



## Personalize Expedia Hotel Searches - ICDM 2013

Learning to rank hotels to maximize purchases

\$25,000 · 337 teams · 4 years ago

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### Overview

#### Description

#### Evaluation

#### Prizes

#### Timeline

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Expedia is the world's largest online travel agency (OTA) and powers search results for millions of travel shoppers every day. In this competitive market matching users to hotel inventory is very important since users easily jump from website to website. As such, having the best ranking of hotels ("sort") for specific users with the best integration of price competitiveness gives an OTA the best chance of winning the sale.

For this contest, Expedia has provided a dataset that includes shopping and purchase data as well as information on price competitiveness. The data are organized around a set of "search result impressions", or the ordered list of hotels that the user sees after they search for a hotel on the Expedia website. In addition to impressions from the existing algorithm, the data contain impressions where the hotels were randomly sorted, to avoid the position bias of the existing algorithm. The user response is provided as a click on a hotel or/and a purchase of a hotel room.

Appended to impressions are the following:

- 1) Hotel characteristics
- 2) Location attractiveness of hotels

3) User's aggregate purchase history

4) Competitive OTA information

Models will be scored via performance on a hold-out set.

## Leaderboard



1 commendo - part of Opera Solutions

2 Owen

3 Jun Wang@UniGe

4 idle\_speculation

5 Bing Xu & MLRush & BrickMover

6 Datrik Intelligence

7 AuroraXie

8 n\_m & Pacific Rim

## 92 discussion topics



### Randomized Search Order

0 replies · 2 months ago

### Data usage for research

3 replies · 4 months ago

### Data Usage beyond the contest

42 replies · 5 months ago

### Dataset Variables Description

1 reply · a year ago

### Question about impressions

2 replies · a year ago

Launch

4 years ago

Close

4 years ago



337

Teams

409

Competitors

Points This competition awarded standard [ranking points](#)

Tiers This competition counted towards [tiers](#)