

Table of Contents

Open-source Data Analysis and Machine Learning for Asthma Hospitalisation Rates <i>Laura Rooney, Chaloner Chute, William Buchanan, Adrian Smales, and Laura Hepburn</i>	1
Quantitative Analysis of Facial Expression for Medical Doctors <i>Akemi Oe and Yoshitoshi Murata</i>	8
Implantation of Elongated Silicon Neural Probe Array in Rat Cortex <i>Mohamad Hajj-Hassan, Rayan Fayad, Soumaya Berro, Houssein Hajj-Hassan, Sam Musallam, Vamsy P. Chodavarapu, and Hassan M. Khachfe</i>	14
Role of School Administration in Controlling Communicable Diseases <i>Walaa H. Sweid, Ali Al Khatib, Houssein Hajj-Hassan, Mohamad Rached, and Hassan M. Khachfe</i>	18
Data Driven Medical Process Modelling for Privacy Protection in Care Pathways <i>Intidhar Essefi, Hanene Boussi Rahmouni, and Mohamed Fethi Ladeb</i>	24
A Cost-effective BCI Assisted Technology Framework for Neurorehabilitation <i>M A Hannan Bin Azhar, Anthony Casey, and Mohamed Sakel</i>	32
Blessed Health - A Journey From “I-Health” to “We-Health” <i>Srikali Goutam Varanasi</i>	38
Chronic Exposure to Chlorpyrifos alters Spontaneous Motor Activity and Skeletal Muscles Contractility in Young Rats <i>Nancy Hallal, Mohamad Sayed, Wiam Ramadan, Hassan Khachfe, Ali Salami, Maram Saleh, Hiba El Sabbouri, and Wissam Joumaa</i>	41
Impact of Resistance Training in Patients with Chronic Heart Failure <i>Zahra Sadek, Said Ahmaidi, Wissam H. Joumaa, Charifa Awada, Mahmoud Youness, and Wiam Ramadan</i>	44
Eco-Sensors4Health Toolkit: Scaffolding Children Participation in Schools’ Environmental Health <i>Maria Joao Silva, Eduarda Ferreira, Alexandra Souza, and Ana Rita Alves</i>	47
Effect of Communicable Disease on the Performance of Elementary Students: the Case of Leishmaniosis Among Syrian Refugees in Lebanon <i>Firyal J. Zayyoun, Ehssan Sharif-Askari, Wiam Ramadan, Nancy Hallal, and Hassan M. Khachfe</i>	53