

PAPER TITLE

Evaluating the performance of NRTK GPS positioning on land navigation applications.

AUTHORS

J. Aponte, X. Meng, T. Moore, C. Hill, M. Burbidge

BIOGRAPHY

Jose Aponte is a PhD student at the IESSG, the University of Nottingham performing studies in NRTK Quality Control. He holds a MSc. in Satellite Positioning Technology from the same university and a BSc. in Civil Engineering from the University of Orient in Venezuela.

Dr Xiaolin Meng is a Research Councils Academic Fellow at the IESSG, and Guest Professor of Wuhan University and the Chinese Academy of Surveying and Mapping. He holds a PhD in Highway, Urban Road and Airport Engineering from Tongji University in Shanghai (1998), China and a PhD in Space Geodesy from the University of Nottingham (2002). He is chairing two study groups and a sub-committee of FIG, IAG and IABMAS.

Professor Terry Moore is Director of the IESSG at the University of Nottingham. He holds a PhD degree in Space Geodesy from the University of Nottingham. He has over 25 years research experience with GNSS and is a consultant and adviser to European and UK government organisations and industry. Professor Moore is a Fellow of the Royal Institute of Navigation, a Fellow of the Royal Astronomical Society, and he is Chair of the International Sub-Committee of the Civil GPS Service Interface Committee.

Dr Chris Hill is a Principal Research Officer at the IESSG, specialising in the navigational aspects of the Global Positioning System. He has been involved extensively in the writing of software in the fields of satellite geodesy as well as geodetic datum transformations. He has also acted as the IESSG's project manager on ESA's Low-Cost Navigator (LCN) project.

Mark Burbidge is the UK GNSS Network & Technical Support Manager for Leica Geosystems. Mark started his career in electronic engineering as an apprentice with a flight simulation company, before landing a job with a survey manufacturer in 1990. Since then Mark has held several technical positions within land surveying manufacturers, receiving first hand training in Japan, Europe and America. For the past 5yrs Mark has specialised in GPS/GNSS and more recently Networked GNSS. Mark was the first person in the UK to complete the Spatial Data Management NVQ 4, with RICS and after further studies, has gained the RICS designation as Chartered Land Surveyor and full membership of the Institution of Civil Engineering Surveyors. He has also been part of the RICS Geomatics faculty board, the RICS Mapping and Positioning Panel and is now the FIG commission 5 UK representative, for positioning and measurement.