

# Social Sensing: Building Reliable Systems on Unreliable Data

In the rapidly evolving world of artificial intelligence (AI), data has become the lifeblood of innovation. However, the data we rely on is often incomplete, noisy, and unreliable. This poses a significant challenge to the development of AI systems that are both accurate and reliable.



## Social Sensing: Building Reliable Systems on Unreliable Data

★★★★☆ 4 out of 5

Language : English  
File size : 24931 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 217 pages



In his groundbreaking book, *Social Sensing: Building Reliable Systems on Unreliable Data*, Dr. Jeffrey Heer introduces a new paradigm for AI development. Social sensing is a data-centric approach that leverages the collective intelligence of humans and machines to create systems that are robust to unreliable data.

Drawing on decades of research and practical experience, Dr. Heer provides a comprehensive guide to the principles and practices of social sensing. He covers a wide range of topics, including:

- The challenges of working with unreliable data
- The principles of social sensing
- The different types of social sensing systems
- The design and evaluation of social sensing systems

*Social Sensing* is an essential resource for anyone who is interested in developing AI systems that are reliable and trustworthy. It is a must-read for researchers, practitioners, and students in the fields of AI, machine learning, and data science.

## **Key Features of Social Sensing**

*Social Sensing* offers a number of key features that make it an invaluable resource for AI developers:

- **Clear and concise explanations of the principles of social sensing**
- **In-depth coverage of the different types of social sensing systems**
- **Practical guidance on the design and evaluation of social sensing systems**
- **Real-world examples of social sensing systems in action**
- **Thought-provoking insights into the future of AI**

## **Benefits of Using Social Sensing**

Social sensing offers a number of benefits for AI developers, including:

- **Improved data quality:** Social sensing can help to improve the quality of data by identifying and correcting errors.
- **Increased accuracy:** Social sensing can help to increase the accuracy of AI systems by providing more reliable data.
- **Enhanced reliability:** Social sensing can help to make AI systems more reliable by providing redundant sources of data.
- **Reduced costs:** Social sensing can help to reduce the costs of AI development by making it easier to collect and clean data.

## About the Author

Dr. Jeffrey Heer is a Professor of Computer Science at the University of Washington. He is a leading researcher in the field of visualization and human-computer interaction. Dr. Heer is the author of over 100 papers and several books, including *Data Visualization: A Handbook for Data Scientists*.

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