

# ISO 37183:2023-10 (E)

## Smart community infrastructures - Smart transportation by facial recognition payment (f-payment)

---

<b>Contents</b>	<b>Page</b>
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Concept of smart transportation by f-payment</b> .....	<b>1</b>
4.1 Background.....	1
4.2 F-payment application in transportation and its related services.....	2
4.3 Target city issues.....	3
4.4 Expected effectiveness.....	3
4.4.1 General.....	3
4.4.2 Customers who will benefit from f-payment.....	3
4.4.3 F-payment effectiveness in the service sector.....	4
4.4.4 F-payment effectiveness in other situations.....	4
4.5 Satisfying the UN Sustainable Development Goals.....	4
<b>5 Facial recognition procedures in smart transportation by f-payment</b> .....	<b>4</b>
5.1 General.....	4
5.2 Facial recognition procedure.....	5
5.2.1 General.....	5
5.2.2 Facial image acquisition.....	5
5.2.3 Benchmark images.....	5
5.2.4 Facial feature extraction.....	5
5.2.5 Facial comparison.....	5
5.2.6 Pictograms, icons and symbols.....	5
5.2.7 Databases for f-payment.....	5
5.2.8 Personal privacy protection.....	5
5.2.9 Privacy risk management.....	6
<b>6 Organization of smart transportation by f-payment</b> .....	<b>6</b>
6.1 General.....	6
6.2 Facial recognition management.....	7
6.2.1 Facial image registration.....	7
6.2.2 Facial detection.....	7
6.2.3 Facial image re-registration.....	7
6.2.4 Withdrawal from f-payment services.....	7
6.3 Security for facial recognition attacks.....	7
6.3.1 Types of facial recognition attacks.....	7
6.3.2 Facial duplication protection.....	8
6.4 Security for f-payment money transfer.....	8
6.5 Privacy protection.....	9
<b>7 Maintenance of the quality of smart transportation by f-payment</b> .....	<b>9</b>
7.1 General.....	9
7.2 Parameters to be observed.....	9
7.3 Modification of smart transportation services.....	9
<b>Bibliography</b> .....	<b>10</b>