L.A. Celi, M.S. Majumder, P. Ordóñez, J.S. Osorio, K.E. Paik, M. Somai (Eds.)

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.

1st ed. 2020, XII, 475 p. 196 illus., 175 illus. in color.

Printed book

Hardcover
49,99 € | £44.99 | $59.99
[1]53,49 € (D) | 54,99 € (A) | CHF 66,61

Softcover
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