

A.I. Smart Parking Management System, On-line Video education Platform, Al Mocrocope

LightVision AI Solutions



Online Education Platform with Al-based T2B* and B2T**

(even if visually acute teachers do not know braille, they can teach math/science to visually impaired students)



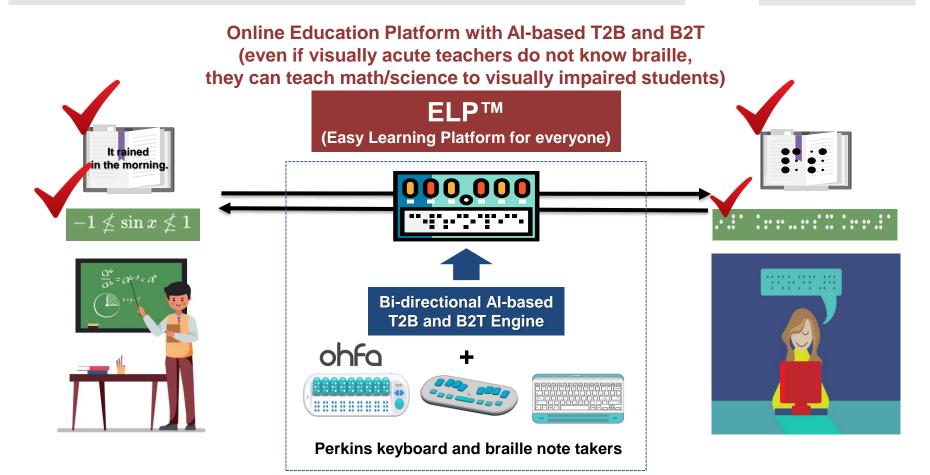


Development Background of ELPTM

- In a pandemic situation like COVID-19, visually impaired people cannot access online education
- Limited number of special education teachers who know braille
- Incorrect text to braille translation results (converting small information to large information)
 - Impossible to communicate with teachers who do not know braille
- Math/science education for the visually impaired is very hard due to the absence of math/science T2B and B2T translation S/W



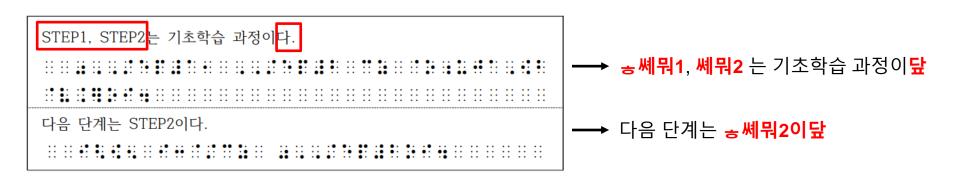
Neglecting online education for the visually impaired





Examples of communication failures due to B2T translation errors

If Korean + English + punctuation marks are mixed, communication failures occurred due to B2T translation errors



학습방법의 Tip
Partl의 1일차 학습분량을 소화하고 난 후, TEST-기출문제로 복습하세요

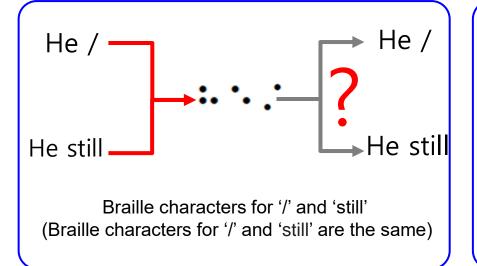
학습방법의 공설둬

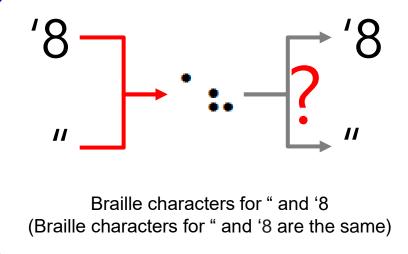
→ ᇂ ^ 뤄1의 1일차 학습분량을 소화하고 난 후,
르 ᇂ 썰맜기출문제로 복습하세욮



Problem Analysis

Since the 1:1 correspondence relationship between text and braille is not established, correct translation of braille is difficult with the existing character replacement method.



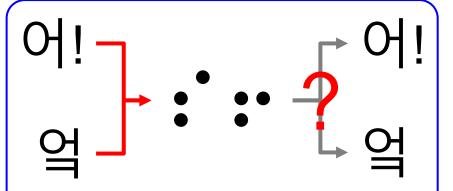


Example Sentences in Braille	Braille Translation Results
	He still meets his wife
** : : : : : : : : : :	He / meets his wife
The Principal of the State of the	" hundreds of people "
" "Thaboak bu hobble ""	'8 hundreds of people '8

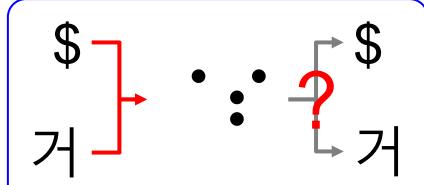


Problem Analysis

Since the 1:1 correspondence relationship between text and braille is not established, correct translation of braille is difficult with the existing character replacement method.



Braille characters for '어!' and '엌' (Braille characters for '!' and 'ㅋ' are same)

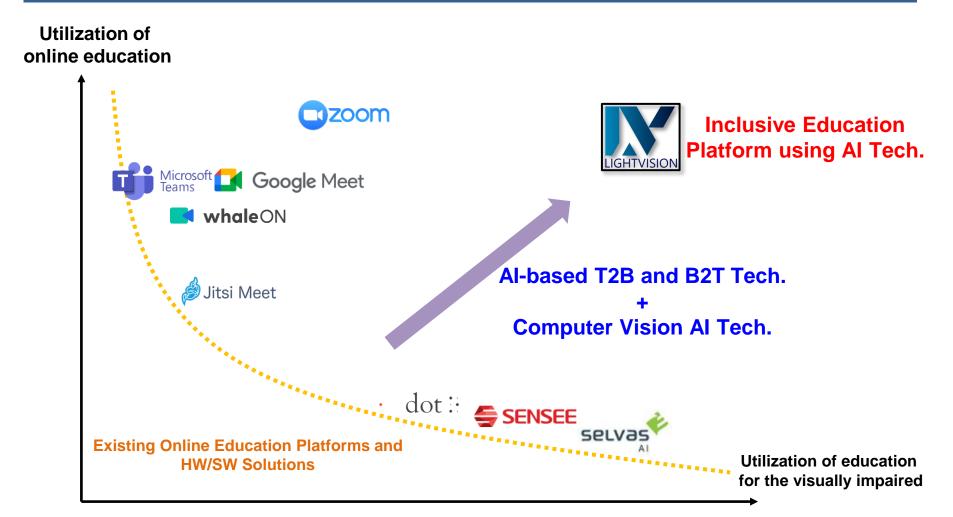


Braille characters for '\$' and '거' (Braille characters for dollar and '거' are same)

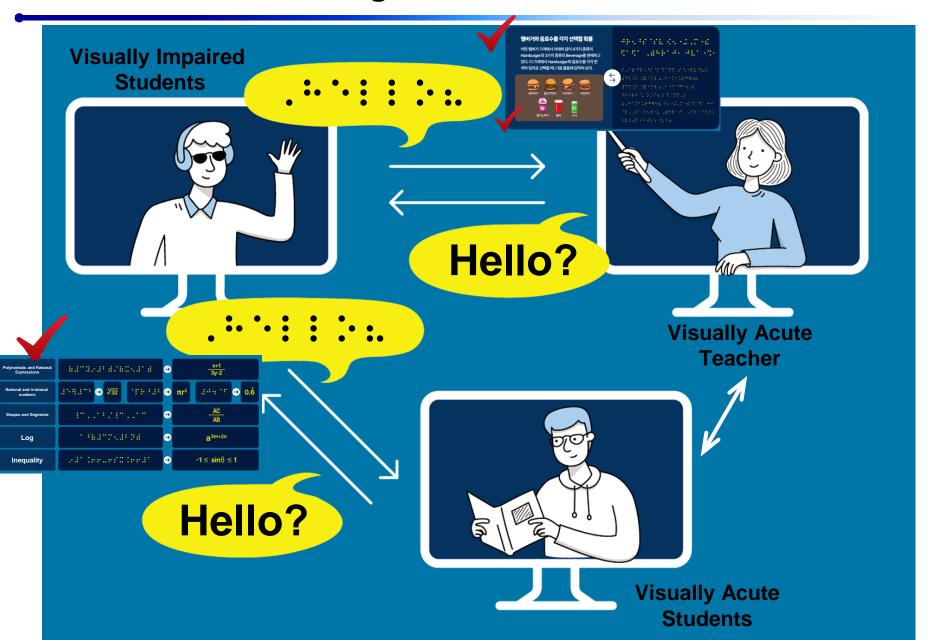
Example Sentences in Braille	Braille Translation Results
+= .::: .: .: :: ::	탕수육 소스 부어!
<u> </u>	탕수육 소스 부엌에서 가져와라
······································	\$100 is expensive.
************	거미는 절지동물이다.

Positioning Map of Online Education Platform

Online education platform that provides T2B and B2T services that can be used by both visually impaired and visually acute people



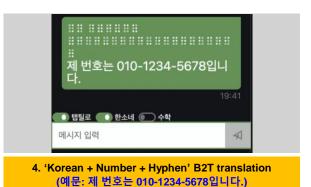
Online Education Diagram for Inclusive Education



Video Demo for Implemented Service (including Al-based B2T translation)









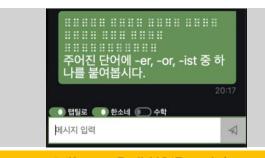
2. 'Korean + Symbol' B2T translation (예문: 경유는 47%, 휘발유는 25% 올랐네!)



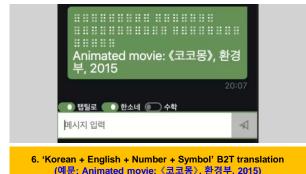
Video Demo for Implemented Service

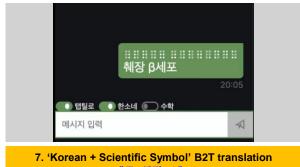


3. 'Korean + Number' B2T translation (예문: 2013년에는 3학년이었다.)



5. 'Korean + English' B2T translation (예문: 주어진 단어에 er, -or, -ist 중 하나를 붙여봅시다.)





(예문: 췌장 β세포)



8. 'Math Symbol' B2T translation (예문: 5m²)

Service Model Diagram

