12 (2019). <https://doi.org/10.1007/s40314-019-0766-z>.
- 29) P. Sunthrayuth, L.O. Jolaoso and P. Cholamjiak, New Bregman projection methods for solving pseudo-monotone variational inequality problem, *J. Appl. Math. Comput.* (2021). <https://doi.org/10.1007/s12190-021-01581-2>.
- 30) P. Cholamjiak, D.V. Hieu and Y.J. Cho, Relaxed forward-backward splitting methods for solving variational inclusions and applications, *J. Sci. Comput.* 88, 85 (2021). <https://doi.org/10.1007/s10915-021-01608-7>.

For more publications, please go to the following link:

<https://scholar.google.com/citations?hl=th&user=eli2fTUAAAAJ>

Research Activities

- The 4th Conference on Fixed Point Theory and Applications (FPTA2010), Thailand
- The Second Asian Conference on Nonlinear Analysis and Optimization (NAO-Asia 2010), Thailand
- The 10th International Conference on Fixed Point Theory and its Applications, Romania
- The International Conference 2012 on MATHEMATICAL INEQUALITIES AND NONLINEAR FUNCTIONAL ANALYSIS WITH APPLICATIONS, Korea
- Workshop on Nonlinear Analysis and Applications 2016, Thailand
- The Asian Mathematical Conference 2016, Indonesia
- International Workshop on Fixed Point Theory and Applications 2016, Korea
- The 9th Asian Conference on Fixed Point Theory and Optimization 2016, Thailand
- The 24th Annual Meeting in Mathematics (AMM 2019), Thailand
- The 10th Asian Conference on Fixed Point Theory and Optimization 2018, Thailand
- The 6th Asian Conference on Nonlinear Analysis and Optimization (NAO-Asia 2018), Japan
- The 3rd International Conference of Mathematical Sciences (ICMS 2019), Turkey
- The 7th International Conference on System Modeling and Optimization (ICSMO 2019), Italy
- International Workshop on Applied Nonlinear Analysis (IWANA 2019), Thailand (Invited speaker)
- Conference in Number Theory and Analysis 2019 (CNA 2019), Thailand (Invited speaker)
- International Workshop on Digital Image Processing and Machine Learning (IWDM 2021), Thailand