

# Call for Book Chapters

Book Title:

## Tracking and Preventing Diseases with Artificial Intelligence

### Scope of the Book

All around the world, the spread of infectious diseases is a major concern as it directly impacts the health of people. In spite of the medical advancements, there remain several incurable diseases for which prevention is the only cure. Recently, Artificial Intelligence (AI) has been rapidly adopted to assist physicians in diagnosis, disease tracking, prevention and control. Due to increasing availability of electronic healthcare data and rapid progress of analytics techniques, a lot of research is being carried out in this area applying machine learning/deep learning techniques to assist the medical professionals for making a preliminary evaluation. This book aims to demonstrate the potential and advancements of artificial intelligence for tracking and preventing diseases. Prospective authors are invited to submit their original contributions that deal with theory, methods, systems and applications of artificial intelligence for tracking and preventing diseases.

### The topics of interest include, but not limited to:

- Artificial intelligence in health informatics
- AI for predicting diseases
- Predicting disease progression using biomarkers
- Disease prevention using AI
- Data mining approaches for medical pathway analysis
- Big data analytics for predicting diseases
- Artificial intelligence for medical resource management
- Biomedical image analysis
- AI for infectious disease tracking
- Computer-aided automated diagnosis using AI

- Devices, systems and innovative technologies for disease tracking
- Wearable technology for disease tracking
- IoT for disease tracking
- AI for personal health management
- AI-based systems for training health professionals
- Software and public datasets for health informatics
- Issues, challenges and future prospects in health informatics
- Case studies related to incurable diseases, neurodegenerative diseases, etc.

### Important Dates

Chapter Submission Deadline: **15<sup>th</sup> October 2020**  
Acceptance Notification: **15<sup>th</sup> December 2020**  
Camera Ready Submission: **31<sup>st</sup> December 2020**

#### Main Highlights:

- Book Series: Intelligent Systems Reference Library, Springer
- The books of this series are submitted to ISI Web of Science, SCOPUS, DBLP and Springerlink
- **No publication fees**

### Submission Guidelines

- Please visit [Book Manuscript Guidelines](#) for chapter format (Word & Latex)
- Limit chapter to maximum 30 pages.
- All submissions should be done by email to:  
[profmayurimehta@gmail.com](mailto:profmayurimehta@gmail.com)  
[philfv8@yahoo.com](mailto:philfv8@yahoo.com)  
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