

# *ANNOUNCEMENT*

**ELSEVIER**



## ***CALL FOR BOOK CHAPTERS***

**“Artificial intelligence, Big data, blockchain and 5G  
for digital transformation of the healthcare  
industry: A movement towards more resilient and  
inclusive societies”.**

**Editors: Patricia Ordóñez de Pablos** (University of Oviedo, Spain)  
and **Xi Zhang** (Tianjin University, China)

### **Introduction**

The global outbreak caused by covid-19 caused global disruption in societies, healthcare systems and economies around the world. Researchers, clinicians, CEOs and policy makers need to learn from the failures and successes and exploit the potential of advanced information technologies to build stronger healthcare systems, better quality healthcare services and more resilient societies.

Global disruption caused by Covid-19 outbreak in China in 2020 shows the urgent need to understand the potential of advanced IT for healthcare sector. It is crucial to share knowledge about best experiences, tools and solutions provided by IT to solve the global disruption caused the pandemic in societies, healthcare infrastructures and health workers as well as for preparedness for future pandemics and global disruption. We must learn from successes and failures in these last 3 years and

exploit the potential of AI, big data and knowledge management to provide better healthcare services.

The book will have a collection of relevant innovative research on digital healthcare, with a three mains goals: 1) study successes and failures in the field of IT and digital health during the pandemic, and analyze the lessons from these cases; 2) discuss latest advances in the field of digital healthcare, with a special focus on Artificial Intelligence, Big Data, Blockchain and 5G; and 3) analysis of implications for main stakeholders (patients, doctors, IT experts, directors, policy managers).

The book will include cases with experiences of applications of digital healthcare solutions from around the world (Asia, Europe, Gulf Region, Latin America, Middle East, USA, etc).

### **Possible topics of interest**

- 5G
- Artificial intelligence
- Big data in healthcare industry
- Blockchain
- Covid-19 and post covid-19 scenarios
- Data sharing and public health emergency
- Data quality
- Digital healthcare
- Digital tools for citizen empowerment
- Digital transformation of health services
- Desinformation and healthcare
- Ethics and law in digital health
- Games and gamification for health
- Health infrastructure
- Health policy and information technologies
- Innovations solutions
- Interoperability of e-health
- Internet of the things and healthcare
- Preparedness for outbreaks
- Secure access to healthcare data
- Smart healthcare
- Sustainable Development Goals (SDGs)
- The future of health data

### **Submission procedure**

- 1<sup>st</sup> phase: submission of chapter proposal (abstract) by **February 25, 2023**: Via email to [patriop@uniovi.es](mailto:patriop@uniovi.es) and [jackyzhang@tju.edu.cn](mailto:jackyzhang@tju.edu.cn) In case of acceptance of the chapter proposal, 2<sup>nd</sup> phase.

- 2<sup>nd</sup> phase: submission of full chapter by **April 25, 2023**: Elsevier online submission system (not set up yet). Elsevier author's guidelines will be sent after acceptance of proposals. The length of the chapters will be approximately 6,500-8,500 words. If you need more space, please contact the editors.

#### **Contact information**

**Patricia Ordóñez de Pablos**

The University of Oviedo, Spain

[patriop@uniovi.es](mailto:patriop@uniovi.es)

**Xi Zhang**

Tianjin University, China

[jackyzhang@tju.edu.cn](mailto:jackyzhang@tju.edu.cn)