

# **Special Issue on Support Systems for Human Environment Utilizing Sensor Technology and Image Processing Including AI**

## **Call for Papers**

More than 8 billion people live on Earth, working together, living lives, forming communities and countries. The human environment is deteriorating and various problems are arising as the population increases. Research and development is necessary to solve these issues and to create an environment where people can live in a way that enriches their mind and body. A variety of information about the human environment needs to be transmitted and processed in order to live a rich life. The environment can be broadly divided into three categories: the natural environment, social environment, and living environment. These three environments are steadily deteriorating. The climate change caused by global warming and other factors is an important issue that requires urgent consideration and the development of academic solutions. It is causing major disasters such as earthquakes, heavy rains, and typhoons that afflict great damage on the human environment.

The mental and psychological burden on humans increases as technology advances and human life becomes more prosperous. Although living and social environments have improved materially, there are still many aspects in which people are unable to achieve spiritual and psychological satisfaction. There is a particularly urgent need to improve the human environment, which affects people's health, safety, comfort, and convenience. Furthermore, the social factors such as public safety, welfare, education, culture, and community ties, are important issues in the social environment.

For this special issue, we invite papers on technologies that will improve the human environment and lead to the construction of a richer human environment both physically and spiritually. Such a rich human environment could be realized by utilizing cutting-edge technologies such as sensors, IoT, AI, and image processing. Sensors and their peripheral technologies correspond to human senses, support thinking, and contribute to maintaining a healthy mind and body in particular. The information retrieved using those technologies will play an important role in both the material and spiritual aspects of human beings. The fusion of the technologies from the above mentioned fields will create new value and contribute to the human environment. The newly created value will lead to innovation, for which there is a strong demand, especially innovation that is physically and mentally healthy and socially fulfilling. The guest editor sincerely hopes that this special issue will contribute to a rich human environment and looks forward to many papers being submitted.

**Guest editor:** Professor Takashi Oyabu (Nihonkai International Exchange Center)

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Editorial Department of *Sensors and Materials*  
MYU K.K.

1-23-3-303 Sendagi, Bunkyo-ku, Tokyo 113-0022, Japan

Tel: +81-3-3827-8549, Fax: +81-3-3827-8547

Email: [myukk@myu-inc.jp](mailto:myukk@myu-inc.jp)

