



Contribution ID: 113

Type: **Presentation**

Linear and non-linear regression modelling of TEC

This paper compares both linear and non-linear regression modeling techniques in approximating total electron content (TEC). Both techniques have been applied on a similar dataset and verified on an independent but identical dataset to assess the performance of the developed models

Primary author: Mr HABARULEMA, John Bosco (Hermanus Magnetic Observatory, P.O. Box 32, Hermanus 7200, South Africa and Department of Physics and Electronics, Rhodes University, Grahamstown 6140, South Africa)

Co-authors: Dr LEE-ANNE, McKinnell (Hermanus Magnetic Observatory, P.O. Box 32, Hermanus 7200, South Africa and Department of Physics and Electronics, Rhodes University, Grahamstown 6140, South Africa); Dr BEN, Opperman (Hermanus Magnetic Observatory, P.O. Box 32, Hermanus 7200, South Africa)

Presenter: Mr HABARULEMA, John Bosco (Hermanus Magnetic Observatory, P.O. Box 32, Hermanus 7200, South Africa and Department of Physics and Electronics, Rhodes University, Grahamstown 6140, South Africa)

Track Classification: Track D2 - Space Science