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Service robot — Vocabulary

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Japan Robot Association (JARA)/Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Service robot—Vocabulary

1 Scope This Japanese Industrial Standard defines a vocabulary of main terms to be used concerning service robots.

2 Normative references The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. If the indication of the year of coming into effect is given to these referred standards, only the edition of the indicated year constitutes the provision of this Standard but the revision and amendment made thereafter do not apply.

JIS B 0134:1998 *Manipulating industrial robots—Vocabulary*

JIS B 0185:2002 *Intelligent robots—Vocabulary*

3 Division of terms The terms used for service robots are divided as follows:

- a) General
- b) Classification
 - 1) Form
 - 2) Use
- c) Essential technologies
 - 1) Human interface
 - 2) Environmental sensing
 - 3) Operational technique
 - 4) Actuator material
 - 5) Performance and assessment
 - 6) Intelligence
 - 7) Safety and reliance
 - 8) Control

4 Terms and definitions For the purpose of this Standard, the following terms and definitions apply.

NOTE : The term in parenthesis means that it has similar meaning and either of two terms is effective.

a) General

No.	Term (Japanese character)	Reading	Definition	English equivalent
1100	サービスロボット	SÂBISU ROBOTTO	robots to service human beings	service robot
1200	人間共存形ロボット	NINGEN KYÔZONGATA ROBOTTO	robots of which the acting area of work joins with a human beings acting area of work	human-symbiotic robot

b) Classification

1) Form

No.	Term (Japanese character)	Reading	Definition	English equivalent
2110	人間形ロボット	NINGENGATA ROBOTTO	a robot having a human-like apparent shape and function	humanoid robot
2120	2足走行ロボット	NISOKUHOKÔ ROBOTTO	a robot travelling on two legs	biped walking robot
2130	顔ロボット	KAO ROBOTTO	a robot possessed of eyes, ears, mouth, etc. that can represent the variation simi- lar to a human facial expres- sion	face robot
2140	動物形ロボット	DÔBUTUGATA ROBOTTO	a robot having such an ani- mal-like apparent shape and function as four legs, a snake-like form, or that like an elephant trunk	animal type robot
2150	昆虫形ロボット	KONTYÛGATA BOBOTTO	a robot having an insectile apparent shape and function such as six legs	insect type robot
2160	マイクロロボット	MAIKURO ROBOTTO	robots of small size under the order of one centimeter	micro robot system
2170	群ロボット	GUN ROBOTTO	two or more robots behaving with the same intention	multiple robots
2180	ユビキタスロボット	YUBIKITASU ROBOTTO	two or more robots connected together in a network that can be used in common with- out any incompatibility	ubiquitous robot

2) Use

No.	Term (Japanese character)	Reading	Definition	English equivalent
2210	ホームロボット	HÔMU ROBOTTO	a robot to be used in house- hold	home robot/ domestic robot
2220	福祉ロボット	HUKUSI ROBOTTO	a robot to be used in the field of welfare	rehabilitation robot
2230	医療ロボット	IRYÔ ROBOTTO	a robot to support various medical acts	medical robot
2240	アミューズメントロ ボット (エンタテイ メントロボット)	AMYÛZUMENTO ROBOTTO (ENTATEIMENTO ROBOTTO)	a robot to amuse human beings	amusement robot/ entertainment robot
2250	メンテナンス ロボット	MENTENANSU ROBOTTO	a robot to perform mainte- nance task	maintenance robot
2260	災害対応ロボット	SAIGAI TAIÔ ROBOTTO	a robot to be used in such a field of disaster relief as res- cue activity and firefighting	disaster response robot