
e 共通テスト

長文英語対策

問題集 01

難易度：やや難

内容

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日本語に合わせて、英語を並べ替えて下さい。解答は 8, 9 ページにあります。

1. ロボット研究は魅力的で変革的な分野ですが、複雑さや困難がないわけではありません。
a captivating
and difficulties.
and transformative field,
but it is not
robot research is
without its complexities

2. このエッセイでは、研究者が従わなければならない無数の課題について述べ、この厳しい領域で解決策を導き出すためには、決断力、創造性、革新性を備える必要性を強調しています。

I will describe the myriad challenges
determination, creativity, and innovation
emphasizing the need to persevere
in this essay,
that researchers must submit to,
to approximate solutions in this demanding domain.

3. ロボット研究における主な課題の 1 つは、解決すべき問題の複雑な性質です。

in robot research is
of the problems to be solved.
one of the primary challenges
the intricate nature

4. 研究者は複雑なアルゴリズム、複雑な仕組み、多面的なセンサーシステムといった迷路を、しばしば通り抜けなければなりません。

and multifaceted sensor systems.
intricate mechanics,
researchers must often navigate
through a maze of complex algorithms,

5. このような課題には、コンピュータサイエンスから工学に至るまで、さまざまな学問分野の深い理解が必要であり、ロボット研究を要求が高く、知的に厳しい取り組みにしています。

a deep understanding of various disciplines,
a demanding and intellectually
from computer science to engineering,
making robot research
rigorous endeavor.
these challenges require

6. ロボット研究の利便性は、産業界に革命をもたらす可能性があることから明らかですが、同時に課題もあります。

also poses challenges.
the convenience of robot research,
to revolutionize industries,
while evident in its potential

7. 人間環境に途切れなく溶け込み、自律的に用事をこなすロボットを開発することは、並大抵のことではありません。

and perform tasks autonomously
developing robots
into human environments
is no small feat.
that can seamlessly integrate

8. それは広範なテスト、改良、安全性への配慮を必要とします。

and safety considerations.
extensive testing,
it demands
refinement,

9. ロボットが効果的で安全であることを保証するには、細部にまで細心の注意を払う必要があり、研究プロセスの複雑になります。

adding to the intricacy
both effective and safe
ensuring that robots are
of the research process.
requires meticulous attention
to detail,

10. もうひとつの重要な課題は、進化し続ける技術の状況があります。

landscape of technology.
is the ever-evolving
another significant challenge

11. ロボット工学の分野はダイナミックでペースが速いため、研究者は常に最新の進歩についていく努力をしなければいけません。

as the field of robotics is
dynamic and fast-paced.
researchers must constantly strive
to keep up with the latest advancements,

12. これは、継続的な学習と新しい道具、手法、枠組みへの適応を必要とし、継続的な教育と技術開発への確約が不可欠です。

and adaptation to new tools,
and skill development.
making it imperative
methods, and paradigms,
this necessitates ongoing learning
to continuous education
to reserve a commitment

13. ロボットに人間のような能力を近づけることは、ロボット研究の基本的な目標ですが、それは絶え間ない技術革新が必要な課題です。

that requires relentless innovation.
is a fundamental objective
in robot research,
but it is a challenge
approximating human-like capabilities in robots

14. 人間レベルの器用さを達成するにしても、自然言語を理解するにしても、社会的相互作用を再現するにしても、研究者は技術的に実現可能なことの限界を常に押し広げなければいけません。

of what is technically feasible.
or replicating social interactions,
researchers must continuously push the boundaries
understanding natural language,
whether it's achieving human-level dexterity,

15. 近似性の追求は、障害や挫折、忍耐の必要性に満ちた終わりのない旅です。

and the need
filled with obstacles, setbacks,
for perseverance.
is a never-ending journey
the pursuit of approximation

16. ロボット研究の学際性は、諸刃の剣にもなり得ます。

a double-edged sword.
can also be
of robot research
the interdisciplinary nature

17. それは共同作業や多様な視点の機会を提供する一方で、意思の疎通や統合の難しさをもたらす可能性もあります。

communication and integration challenges.
for collaboration and diverse perspectives,
it can also pose
while it offers the opportunity

18. 様々な背景を持つ研究者が異なる優先順位や方法論を持っている可能性があり、これらの障壁を克服するためには効果的な調整とチームワークが必要となります。

and methodologies,
and teamwork
may have different priorities
requiring effective coordination
researchers from various backgrounds
to overcome these barriers.

19. さらに、ロボット研究においては倫理的配慮が最も重要です。

are paramount
ethical considerations
furthermore,
in robot research.

20. ロボットの能力が向上し、社会に溶け込むにつれて、ロボットが雇用やプライバシー、さらには人間関係に与える影響についての疑問が生じます。

and even human relationships arise.
as robots become
more capable and integrated into society,
on employment, privacy,
questions about their impact

21. 研究者はこうした複雑な倫理的ジレンマを乗り越え、ロボットの設計と展開に関する倫理的ガイドラインを作成する責任を負わなければいけません。

and submit to the responsibility
for robot design and deployment.
of developing ethical guidelines
researchers must navigate
these complex ethical dilemmas

22. 結論として、ロボット研究は、技術的にも倫理的にも数多くの課題に満ちた分野です。

both technical and ethical.
filled with numerous challenges,
in conclusion,
robot research is a field

23. 研究者は、複雑な問題を説明し、絶え間ない革新の追求に従い、これらのハードルを克服するための決意と創造性を確保しなければいけません。

and reserve their determination and creativity
researchers must describe
submit to the relentless pursuit of innovation,
the intricate problems,
to overcome these hurdles.

24. ロボット工学の利便性は、産業を再構築し、生活を向上させる可能性を秘めている一方で、細部への細心の注意と、技術進歩の最前線に立ち続けるという約束が要求されます。

and a commitment to staying at the forefront
for meticulous attention to detail
it comes with the demand
of technological advancements.
the potential to reshape industries and improve lives,
while the convenience of robotics has

25. このような課題にもかかわらず、ロボット研究はスリリングでやりがいのある取り組みであり続け、ロボットが人間の存在を向上させる未来を形作る約束を提供しています。

a thrilling and rewarding endeavor,
despite these challenges,
human existence.
offering the promise of shaping a future
robot research remains
where robots enhance

(476 words)

並べ替え問題解答

1. Robot research is a captivating and transformative field, but it is not without its complexities and difficulties.
2. In this essay, I will describe the myriad challenges that researchers must submit to, emphasizing the need to reserve determination, creativity, and innovation to approximate solutions in this demanding domain.
3. One of the primary challenges in robot research is the intricate nature of the problems to be solved.
4. Researchers must often navigate through a maze of complex algorithms, intricate mechanics, and multifaceted sensor systems.
5. These challenges require a deep understanding of various disciplines, from computer science to engineering, making robot research a demanding and intellectually rigorous endeavor.
6. The convenience of robot research, while evident in its potential to revolutionize industries, also poses challenges.
7. Developing robots that can seamlessly integrate into human environments and perform tasks autonomously is no small feat.
8. It demands extensive testing, refinement, and safety considerations.
9. Ensuring that robots are both effective and safe requires meticulous attention to detail, adding to the intricacy of the research process.
10. Another significant challenge is the ever-evolving landscape of technology.
11. Researchers must constantly strive to keep up with the latest advancements, as the field of robotics is dynamic and fast-paced.
12. This necessitates ongoing learning and adaptation to new tools, methods, and paradigms, making it imperative to reserve a commitment to continuous education and skill development.
13. Approximating human-like capabilities in robots is a fundamental objective in robot research, but it is a challenge that requires relentless innovation.
14. Whether it's achieving human-level dexterity, understanding natural language, or replicating social interactions, researchers must continuously push the boundaries of what is technically feasible.
15. The pursuit of approximation is a never-ending journey filled with obstacles, setbacks, and the need for perseverance.
16. The interdisciplinary nature of robot research can also be a double-edged sword.

17. While it offers the opportunity for collaboration and diverse perspectives, it can also pose communication and integration challenges.
18. Researchers from various backgrounds may have different priorities and methodologies, requiring effective coordination and teamwork to overcome these barriers.
19. Furthermore, ethical considerations are paramount in robot research.
20. As robots become more capable and integrated into society, questions about their impact on employment, privacy, and even human relationships arise.
21. Researchers must navigate these complex ethical dilemmas and submit to the responsibility of developing ethical guidelines for robot design and deployment.
22. In conclusion, robot research is a field filled with numerous challenges, both technical and ethical.
23. Researchers must describe the intricate problems, submit to the relentless pursuit of innovation, and reserve their determination and creativity to overcome these hurdles.
24. While the convenience of robotics has the potential to reshape industries and improve lives, it comes with the demand for meticulous attention to detail and a commitment to staying at the forefront of technological advancements.
25. Despite these challenges, robot research remains a thrilling and rewarding endeavor, offering the promise of shaping a future where robots enhance human existence.

(476 words)

全文を訳して下さい。辞書を引いても不明な場合にはページをめくると解説が書いてあります。
和訳例は 19, 20 ページにあります。

The Challenges of Robot Research

1. Robot research is a captivating and transformative field, but it is not without its complexities and difficulties.
2. In this essay, I will describe the myriad challenges that researchers must submit to, emphasizing the need to reserve determination, creativity, and innovation to approximate solutions in this demanding domain.
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9. Ensuring that robots are both effective and safe requires meticulous attention to detail, adding to the intricacy of the research process.
10. Another significant challenge is the ever-evolving landscape of technology.
11. Researchers must constantly strive to keep up with the latest advancements, as the field of robotics is dynamic and fast-paced.
12. This necessitates ongoing learning and adaptation to new tools, methods, and paradigms, making it imperative to reserve a commitment to continuous education and skill development.
13. Approximating human-like capabilities in robots is a fundamental objective in robot research, but it is a challenge that requires relentless innovation.

1. Robot research is a captivating and transformative field, but it is not without its complexities and difficulties.

robot research = ロボット研究

transformative = 変革的

not without = ~がないわけではない

difficulties = 困難

captivating = 魅惑的

field = 分野

complexities = 複雑さ

2. In this essay, I will describe the myriad challenges that researchers must submit to, emphasizing the need to reserve determination, creativity, and innovation to approximate solutions in this demanding domain.

myriad challenges = 無数の課題

emphasizing = 強調している

to reserve = 備えること

creativity = 創造性

approximate = 導き出す

demanding domain = 厳しい領域

must submit to = 従わなければならない

the need = 必要性

determination = 決断力

innovation = 革新性

solutions = 解決策

3. One of the primary challenges in robot research is the intricate nature of the problems to be solved.

the primary challenges = 主な課題

of the problems to be solved = 解決すべき問題の

the intricate nature = 複雑な性質

4. Researchers must often navigate through a maze of complex algorithms, intricate mechanics, and multifaceted sensor systems.

must often navigate = しばしば通り抜けなければならない

through a maze = 迷路を

intricate mechanics = 複雑な仕組み

complex algorithms = 複雑なアルゴリズム

multifaceted = 多面的な

5. These challenges require a deep understanding of various disciplines, from computer science to engineering, making robot research a demanding and intellectually rigorous endeavor.

challenges = 課題

a deep understanding = 深い理解

making = ~にしている

intellectually rigorous = 知的に厳しい

require = 必要である

various disciplines = さまざまな学問分野

demanding = 要求が高く

endeavor = 取り組み

6. The convenience of robot research, while evident in its potential to revolutionize industries, also poses challenges.

convenience = 利便性

potential = 可能性

also poses challenges = 同時に課題もあります

evident = 明らか

to revolutionize industries = 産業界に革命をもたらす

14. Whether it's achieving human-level dexterity, understanding natural language, or replicating social interactions, researchers must continuously push the boundaries of what is technically feasible.
15. The pursuit of approximation is a never-ending journey filled with obstacles, setbacks, and the need for perseverance.
16. The interdisciplinary nature of robot research can also be a double-edged sword.
17. While it offers the opportunity for collaboration and diverse perspectives, it can also pose communication and integration challenges.
18. Researchers from various backgrounds may have different priorities and methodologies, requiring effective coordination and teamwork to overcome these barriers.
19. Furthermore, ethical considerations are paramount in robot research.
20. As robots become more capable and integrated into society, questions about their impact on employment, privacy, and even human relationships arise.

7. Developing robots that can seamlessly integrate into human environments and perform tasks autonomously is no small feat.

seamlessly integrate = 途切れなく溶け込み

perform tasks = 用事をこなす

no small feat = 並大抵のことではない

into human environments = 人間環境に

autonomously = 自律的に

8. It demands extensive testing, refinement, and safety considerations.

demands = 必要とする

refinement = 改良

extensive testing = 広範なテスト

safety considerations = 安全性への配慮

9. Ensuring that robots are both effective and safe requires meticulous attention to detail, adding to the intricacy of the research process.

ensuring that = ~を保証するには

requires = 必要がある

to detail = 細部にまで

effective = 効果的

meticulous attention = 細心の注意を払う

adding to the intricacy = 複雑さを増している

10. Another significant challenge is the ever-evolving landscape of technology.

significant challenge = 重要な課題

landscape of technology = 技術の状況

the ever-evolving = 進化し続ける

11. Researchers must constantly strive to keep up with the latest advancements, as the field of robotics is dynamic and fast-paced.

strive = 努力をする

the latest advancements = 最新の進歩

fast-paced = ペースが速い

to keep up with = ~についていくために

as = ~なので

12. This necessitates ongoing learning and adaptation to new tools, methods, and paradigms, making it imperative to reserve a commitment to continuous education and skill development.

necessitates = 必要とする

adaptation to = ~への適応

making it imperative = 不可欠です (にします)

ongoing = 継続的な

paradigms = 枠組み

reserve a commitment to = ~への確約

13. Approximating human-like capabilities in robots is a fundamental objective in robot research, but it is a challenge that requires relentless innovation.

approximating = 近づけること

in robots = ロボットに

a challenge = 課題

human-like capabilities = 人間のような能力

a fundamental objective = 基本的な目標

relentless innovation = 絶え間ない技術革新

21. Researchers must navigate these complex ethical dilemmas and submit to the responsibility of developing ethical guidelines for robot design and deployment.
22. In conclusion, robot research is a field filled with numerous challenges, both technical and ethical.
23. Researchers must describe the intricate problems, submit to the relentless pursuit of innovation, and reserve their determination and creativity to overcome these hurdles.
24. While the convenience of robotics has the potential to reshape industries and improve lives, it comes with the demand for meticulous attention to detail and a commitment to staying at the forefront of technological advancements.
25. Despite these challenges, robot research remains a thrilling and rewarding endeavor, offering the promise of shaping a future where robots enhance human existence.

(476 words)

14. Whether it's achieving human-level dexterity, understanding natural language, or replicating social interactions, researchers must continuously push the boundaries of what is technically feasible.

dexterity = 器用さ

replicating = 再現する

social interactions = 社会的相互作用

the boundaries of = の限界

what is technically feasible = 技術的に実現可能なこと

15. The pursuit of approximation is a never-ending journey filled with obstacles, setbacks, and the need for perseverance.

pursuit of approximation = 近似性の追求

filled with = ～に満ちた

obstacles = 障害

setbacks = 挫折

the need for perseverance = 忍耐の必要性

16. The interdisciplinary nature of robot research can also be a double-edged sword.

interdisciplinary nature = 学際性

can also be = ～にもなり得る

a double-edged sword = 諸刃の剣

17. While it offers the opportunity for collaboration and diverse perspectives, it can also pose communication and integration challenges.

collaboration = 共同作業

diverse perspectives = 多様な視点

can also pose = ～をもたらす可能性もある

communication = 意思の疎通

integration challenges = 統合の難しさ

18. Researchers from various backgrounds may have different priorities and methodologies, requiring effective coordination and teamwork to overcome these barriers.

various backgrounds = 様々な背景

may have = 持っている可能性がある

different priorities = 異なる優先順位

methodologies = 方法論

effective coordination = 効果的な調整

to overcome = ～を克服するための

19. Furthermore, ethical considerations are paramount in robot research.

furthermore = さらに

ethical considerations = 倫理的配慮

paramount = 最重要

20. As robots become more capable and integrated into society, questions about their impact on employment, privacy, and even human relationships arise.

as = ～につれて

integrated into = ～に溶け込む

questions about = ～についての疑問

impact = 影響

arise = 生じる

21. Researchers must navigate these complex ethical dilemmas and submit to the responsibility of developing ethical guidelines for robot design and deployment.

navigate = ～を乗り越え

complex ethical dilemmas = 複雑な倫理的ジレンマ

submit to the responsibility of = ～の責任を負う

developing ethical guidelines = 倫理的ガイドラインを作成する

22. In conclusion, robot research is a field filled with numerous challenges, both technical and ethical.

a field filled with = ～に満ちた分野

numerous challenges = 数多くの課題

both technical and ethical = 技術的にも倫理的にも

23. Researchers must describe the intricate problems, submit to the relentless pursuit of innovation, and reserve their determination and creativity to overcome these hurdles.

describe = 説明する

the intricate problems = 複雑な問題

submit to = ～に従う

relentless = 絶え間ない

pursuit of innovation = 革新の追求

reserve = 確保する

determination and creativity = 決意と創造性

to overcome = 克服するための

24. While the convenience of robotics has the potential to reshape industries and improve lives, it comes with the demand for meticulous attention to detail and a commitment to staying at the forefront of technological advancements.

has the potential to = ～の可能性を秘めている

reshape industries = 産業を再構築する

improve lives = 生活を向上させる

comes with the demand = 要求される (共に来る)

meticulous attention = 細心の注意

to detail = 細部への

a commitment = 約束

staying at = ～に立ち続ける

the forefront = 最前線

technological advancements = 技術進歩

25. Despite these challenges, robot research remains a thrilling and rewarding endeavor, offering the promise of shaping a future where robots enhance human existence.

challenges = 課題

remains = ～であり続ける

rewarding endeavor = やりがいのある取り組み

offering the promise = ～の約束を提供している

shaping a future = 未来を形作る

enhance = 向上させる

human existence = 人間の存在

(476 words)

全文和訳例

1. Robot research is a captivating and transformative field, but it is not without its complexities and difficulties.

ロボット研究は魅惑的で変革的な分野ですが、複雑さや困難がないわけではありません。

2. In this essay, I will describe the myriad challenges that researchers must submit to, emphasizing the need to reserve determination, creativity, and innovation to approximate solutions in this demanding domain.

このエッセイでは、研究者が従わなければならない無数の課題について述べ、この厳しい領域で解決策を導き出すためには、決断力、創造性、革新性を備える必要性を強調しています。

3. One of the primary challenges in robot research is the intricate nature of the problems to be solved.

ロボット研究における主な課題の1つは、解決すべき問題の複雑な性質です。

4. Researchers must often navigate through a maze of complex algorithms, intricate mechanics, and multifaceted sensor systems.

研究者は複雑なアルゴリズム、複雑な仕組み、多面的なセンサーシステムといった迷路を、しばしば通り抜けなければなりません。

5. These challenges require a deep understanding of various disciplines, from computer science to engineering, making robot research a demanding and intellectually rigorous endeavor.

このような課題には、コンピュータサイエンスから工学に至るまで、さまざまな学問分野の深い理解が必要であり、ロボット研究を要求が高く、知的に厳しい取り組みにしています。

6. The convenience of robot research, while evident in its potential to revolutionize industries, also poses challenges.

ロボット研究の利便性は、産業界に革命をもたらす可能性があることから明らかですが、同時に課題もあります。

7. Developing robots that can seamlessly integrate into human environments and perform tasks autonomously is no small feat.

人間環境に途切れなく溶け込み、自律的に用事をこなすロボットを開発することは、並大抵のことではありません。

8. It demands extensive testing, refinement, and safety considerations.

それは広範なテスト、改良、安全性への配慮を必要とします。

9. Ensuring that robots are both effective and safe requires meticulous attention to detail, adding to the intricacy of the research process.

ロボットが効果的で安全であることを保証するには、細部にまで細心の注意を払う必要があり、研究プロセスの複雑になります。

10. Another significant challenge is the ever-evolving landscape of technology.

もうひとつの重要な課題は、進化し続ける技術の状況があります。

11. Researchers must constantly strive to keep up with the latest advancements, as the field of robotics is dynamic and fast-paced.

ロボット工学の分野はダイナミックでペースが速いため、研究者は常に最新の進歩についていく努力をしなければいけません。

12. This necessitates ongoing learning and adaptation to new tools, methods, and paradigms, making it imperative to reserve a commitment to continuous education and skill development.

これは、継続的な学習と新しい道具、手法、枠組みへの適応を必要とし、継続的な教育と技術開発への確約が不可欠です。

13. Approximating human-like capabilities in robots is a fundamental objective in robot research, but it is a challenge that requires relentless innovation.

ロボットに人間のような能力を近づけることは、ロボット研究の基本的な目標ですが、それは絶え間ない技術革新が必要な課題です。

14. Whether it's achieving human-level dexterity, understanding natural language, or replicating social interactions, researchers must continuously push the boundaries of what is technically feasible.

人間レベルの器用さを達成するにしても、自然言語を理解するにしても、社会的相互作用を再現するにしても、研究者は技術的に実現可能なことの限界を常に押し広げなければいけません。

15. The pursuit of approximation is a never-ending journey filled with obstacles, setbacks, and the need for perseverance.

近似性の追求は、障害や挫折、忍耐の必要性に満ちた終わりのない旅です。

16. The interdisciplinary nature of robot research can also be a double-edged sword.

ロボット研究の学際性は、諸刃の剣にもなり得ます。

17. While it offers the opportunity for collaboration and diverse perspectives, it can also pose communication and integration challenges.

それは共同作業や多様な視点の機会を提供する一方で、意思の疎通や統合の難しさをもたらす可能性もあります。

18. Researchers from various backgrounds may have different priorities and methodologies, requiring effective coordination and teamwork to overcome these barriers.

様々な背景を持つ研究者が異なる優先順位や方法論を持っている可能性があり、これらの障壁を克服するためには効果的な調整とチームワークが必要となります。

19. Furthermore, ethical considerations are paramount in robot research.

さらに、ロボット研究においては倫理的配慮が最も重要です。

20. As robots become more capable and integrated into society, questions about their impact on employment, privacy, and even human relationships arise.

ロボットの能力が向上し、社会に溶け込むにつれて、ロボットが雇用やプライバシー、さらには人間関係に与える影響についての疑問が生じます。

21. Researchers must navigate these complex ethical dilemmas and submit to the responsibility of developing ethical guidelines for robot design and deployment.

研究者はこうした複雑な倫理的ジレンマを乗り越え、ロボットの設計と展開に関する倫理的ガイドラインを作成する責任を負わなければいけません。

22. In conclusion, robot research is a field filled with numerous challenges, both technical and ethical.

結論として、ロボット研究は、技術的にも倫理的にも数多くの課題に満ちた分野です。

23. Researchers must describe the intricate problems, submit to the relentless pursuit of innovation, and reserve their determination and creativity to overcome these hurdles.

研究者は、複雑な問題を説明し、絶え間ない革新の追求に従い、これらのハードルを克服するための決意と創造性を確保しなければいけません。

24. While the convenience of robotics has the potential to reshape industries and improve lives, it comes with the demand for meticulous attention to detail and a commitment to staying at the forefront of technological advancements.

ロボット工学の利便性は、産業を再構築し、生活を向上させる可能性を秘めている一方で、細部への細心の注意と、技術進歩の最前線に立ち続けるという約束が要求されます。

25. Despite these challenges, robot research remains a thrilling and rewarding endeavor, offering the promise of shaping a future where robots enhance human existence.

このような課題にもかかわらず、ロボット研究はスリリングでやりがいのある取り組みであり続け、ロボットが人間の存在を向上させる未来を形作る約束を提供しています。

(476 words)

21, 22 ページの英文を読み、23, 24 ページの問題を解いて下さい。解答は 25, 26 ページにあります。

The Challenges of Robot Research

Robot research is a captivating and transformative field, but it is not without its complexities and difficulties. In this essay, I will describe the myriad challenges that researchers must submit to, emphasizing the need to reserve determination, creativity, and innovation to approximate solutions in this demanding domain.

One of the primary challenges in robot research is the intricate nature of the problems to be solved. Researchers must often navigate through a maze of complex algorithms, intricate mechanics, and multifaceted sensor systems. These challenges require a deep understanding of various disciplines, from computer science to engineering, making robot research a demanding and intellectually rigorous endeavor.

The convenience of robot research, while evident in its potential to revolutionize industries, also poses challenges. Developing robots that can seamlessly integrate into human environments and perform tasks autonomously is no small feat. It demands extensive testing, refinement, and safety considerations. Ensuring that robots are both effective and safe requires meticulous attention to detail, adding to the intricacy of the research process.

Another significant challenge is the ever-evolving landscape of technology. Researchers must constantly strive to keep up with the latest advancements, as the field of robotics is dynamic and fast-paced. This necessitates ongoing learning and adaptation to new tools, methods, and paradigms, making it imperative to reserve a commitment to continuous education and skill development.

Approximating human-like capabilities in robots is a fundamental objective in robot research, but it

is a challenge that requires relentless innovation. Whether it's achieving human-level dexterity, understanding natural language, or replicating social interactions, researchers must continuously push the boundaries of what is technically feasible. The pursuit of approximation is a never-ending journey filled with obstacles, setbacks, and the need for perseverance.

The interdisciplinary nature of robot research can also be a double-edged sword. While it offers the opportunity for collaboration and diverse perspectives, it can also pose communication and integration challenges. Researchers from various backgrounds may have different priorities and methodologies, requiring effective coordination and teamwork to overcome these barriers.

Furthermore, ethical considerations are paramount in robot research. As robots become more capable and integrated into society, questions about their impact on employment, privacy, and even human relationships arise. Researchers must navigate these complex ethical dilemmas and submit to the responsibility of developing ethical guidelines for robot design and deployment.

In conclusion, robot research is a field filled with numerous challenges, both technical and ethical. Researchers must describe the intricate problems, submit to the relentless pursuit of innovation, and reserve their determination and creativity to overcome these hurdles. While the convenience of robotics has the potential to reshape industries and improve lives, it comes with the demand for meticulous attention to detail and a commitment to staying at the forefront of technological advancements. Despite these challenges, robot research remains a thrilling and rewarding endeavor, offering the promise of shaping a future where robots enhance human existence.

(476 words)

本文の内容に対して、(01) ～ (10) の問題の答えをそれぞれ a) ～ d) より選んでください。

(01) What is identified as one of the primary challenges in robot research?

- a) Lack of funding
- b) Complex algorithms and mechanics
- c) Ethical dilemmas
- d) Limited collaboration

(02) What does the essay emphasize as a fundamental objective in robot research?

- a) Achieving financial success
- b) Resolving ethical dilemmas
- c) Developing ethical guidelines
- d) Approximating human-like capabilities

(03) Why is the interdisciplinary nature of robot research considered a double-edged sword?

- a) It leads to faster progress
- b) It creates communication and integration challenges
- c) It ensures ethical considerations are met
- d) It limits innovation possibilities

(04) What does the term "intricate" primarily mean in the context of robot research challenges?

- a) Simple
- b) Complex
- c) Innovative
- d) Ethical

(05) In the essay, what does "interdisciplinary" refer to in the context of robot research?

- a) Limited to a single discipline
- b) Involving collaboration across different disciplines
- c) Focused solely on technology
- d) Exclusively ethical considerations

(06) What is the main focus of the essay regarding the challenges of robot research?

- a) The convenience of robotics
- b) The intricacies of interdisciplinary collaboration
- c) The need for ethical guidelines
- d) The myriad challenges researchers face in the field

(07) According to the essay, what demands extensive testing, refinement, and safety considerations in robot research?

- a) Intricate mechanics
- b) Human environments
- c) Advancements in technology
- d) Collaboration challenges

(08) What is mentioned as a never-ending journey in robot research?

- a) Developing ethical guidelines
- b) Achieving human-like capabilities
- c) Ensuring safety considerations
- d) Navigating ethical dilemmas

(09) What can be inferred about the role of determination and creativity in robot research?

- a) They are unnecessary for success
- b) They are reserved for ethical dilemmas only
- c) They are crucial for overcoming challenges
- d) They hinder interdisciplinary collaboration

(10) Based on the essay, why must researchers constantly adapt to new tools and paradigms?

- a) To avoid ethical dilemmas
- b) To stay at the forefront of technological advancements
- c) To limit collaboration challenges
- d) To simplify the research process

(01) ~ (10) 解答

(01) ロボット研究における主な課題のひとつは何か？

- a) 資金不足
- b) 複雑なアルゴリズムと力学
- c) 倫理的ジレンマ
- d) 限られた協力関係

(01): b) Complex algorithms and mechanics

(02) このエッセイは、ロボット研究の基本的な目的として何を強調しているか？

- a) 経済的成功の達成
- b) 倫理的ジレンマの解決
- c) 倫理的指針の策定
- d) 人間に近い能力の推定

(02): d) Approximating human-like capabilities

(03) ロボット研究の学際性が諸刃の剣と考えられているのはなぜですか？

- a) より速い進歩につながる
- b) コミュニケーションや統合に課題が生じる
- c) 倫理的配慮が満たされる
- d) イノベーションの可能性を制限する

(03): b) It creates communication and integration challenges

(04) ロボット研究の課題において、"intricate"という言葉は主に何を意味しますか？

- a) 単純
- b) 複雑
- c) 革新的
- d) 倫理的

(04): b) Complex

(05) エッセイの中で、ロボット研究の文脈における「学際的」とは何を指すか？

- a) 単一の分野に限定される
- b) 異なる分野間での共同研究を含む
- c) 技術のみに焦点を当てたもの
- d) 倫理的配慮のみ

(05): b) Involving collaboration across different disciplines

(06) ロボット研究の課題に関するエッセイの主眼は？

- a) ロボット工学の利便性
- b) 学際的コラボレーションの複雑さ
- c) 倫理的ガイドラインの必要性
- d) 研究者が現場で直面する無数の課題

(06): d) The myriad challenges researchers face in the field

(07) エッセイによると、ロボット研究において、広範なテスト、改良、安全性への配慮が求められるのは？

- a) 複雑なメカニクス
- b) 人間環境
- c) テクノロジーの進歩
- d) コラボレーションの課題

(07): b) Human environments

(08) ロボット研究の終わりのない旅として何が挙げられるか？

- a) 倫理指針の策定
- b) 人間のような能力の実現
- c) 安全性の確保
- d) 倫理的ジレンマの克服

(08): b) Achieving human-like capabilities

(09) ロボット研究における決断力と創造性の役割について推測できることは？

- a) 成功には不要である
- b) 倫理的なジレンマにのみ使われる。
- c) 困難を克服するために不可欠である
- d) 学際的協力の妨げになる

(09): c) They are crucial for overcoming challenges

(10) エッセイによると、なぜ研究者は常に新しいツールやパラダイムに適応していかなければならないのでしょうか？

- a) 倫理的ジレンマを避けるため
- b) 技術の進歩の最前線に立ち続けるため
- c) コラボレーションの課題を抑える
- d) 研究プロセスを簡素化するため

(10): b) To stay at the forefront of technological advancements

下にある本文の要約文の内、①～⑨に適する単語を本文より選び、解答欄に書き写して下さい。ページをめくると解答があります。

Robot research is a complex and (①) field, presenting a multitude of challenges that demand determination, creativity, and innovation. The primary challenge lies in the intricate nature of the problems at hand, involving complex algorithms, intricate mechanics, and (②) sensor systems, necessitating a deep understanding of multiple disciplines. Integrating robots into human environments is also challenging, requiring extensive testing, refinement, and safety considerations to ensure effectiveness and safety. Technology's rapid evolution presents an ongoing challenge, compelling researchers to adapt to new tools and methods. Achieving human-like capabilities in robots, whether (③), language understanding, or social interaction, demands relentless innovation.

The (④) nature of robot research offers (⑤) opportunities but can pose communication and (⑥) challenges among researchers from diverse backgrounds. Ethical considerations are paramount, as robots raise questions about their impact on employment, privacy, and human relationships. Researchers must navigate these (⑦) and develop guidelines for responsible robot design and deployment.

In conclusion, robot research is a field filled with technical and ethical challenges, demanding

innovation, determination, and meticulous attention to detail. While robotics offers the potential to (⑧) industries and improve lives, it requires staying at the (⑨) of technological advancements. Despite these challenges, it remains a thrilling and rewarding endeavor with the promise of enhancing human existence.

①		②		③	
④		⑤		⑥	
⑦		⑧		⑨	

メモ

要約文穴埋め問題解答

①	transformative	②	multifaceted	③	dexterity
④	interdisciplinary	⑤	collaboration	⑥	integration
⑦	ethical dilemmas	⑧	reshape	⑧	forefront

メモ

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