

Call for Book Chapters

Book Description

This book presents cutting-edge AI applications across six critical areas of medicine: brain tumor detection via Vision Transformers, ECG arrhythmia classification, colorectal cancer histopathology, drug discovery for lung cancer, early Alzheimer's prediction, and explainable AI for neurological disorders. Each chapter addresses a distinct clinical challenge while advancing a shared agenda — moving from pattern recognition through interpretability (using SHAP and causal frameworks) toward clinically trustworthy AI systems that generalize across institutions and po The book offers practical, empirically grounded insights into model selection, preprocessing protocols, cross-dataset validation strategies, and interpretability techniques — equipping readers to design, evaluate, and trust AI-assisted diagnostic systems. By emphasizing generalization and explainability alongside accuracy, it helps bridge the gap between algorithmic research and clinical deployment.

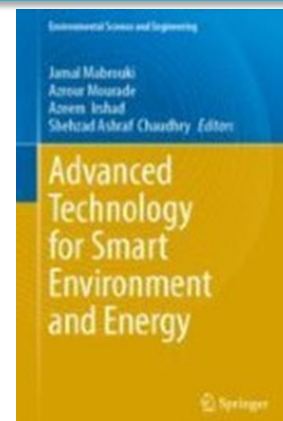
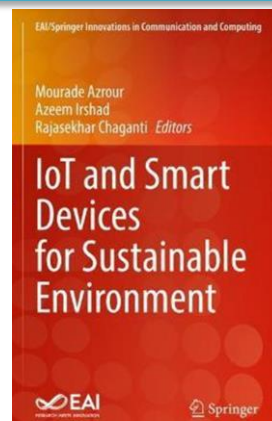
Scope of the book

- Machine Learning application for healthcare
- Deep Learning for healthcare
- Internet of Medical Things (IoMT)
- AI for smart Healthcare
- Smart Communication and Networking Technologies
- Big Data and Smart Systems
- Biometrics and Smart Healthcare Systems
- Cloud/Edge/Fog Computing Technologies for Smart Healthcare Systems
- Authentication and authorization in Healthcare Systems
- Security of private data
- Blockchain related applications for intelligent IoT trust, security and privacy

Submission guidelines

Manuscripts submitted for the book must be original and must not be previously published. Authors should send their manuscripts following email: iothealth2023@gmail.com

Previous editions



Editors

- **Prof. Mourade Azrou:** Faculty of Sciences and Technologies, Moulay Ismail University of Meknès, Morocco
- **Prof. Azidine Guezaz:** Technology Higher School, Cadi Ayyad University, Essaouira, Morocco
- **Prof. Fatima Amounas:** Faculty of Sciences and Technologies, Moulay Ismail University of Meknès, Morocco
- **Prof. Ömer KILIÇ:** Adiyaman University, Faculty of Pharmacy, Turkey

Important dates

- Manuscript submission deadline: **20-07-2026**
- Notification of acceptance: **01-08-2026**
- Submission of final revised paper: **10-08-2026**