

GLOBAL HEALTH 2018

The Seventh International Conference on Global Health Challenges

November 18 - 22, 2018

Athens, Greece

GLOBAL HEALTH 2018 Editors

Hassan Khachfe, Lebanese International University, Lebanon Birgit Gersbeck-Schierholz, Leibniz Universität Hannover, Germany Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2018) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2019)

International Academy, Research, and Industry Association (IARIA) 412 Derby Way Wilmington, DE 19810

Phone: (408) 893-6407 Fax: (408) 527-6351

petre@iaria.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400 Fax: 845-758-2633 Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

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

Firyal J. Zayyoun, Ehssan Sharif-Askari, Wiam Ramadan, Nancy Hallal, and Hassan M. Khachfe