



Mr. Chacha Stephen Chacha is an assistant lecturer at Mkwawa University College of Education (UDSM-MUCE). He graduated his first degree at University of Dar es Salaam-MUCE 2009, where he pursued a Bachelor of Education in mathematics. In 2010-2012; he pursued Masters of Science in mathematical modeling at University of Dar es Salaam. Currently, he is enrolled as a third year doctoral student in applied mathematics at Pusan National University in South Korea. He is doing his research on efficient iterative algorithms and condition numbers for a class of nonlinear matrix equations arising in real life applications in numerous fields such braid group, quantum field theory, statistical mechanics, quantum groups, differential equations, knot theory and other disciplines.

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Mr. Chacha Stephen Chacha's Cv

Areas of specialization and research interests

- Numerical linear algebra (Iterative methods for solutions and condition numbers for matrix equations) and
- Optimization (Scheduling/Timetabling) via exact and heuristic methods

Publications

- Chacha Stephen Chacha and Syed Muhammad Raza Shah Naqvi. Condition numbers of the nonlinear matrix equation $X^p - A^*e^X A = I$, Journal of function spaces (SCIE), 2018. **In press**
- Stephen, Chacha and Mushi, Allen Rangia, Optimal Solution Strategy for University Course Timetabling Problem, International Journal of Advanced Research in Computer Science . Jan/Feb2013, Vol. 4 Issue 1, pp. 35-40.

Presentations in international conferences

- Chacha Stephen Chacha and Hyun Min-Kim, On Hermitian positive definite of the nonlinear matrix equation $X^p - A^*e^X A = I$, The 70th Anniversary of Korean Mathematical Society (KMS), International Conference, Seoul National University, south Korea, 2016.

- Abstract of the Korean mathematics Society (2016 / vol.2016 / no.2) Available at:

http://www.mathnet.or.kr/new_sub03/sub03_07.php?key_search=1&coden=&volume=&number=&key_field=author&key_word=chacha&x=18&y=13

- Chacha Stephen Chacha and Hyun Min-Kim, Condition number of the nonlinear matrix equation, a poster session in 'PNU MATH FORUM 2017' International Conference held on December 7-9, 2017, at Pusan National University, Busan, Korea. Available at: <http://pnumathforum.modoo.at/>
- Chacha Stephen and Allen Rangia Mushi, Optimal Solution Strategy for University Course Timetabling Problem, East Asia mathematical society, International conference, Bali, Indonesia, 2016.