DHIP 2018 Hotel Information:

There are many hotels close to the conference site.

RIHGA Royal Hotel (JPY 12,000~) is the closest to the conference site.
https://www.rihga.com/osaka
https://www.rihga.com/kr

Also, the area around Higobashi metro stations may be convince for you to go to the conference site.
Around Higobashi station.

1. APA Hotel Osaka Higobashi Ekimae (JPY 6,500~)

2. Super Hotel Umeda Higobashi (JPY 8,800~)
   http://www.superhoteljapan.com/kr/s-hotels/umeda/

3. RIHGA Nakanoshima Inn (JPY 7,500~)
   https://www.rihga.com/osakainn
   https://www.rihga.com/kr/osakainn

Around Umeda station

1. Hotel New Hankyu Osaka (JPY 15,000~)
   https://global.hankyuhotel.com/new-hankyu-osaka/
   https://global.hankyuhotel.com/new-hankyu-osaka/ko/

2. Hotel Granvia Osaka (JPY 15,000~)
   https://www.hotelgranviosaledoaka.jp/en
   https://www.jrwesthotels.com/ko/hotels/osaka/

Above hotels are just examples.
There are many other hotels around the conference site.
Please check yourself with Booking.com, Hotels.com, and so on.