The Intelligence of China Railway Passenger Transport Station and its Application in Practice

Meng Fadong
China State Railway Group Co., Ltd.
Director
Introduction

"Four Vertical and Four Horizontal" high-speed railway network in China

"Eight Vertical and Eight Horizontal" high-speed railway network in China
Introduction

The growth trend of passengers sent by high-speed trains and Multiple Units trains from 2007 to 2018

**Number of passengers sent (unit: 100 million)**

- Total number of passengers sent
- High-speed trains and Multiple Units trains send the total number of passengers

<table>
<thead>
<tr>
<th>Year</th>
<th>Total number of passengers sent</th>
<th>High-speed trains and Multiple Units trains send the total number of passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>5.12%</td>
<td>0.00%</td>
</tr>
<tr>
<td>2008</td>
<td>9.75%</td>
<td>5.00%</td>
</tr>
<tr>
<td>2009</td>
<td>13.02%</td>
<td>9.97%</td>
</tr>
<tr>
<td>2010</td>
<td>19.26%</td>
<td>13.69%</td>
</tr>
<tr>
<td>2011</td>
<td>24.28%</td>
<td>19.17%</td>
</tr>
<tr>
<td>2012</td>
<td>28.13%</td>
<td>22.45%</td>
</tr>
<tr>
<td>2013</td>
<td>33.16%</td>
<td>27.11%</td>
</tr>
<tr>
<td>2014</td>
<td>39.41%</td>
<td>32.88%</td>
</tr>
<tr>
<td>2015</td>
<td>49.56%</td>
<td>43.20%</td>
</tr>
<tr>
<td>2016</td>
<td>53.02%</td>
<td>45.18%</td>
</tr>
<tr>
<td>2017</td>
<td>57.41%</td>
<td>47.19%</td>
</tr>
<tr>
<td>2018</td>
<td>61.54%</td>
<td>48.85%</td>
</tr>
</tbody>
</table>
What is the smart station brain?

Intelligent Passenger Station Passenger Service and Production Control Platform

1. Convenient service for passengers
2. Efficient production organization
3. Secure real-time protection
4. Centralized management of equipment
Intelligent smart station brain application scenario

— Convenient service for passengers

- Entering the train station depends on artificial intelligence technology
- Intelligent query robot
- Key passenger service information is completely covered
- Unified ordering platform by the Internet

Convenient service for passengers
Intelligent smart station brain application scenario

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Efficient production organization

- Shared passenger service data
- Provide a full range of information services to passengers in real time
- Adapt to business handling under multiple scenarios

Passenger flow real-time statistics

Train late information inquiry
Intelligent smart station brain application scenario

——— Secure real-time protection

Risk monitoring

Emergency assistance decision

Dangerous monitoring
Intelligent smart station brain application scenario
———Centralized management of equipment

Dynamic monitoring of equipment operating status in the station

Propose a self-discipline management strategy for large energy equipment

Analyze equipment operation and maintenance plan and propose equipment maintenance strategy
Achievement

- Precise management of production factors
- Maximize resource utilization
- Data sharing
Outlook

- Ticketing service based on speech recognition
- Mobile-based recommendation service
- Artificial intelligence assistant
- 5G-based equipment operation and maintenance
- Emergency treatment based on artificial intelligence
- Tacking train based on face recognition
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Welcome to Beijing

Thank you
for your kind attention