



東京大学大学院工学系研究科システム創成学専攻

Department of Systems Innovation, Graduate School of Engineering, The University of Tokyo

令和 5 (2023) 年度修士課程・博士後期課程入試・システム創成学関連科目 (専門科目) 課題  
Technical Questions on Problems Related to Systems Innovation, 2023 Entrance Examinations for  
Master's/Doctoral Program

## システム創成学関連科目 (専門科目) 課題 Technical Questions on Problems Related to Systems Innovation

- この設問は課題論文に対する理解度、背景となる分野に関する知識、課題の発見・解決能力、研究計画能力、論理的な思考能力を問うものである。学術的な解答を心がけること。

The questions below are to examine your understanding of your assigned paper and knowledge on the academic discipline as well as abilities to find and solve problems, plan research strategies, and think logically. Answers should be written academically.

- 解答に用いる事実・知見等は論文内で提示されているものに限らない (文献名や URL 等の引用元を適切に示すこと)。  
Information and/or facts outside your assigned paper can be referred in your answers (properly cite the reference sources, such as bibliographic information and URL, etc.).
- 図表、数式等を適宜用いてもよい。引用する場合は、引用元を明記すること。  
Appropriate figures, tables and equations can be used in your answers. If you use materials from other people's properties, cite the original sources properly.
- 1 問につき A4 または US letter 2 頁以内で記述すること。  
Answers should be within two pages (A4 or US letter) for each question.
- 解答は日本語または英語で記述すること。  
Answers should be written in either English or Japanese.

教員名：青山 和浩

(「志望指導教員の申告票」に記入した第一志望指導教員)

**Name of supervisor: Kazuhiro AOYAMA**

(Your most preferred supervisor as in "Declaration of Preferred Supervisors")

以下の論文を読み、下記の3つの問いに答えよ。

**Read the publication indicated below and answer the following three questions.**

*Christoffer Askhøj, Niels Henrik Mortensen*

*Deciding on the total number of product architectures*

*Concurrent Engineering, vol. 28, 1: pp. 20-31. , First Published November 26, 2019.*

<https://doi.org/10.1177/1063293X19888968>

\*上記の論文はシステム創成学専攻や所属教員の特定の意見、立場や考えなどを代表するものではない。

\*The above publication does not represent any specific opinion, standpoint or idea of the Department of Systems Innovation or the faculty members.

**【問題 1 / Question 1】**

課題論文で用いられた主たる手法について説明せよ。また、その手法の利点、新規性、限界・弱点などについて述べよ。

Explain the main method used in your assigned paper as well as the advantage, novelty, limitation and shortcomings etc. of the method.

**【問題 2 / Question 2】**

課題論文で述べられている主要な結果について、論文の著者とは異なる解釈が可能か？その根拠と共に述べよ。

Can the main results of your assigned paper be interpreted differently from the interpretation stated by the authors?

Answer along with the rationale.

**【問題 3 / Question 3】**

課題論文の社会的な影響について、論文外の知見も参照し論ぜよ。

Discuss the social impact of your assigned paper. Information outside the paper should also be considered.