

Proposed Research

Here is where we give an introduction

1. SHORTCOMINGS OF EXISTING AUTOMATIC ALGORITHMS

Why the existing algorithms fail

2. NEW PARADIGM FOR AUTOMATIC ALGORITHMS

Cones instead of balls, see Hickernell et al (2014) and Ding et al (2013)

3. PROCESS FOR DEVELOPING A NUMERICAL INTEGRATION TOOLBOX

Engineering stuff

4. ENGAGING THE COMMUNITY

Spreading the good word

BIBLIOGRAPHY & REFERENCES CITED

- Ding Y, Clancy N, Hamilton C, Hickernell FJ, Zhang Y (2013) The complexity of guaranteed automatic algorithms. In preparation
- Hickernell FJ, Jiang L, Liu Y, Owen AB (2014) Guaranteed conservative fixed width confidence intervals via Monte Carlo sampling. In: Dick J, Kuo FY, Peters GW, Sloan IH (eds) Monte Carlo and Quasi-Monte Carlo Methods 2012, Springer-Verlag, Berlin, to appear