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Adaptations and Lessons from COVID-19: A Perspective on How Some Industries will be Impacted

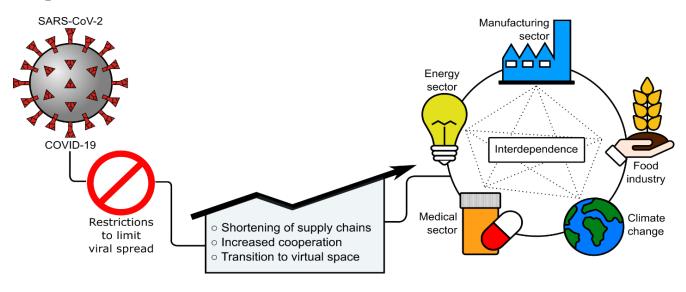
Amar Velic^{1,2}, Alka Jaggessar^{1,2}, Senevirathne Wickramasooriya Mudiyanselage Amal Ishantha Senevirathne^{1,2}, Asha Mathew^{1,2}, Phani Kumari Paritala^{1,2}, Majedul Islam¹, Arpana Gopi Panicker^{1,2}, Karthika Prasad^{1,2}, Jafar Hasan^{1,2} and Prasad KDV Yarlagadda^{1,2,*}

¹Science and Engineering Faculty, Queensland University of Technology, Brisbane, QLD 4000, Australia

*Corresponding and Presenting Author: E-mail: y.prasad@qut.edu.au

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Graphical abstract



²Institute of Health and Biomedical Innovation, Kelvin Grove, QLD 4059, Australia

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Abstract

Since the advent of the novel coronavirus disease (COVID-19), various industrial sectors have been significantly affected. Considering the widespread threat of the SARS-CoV-2 virus, scientists worldwide have been working at a rapid pace to understand the virus, develop vaccines and find possible treatment options. Drastic public health measures such as social distancing, use of PPE, quarantine and complete lockdown have been implemented globally to minimize the spread of the virus. Whilst these measures currently seem the only plausible option, they come at the price of compromised economies. Though there are many collaterally affected industries, this review paper highlights current and forecasted changes in manufacturing, medical, climate change, energy and food processing sectors. Some of these sectors have been positively impacted, such as climate change, whilst others have experienced mixed consequences. Some also face an uphill rebuilding processes, which needs to begin sooner rather than later. This paper highlights important recent developments and perspectives on how industries may adapt and learn from COVID-19.

Biography of Presenting Author



Prasad Yarlagadda worked in industry and university over 35 years in number of countries. He is currently Professor in Smart Systems in Queensland University of Technology, Australia. During past three decades Prof. Yarlagadda his wealth of knowledge in the broad fields of Biomanufacturing, 3-D Printing and Additive Manufacturing to address various Orthopedic and cardio-vascular medical devices problems. He has been honored with Prestigious Great Honour Award for his outstanding and lifetime contribution to the discipline of manufacturing in world Arena from Materials Division of Polish Academy of Sciences. In 2016 he was awarded Order of Australia Medal and included in Queens Birthday

Honours list in recognition of his outstanding service to Engineering Profession and Indian Community in Queensland, Australia. In 2020, Prof. Prasad received Australian Advanced Materials Award from IAAM, Sweden. He is Editor in Chief, and also editorial board member of several Journals. Prof. Prasad had number of community leadership roles as President, Federation of Indian Communities of Queensland; President, The India Australia Society; President, Society of Manufacturing Engineers, (Chapter-209). USA, Chairperson, GOPIO International Science and Technology council are among other leadership positions during past decade.

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