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**Medicine : Health Informatics**

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# Leveraging Data Science for Global Health

- Is the first and currently the only book on digital disease surveillance through the application of machine learning to non-traditional data sources
- Focuses on combating disease and promoting health, especially in resource-constrained settings
- Includes and expands on the latest non-traditional data sources such as Google Trends, Google Street View, the news media, and social media
- Is an open access book

This open access book explores ways to leverage information technology and machine learning to combat disease and promote health, especially in resource-constrained settings. It focuses on digital disease surveillance through the application of machine learning to non-traditional data sources. Developing countries are uniquely prone to large-scale emerging infectious disease outbreaks due to disruption of ecosystems, civil unrest, and poor healthcare infrastructure – and without comprehensive surveillance, delays in outbreak identification, resource deployment, and case management can be catastrophic. In combination with context-informed analytics, students will learn how non-traditional digital disease data sources – including news media, social media, Google Trends, and Google Street View – can fill critical knowledge gaps and help inform on-the-ground decision-making when formal surveillance systems are insufficient.

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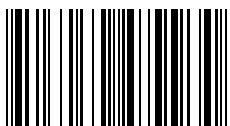
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