

# THE AWARDS ASIA 2021

## Technological Innovation of the Year

<b>Institution name</b>	University of Malakand
<b>Submission title or project name</b>	Independent Navigation System for Visually Impaired Special Persons
<b>Nominee/key personnel</b>	Dr. Nasiara Karim, Director, Quality Enhancement Cell; Dr. Sehat Ullah, Associate Professor, Computer Science and Information Technology
<b>URL</b>	<a href="https://www.youtube.com/watch?v=Xdx9MMyiK48">https://www.youtube.com/watch?v=Xdx9MMyiK48</a>
<b>Submission</b>	<p>The Department of Computer Science and IT at the University of Malakand identified the need of visually impaired students and undertook an initiative to support these students on campus by designing an effective application.</p> <p>The objective of this project was to develop a vision-based software system to assist visually impaired students studying in a variety of departments at the university, so that they could independently navigate in indoor semi-controlled environments.</p> <p>The project benefited university students but has also been extended to other institutions who are educating visually impaired students. Not only this, the application was successfully installed at libraries and museums for guidance and to provide visitors with complete information.</p>