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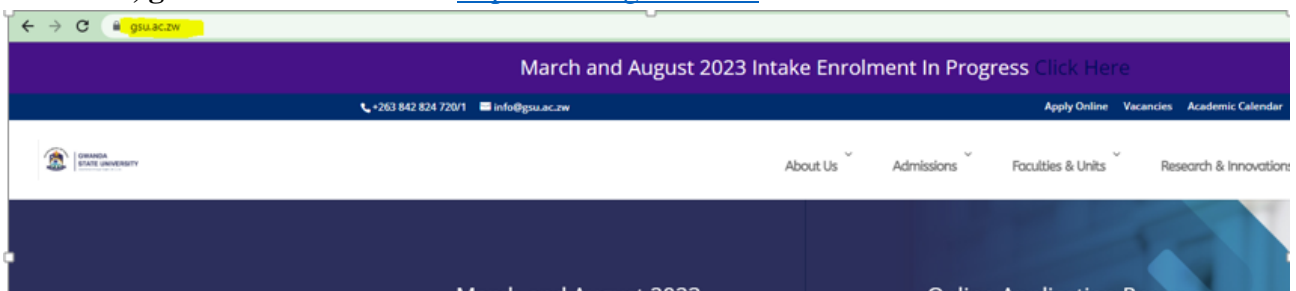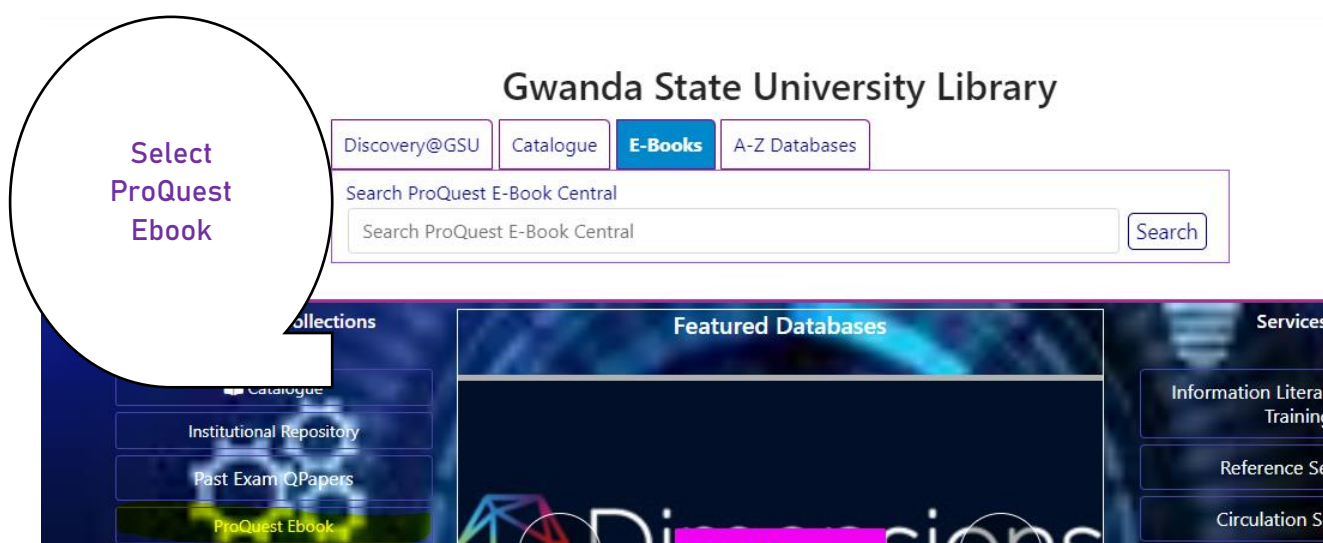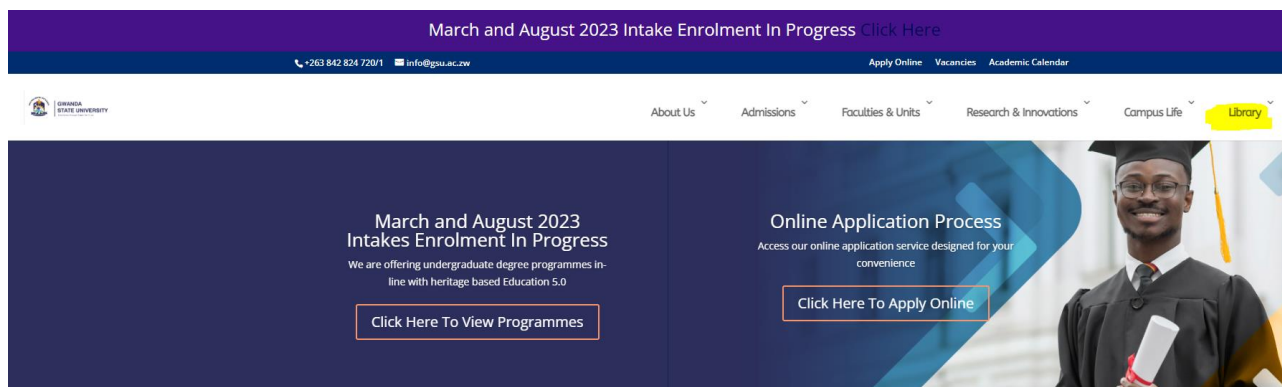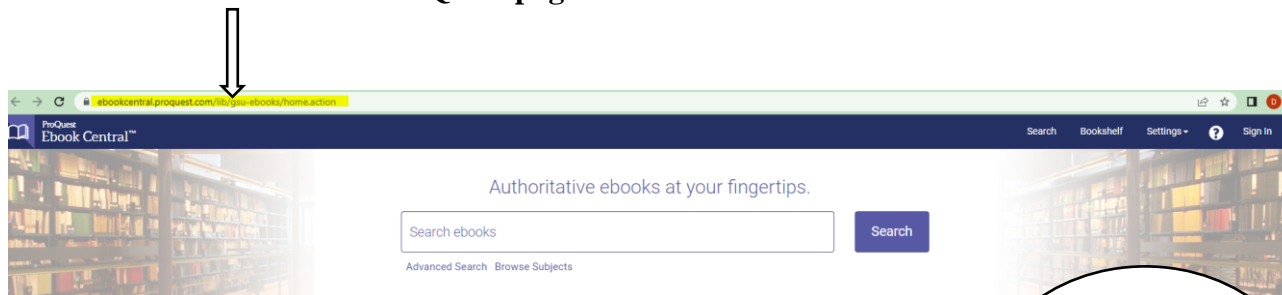

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Laurens M. Bouwer, Doris Dransch, Roland Ruhnke, Diana Rechid, Stephan Frickenhaus, and Jens Greinert

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Description

This open access book presents the results of three years collaboration between earth scientists and data scientist, in developing and applying data science methods for scientific discovery. The book will be highly beneficial for other researchers at senior and graduate level, interested in applying visual data exploration, computational approaches and scientifc workflows.

Book Details

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Integrating Data Science and Earth Science

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EDITORS
Laurens M. Bouwer,
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Roland Ruhnke,
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ways were found to broaden data availability and derive new, crucial information from existing data. We used examples to map river levees in Germany for which no consistent data was available, and for locating ammunition on the sea-bed.

- **The need to approximate complex processes with machine learning**: Some processes in the Earth system are too complex or computationally costly for large-scale or multiple simulations in models. Here, machine learning alternatives can replace some of these (partly unknown) processes. We present applications for atmospheric methane and ethane concentrations through a neural network and for combining highly heterogeneous data to simulate relations between extreme temperatures and health outcomes.

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