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SpringerBriefs in Signal Processing

Engineering : Signal, Image and Speech Processing

Davey, S., Gordon, N., Holland, I., Rutten, M., Williams, J., National Security and ISR Division, Edinburgh, SA, Australia

Bayesian Methods in the Search for MH370

- Presents a unique insight into the Bayesian calculation of the search zone for MH370
- Written by members of the MH370 search team
- Contains a tutorial description of available data allowing readers to work out their own solutions

This book demonstrates how nonlinear/non-Gaussian Bayesian time series estimation methods were used to produce a probability distribution of potential MH370 flight paths. It provides details of how the probabilistic models of aircraft flight dynamics, satellite communication system measurements, environmental effects and radar data were constructed and calibrated. The probability distribution was used to define the search zone in the southern Indian Ocean. The book describes particle-filter based numerical calculation of the aircraft flight-path probability distribution and validates the method using data from several of the involved aircraft's previous flights. Finally it is shown how the Reunion Island flaperon debris find affects the search probability distribution.

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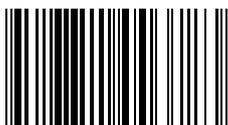
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