Erratum to: Fast integer least-squares estimation for GNSS high-dimensional ambiguity resolution using lattice theory

S. Jazaeri · A. R. Amiri-Simkooei · M. A. Sharifi

Published online: 13 October 2011
© Springer-Verlag 2011

Erratum to: J Geod

DOI 10.1007/s00190-011-0501-z

Great care must be taken when comparing the numerical performance of algorithms. The comparison must be fair and the way the comparison has been done must be described in sufficient detail.

In Jazaeri et al. (2011), Fast integer least-squares for GNSS high-dimensional ambiguity resolution using lattice theory, *Journal of Geodesy*, doi:10.1007/s00190-011-0501-z, we made repeated statements that the performance of our algorithm, when compared to LAMBDA, were proved to be faster. Though it was mentioned in the paper, we would like to emphasize again that this statement refers to the educational version of the LAMBDA software, which we downloaded free of charge from the TU Delft website. The code of the educational version has not been optimized. A more realistic

comparison of the numerical performance of both approaches would require a comparison with a version of the LAMBDA software that has implemented several improvements such as those described in, e.g. Teunissen (1995), De Jonge and Tiberius (1996), and De Jonge (1998).

References

- De Jonge P (1998) A processing strategy for the application of the GPS in networks, vol 46. Netherlands Geodetic Commission, Publications on Geodesy
- De Jonge P, Tiberius CCJM (1996) The LAMBDA method for integer ambiguity estimation: implementation aspects. LGR-Series 12, Delft Geodetic Computing Centre, Delft University of Technology
- Teunissen PJG (1995) The least-squares ambiguity decorrelation adjustment: a method for fast GPS integer ambiguity estimation. J Geod 70:65–82

The online version of the original article can be found under doi:10.1007/s00190-011-0501-z.

S. Jazaeri (✉) · M. A. Sharifi
Department of Surveying and Geomatics Engineering,
College of Engineering, University of Tehran, Tehran, Iran
e-mail: jazayeri@ut.ac.ir

M. A. Sharifi
e-mail: sharifi@ut.ac.ir

A. R. Amiri-Simkooei
Department of Surveying Engineering, Faculty of Engineering,
University of Isfahan, 81746-73441 Isfahan, Iran
e-mail: ar_amiri@yahoo.com