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4[B] Robot Manners Lesson 14 G2 Chobun TypeB eTOC のレッスン以外で使用禁止 11.1(4B)A2E

1. As robot technology improves, robots are becoming an increasingly important part of
2. our daily lives.
3. Robots, of course, have many advantages over human beings.
4. They work hard, never need to rest, do not complain, and do not need to be paid.
5. Moreover, by performing simple tasks, they make it possible for human workers to
6. focus on jobs that require more skill.
7. Yet as more robots enter the work place, their creators face a new problem—how to
8. design them so that human beings can get along with them.

Further Questions & Sample Answers

9. 1) What're some advantages of using robot workers over human workers?
10. *Robots will work harder, don't need to rest and don't need to be paid.*
11. A typical robot today is TUG, which is now used in more than 50 hospitals in the
12. United States.

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25. *TUG can carry items, push carts and deliver messages and remember how to find its*
26. *way through the building.*
27. 4) How does a person use TUG?
28. *They put the item on the robot and select where they want it to go.*



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29. Unfortunately, not all hospital workers like TUG.
30. Bilge Mutlu, a specialist in human-robot interactions at the University of
31. Wisconsin—Madison, studied the reaction of workers to TUG in one hospital.
32. He found that many people disliked the robot's lack of manners.
33. For example, when a human being delivers a message to someone who is talking on
34. the telephone, he or she will usually wait until the person on the phone is free.
35. TUG simply interrupts the call and loudly announces, "TUG has arrived."

Further Questions & Sample Answers

36. 5) Why do workers feel that TUG is impolite?
37. *TUG will interrupt them when they're on the phone and used to continue to be just as*
38. *loud at night as during the day.*

39.

40. Aethon, the company that makes TUG, is taking Mutlu's research seriously.
41. Aethon already programmed TUG to speak more quietly at night. However, it is very
42. difficult to program a robot to be polite.
43. One possible answer, being developed by scientists at the University of Washington, in
44. Seattle, is a program that allows robots to analyze and imitate human behavior.
45. This will only work, however, if the human beings that the robots copy are themselves
46. behaving politely.

Further Questions & Sample Answers

47. **6)** What's the goal of the team of scientists at the University of Washington mentioned in this article?
48. *They want robots to be able to learn human behavior and copy it.*
49. **7)** What would you do with a robot if you had one?
50. *I would want a robot that would do the grocery shopping for me and do cooking for me.*
51. **8)** What's a rule you could teach to a robot to help it be more polite?
52. *Call people by their own names and recognize people's moods and respond to them*

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64. **(39)** Bilge Mutlu discovered that people in one hospital
65. **1** felt that the way TUG acted as impolite.
66. **2** disliked it when TUG came too close to them.
67. **3** refused to listen to TUG's messages.
68. **4** thought that TUG worked too hard.
69. **(40)** What are some scientists trying to do?
70. **1** Use robots to teach people how to be more polite to each other.
71. **2** Program robots to behave more like human beings.
72. **3** Analyze the reasons why robots sometimes stop working.
73. **4** Design robots that do more work at night than they do in the day.

Review Questions

74. **1)** What're some advantages of using robot workers over human workers?
75. *Robots will work harder, don't need to rest and don't need to be paid.*

76. **2) What's TUG?**

77. *TUG's a robot designed for bringing items from one place to another in a building so*
 78. *that people can concentrate on their own jobs.*

79. **3) What kind of things does TUG do?**

80. *TUG can carry items, push carts and deliver messages and remember how to find its*
 81. *way through the building.*

82. **4) How does a person use TUG?**

83. *They put the item on the robot and select where they want it to go.*

84. **5) Why do workers feel that TUG is impolite?**

85. *TUG will interrupt them when they're on the phone and used to continue to be just as*
 86. *loud at night as during the day.*

87. **6) What's the goal of the team of scientists at the University of Washington mentioned in this article?**

88. *They want robots to be able to learn human behavior and copy it.*

89. **7) What would you do with a robot if you had one?**

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95. As robot 科学技術 (かがくぎじゆつ) technology よくなる improves, robots are becoming an ますます increasingly 大切 (たいせつ) な important

96. part of our 毎日 (まいにち) の 生活 (せいかつ) daily lives .

97. Robots, of course, have many もちろん advantages 利点 (りてん) over 人類 (じんるい) human beings. They work hard,

98. 一度 (いちど) も~ない never 休 (やす) み need to rest , do not 不満 (ふまん) を言う complain , and do not need to be 払 (はら) う paid .

99. Moreover, by さらに performing 実行 (じっこう) する simple 仕事 (しごと) tasks , they make it 可能 (かのう) な possible for human workers

100. to 集中 (しゆうちゆう) する focus on ~を必要 (ひつよう) する jobs that 製作者 (せいさくしゃ) ~に直面 (ちよくめん) する require ~の仕方 (しかた) more skill. Yet as more robots enter the

101. work place, their ~するために creators うまくやっていく face うまくやっていく a new problem— ~の仕方 (しかた) how to ~の仕方 (しかた) design them

102. so that human beings can うまくやっていく get along with them.

Further Questions& Sample Answers

103. **1) What are some advantages of using robot workers over human workers?**

104. 人間 (にんげん) の労働者 (ろうどうしゃ) を超えて (こ) ロボット (ろぼと) を使う (つか) 利点 (りてん) は何 (なに) ですか。

105. *Robots will work harder, do not need to rest and do not need to be paid.*

典型的 (てんけいてき) な

~以上 (いじょう)

病院 (びょういん)

106. A typical robot today is TUG, which is now used in more than 50 hospitals in
107. the United States.

車輪 (しゃりん)

~することができる 運 (はこ) ぶ

おす

108. TUG is a box-like robot on wheels that is able to carry things, push carts, and

届 (とど) ける

覚 (おぼ) える すべての

場所 (ばしょ)

109. deliver messages. TUG is programmed to remember all the places in a hospital.

願 (ねが) う

他 (ほか) の

例 (たと) えば

~の代 (か) わりに

110. When a nurse wishes to send something to another nurse, for example, instead of

無駄 (むだ) な

選 (えら) ぶ

目的地 (もくてち)

111. having to waste time carrying it, he or she puts it on TUG, selects the destination,
112. and the robot goes there on its own.

許 (ゆる) す

労働者 (ろうどうしゃ)

113. Hospital managers like TUG because it allows hospital workers to

全力 (ぜんりょく) を注 (そそ) ぐ

本来 (ほんらい)

114. concentrate on the jobs they were originally trained to do.

Further Questions& Sample Answers



115. 2) What is TUG? TUGは何ですか。

なん

116. TUG is a robot designed for bringing items from one place to another in a building so
117. that people can concentrate on their own jobs.

118. 3) What kind of things does TUG do? TUGはどのようなことをしますか。

こと

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129. TUG simply interrupts the call and loudly announces, "TUG has arrived."

Further Questions& Sample Answers

130. 5) Why do workers feel that TUG is impolite? なぜ労働者はTUGを無礼と感じるのですか。

無礼 (ぶれい) な

なぜ労働者 (ろうどうしゃ)

はTUGを

無礼 (ぶれい)

と感じる (かん) のですか。

妨害 (ぼうがい) する

131. TUG will interrupt them when they are on the phone and used to continue to be
132. just as loud at night as during the day.

続 (つづ) ける

133.

会社 (かいしゃ)

134. Aethon, the company that makes TUG, is taking Mutlu's research seriously.

まじめに

すでに

より 落 (お) ち着 (つ) いて

135. Aethon already programmed TUG to speak more quietly at night.

しかしながら

礼儀 (れいぎ) 正 (ただ) しい

136. However, it is very difficult to program a robot to be polite .

可能 (かのう) な

発展 (はってん) した

科学者 (かがくしゃ)

137. One possible answer, being developed by scientists at the University of

許 (ゆる) す

分析 (ぶんせき) する

まねる

138. Washington, in Seattle, is a program that allows robots to analyze and imitate

ふるまい

139. human behavior.

140. This will only work, however, if the human beings that the robots copy are themselves

ふるまう

礼儀 (れいぎ) 正 (ただ) しく

141. behaving politely .

Further Questions & Sample Answers



目標 (もくひょう)

142. **6)** What is the **goal** of the team of scientists at the University of Washington mentioned in this article? この記事を言及したワシントン大学の科学者のチームの目標は何ですか。

143. *They want robots to be able to learn human behavior and copy it.*

144. **7)** What would you do with a robot if you had one? もしあなたがロボットを持っていたら何がしたいですか。

145. *I would want a robot that would do the grocery shopping for me and do cooking for me.*

146. **8)** What is a rule you could teach to a robot to help it be more polite?

147. あなたがロボットにもっと礼儀正しくなるよう教えることができる法則は何ですか。

148. *Call people by their own names and recognize people's moods and respond to them differently accordingly.*

149. **(37)** What will robot designers need to do from now on?

150. **1** Pay robots for performing simple tasks.

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161. **2** disliked it when TUG came too close to them.

拒否 (きょひ) した

162. **3** refused to listen to TUG's messages.

163. **4** thought that TUG worked too hard.

164. **(40)** What are some scientists trying to do?

165. **1** Use robots to teach people how to be more polite to each other.

振 (ふ) る舞 (ま) う ~のように

166. **2** Program robots to behave more like human beings.

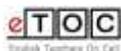
分析 (ぶんせき) する 時々 (ときどき)

167. **3** Analyze the reasons why robots sometimes stop working.

~より

168. **4** Design robots that do more work at night than they do in the day.

Review Questions



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187. *Call people by their own names and recognize people's moods and respond to them*
188. *differently accordingly.*

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