

Development Trends of Facial Recognition Patents for Automotive Applications

<https://marketpublishers.com/r/D6565353C91EN.html>

Date: August 2018

Pages: 23

Price: US\$ 1,600.00 (Single User License)

ID: D6565353C91EN

Abstracts

The adoption of facial recognition in automobiles is still at the initial stage and the industry is still exploring and testing related technologies and usage scenarios. While vendors are excited about developing new products, applying facial recognition to automobiles needs to consider security issues and thus requires more validation and consideration. As a result, the number of use cases has remained low. This report provides insights into the development of facial recognition-related granted patents for automotive applications and offers a snapshot of facial recognition-based technology and application trends in the automotive industry.

Contents

1. DEVELOPMENT OF FACIAL RECOGNITION TECHNOLOGY FOR AUTOMOBILES

- 1.1 Widespread Use of Biometric Technologies in Automotive Applications
- 1.2 Smart Cars Bringing New Opportunities for Facial Recognition

2. DEVELOPMENT OF FACIAL RECOGNITION PATENT APPLICATIONS

- 2.1 Patent Search
- 2.2 Trends in Patent Applications
 - 2.2.1 US and Japan Jointly Hold Over 80% of USPTO Patent Grants
 - 2.2.2 Majority of Assignees are Automobile Vendors

3. DEVELOPMENT TRENDS OF FACIAL RECOGNITION TECHNOLOGY AND APPLICATION AREAS

- 3.1 Applications Focus Mainly on Facial Detection
- 3.2 Majority of Patent Grants are for Security Purposes
 - 3.2.1 60% of Patent Grants Are on Driving Safety Enhancement
 - 3.2.2 Driver's Attention Level is Enhanced
 - 3.2.3 Potential Causes of Distracted Driving is Reduced
 - 3.2.4 System Operation Enhancement as Another Key Development Focus
- 3.3 Other Applications
 - 3.3.1 Entertainment
 - 3.3.2 Employee Performance or Insurance Fee Assessment for Private Companies

4. CONCLUSION

Appendix
Glossary of Terms

LIST OF COMPANIES

Advicy Drive
Affectiva
BMW
Bosch

Conduent
Denso
Disney
Empatica
Fiat Chrysler
Ford
Gentex
Gestigon
GM
Harman
Honda
Hyundai
IBM
Jaguar Land Rover
Lexus
Lytx
Omron
Outerspace Design
Panasonic
Samsung
Seeing Machines
Sober Steering
Synaptics
Thanko
Toyota
Vigo
VocalZoom
Xeron

List Of Tables

LIST OF TABLES

Table 1 Biometric Recognition Technologies Adopted in Automotive Industry

Table 2 Patent Search Settings and Results

List Of Figures

LIST OF FIGURES

Figure 1 Distribution of Facial Recognition Patent Grants by Country of Origin

Figure 2 Distribution of Patent Grants by Assignee

Figure 3 Major Purposes of Facial Recognition for Automotive Applications

Figure 4 Steps in the Facial Recognition Process

Figure 5 Facial Recognition Patents for Automotive Applications by Technology Type

Figure 6 Facial Recognition Patents for Automotive Applications by Application

(Excluding Law Enforcement Applications in Public Sectors or Business Applications in Private Sectors)

Figure 7 Patent Title: Sensing and Managing Vehicle Behavior Based on Occupant Awareness

Figure 8 Patent Title: Adjusting Speakers Using Facial Recognition Technology

I would like to order

Product name: Development Trends of Facial Recognition Patents for Automotive Applications

Product link: <https://marketpublishers.com/r/D6565353C91EN.html>

Price: US\$ 1,600.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/D6565353C91EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970