

School of Engineering, The University of Tokyo

Department of Systems InnovationInformation Sessions for Entrance Exam

April 26, 2024 (Fri) 17:30-20:00

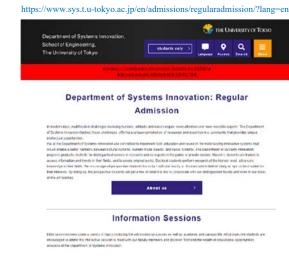
Today's Topic

- ■Briefing session (17:30-18:30)
 - Introduction of the department (Department Chair, 10min)
 - Curriculum (Curriculum WG, 5min)
 - Student's Voices (Graduate students, 15min)
 - Entrance examination (Vice chair of the department, 15min)
 - Q&A (10min)
 - Guide for laboratory introduction (5min)
- Laboratory introduction (18:30-20:00)
 - Room 422.423.424, 4F, Eng., Bldg., No.3

Entrance exam in this year



- Problems related to systems innovation and oral examination will be conducted by online in this year
 - All applicants take examinations by online.
 - The contents of "Problems related to systems innovation" will be similar to those of the last year.
 - The last year's problems can be downloaded from department website.
 - Detail of entrance examination will be announced on department website. Please regularly check the website.
- Please read both "Guidelines for Applicants of Graduate School of Engineering" and "Guide to Entrance Examinations of the Department of Systems Innovation" for details.
 - These are downloadable from the websites of Graduate School of Engineering and Department of Systems Innovation.
 - Both materials contain **important information**.









Examination Subjects and Schedules



Date	Examination Subject(s) & Times	Notes	
August 26th (Mon) ~ August 30th (Fri)	9:00-19:00 [®] - Problems Related to Systems Innovation - Oral Examination	For eligible applicants who pass the document screening	
September 5th (Thu)		s of successful applicants will be posted on the chool of Engineering website about 4pm	

- 1. It may change based on the number of examinees.
- 2. More details on the exam (e.g., technical questions of the last year and this presentation material) will be on **the department website** in near future.

Document Screening



- Document screening is conducted by application documents and the applicant's academic performances during undergraduate, etc.
 - The subsequent examinations will be held <u>only for applicants who</u> <u>successfully pass the document screening</u>. Applicants who do not pass the document screening will not be invited to take the exam.
 - In document screening of master's exam, Motivation Letter, Research Proposal and Answers to Technical Questions are relatively important and academic performances during undergraduate etc. are referred as reference.
- Applicants will be notified of the results of the document screening by August 22nd (Thu) via the department website, etc.

English Examination

Section	Test Date 1	Test Date 2	Test Date 3	MyBest Score	
Reading	24	23	23	24	
Listening	19	20	22	22	
Speaking	20	20	21	21	
Writing	21	23	22	23	
Total Score	84	86	88	90	DEPARTMENT OF SYSTEMS INNOVATION

- Official TOEFL iBT (including Home Edition) scores <u>submitted by the applicant</u> will be used to evaluate the applicant's English skills.
 - As for submission of TOEFL score, refer to the "Notice regarding Foreign-language (English) Examinations in 2024 (Master's Program)" provided by the University of Tokyo's Graduate School of Engineering.
 - TOEFL scores must arrive no later than August 7th (Wed).
 - The Department of Systems Innovation only accepts official scores from a single test date (Test Date Scores), not "MyBest" Scores.
 - TOEFL ITP is not conducted at UTokyo.
 - For doctoral exam, applicants may be exempted English exam (Refer to Guide to Entrance Examinations)
- Applicants who have not yet obtained an official score must <u>immediately</u> apply the TOEFL iBT (including Home Edition).

Problems Related to Systems Innovation (1/6)



- "Problems Related to Systems Innovation" is conducted by Pre-assigned technical questions and online oral examination
 - Applicants submit answers to pre-assigned technical questions before the oral examination
 - An oral examination will be conducted based on answer to pre-assigned technical questions
- ■Written exam is not conducted
 - Score of "Problems Related to Systems Innovation" is evaluated by response to pre-assigned technical questions and oral examination.
 - Answer to pre-assigned technical questions is also used for document screening.
 - In oral exam, specialized knowledge and ability to carry out research, etc. are examined.

Problems Related to Systems Innovation (2/6)



Technical Questions

- Research paper related to research topic of preferred supervisor is presented (paper should be available for everyone)
- Questions related to assigned research paper are presented (approx. 3 questions) to examine;
 - Comprehension for paper, relevant basic knowledge, problem-finding ability
 - Problem-solving, research planning skills
- ■Technical questions of the last year are presented in department website



東京大学大学院工学系研究料システム創成学専攻

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

この説明は課題論文に対する理解性、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

- このは四は森地画又に対する場所は、背景となる分野に関する知識、森地の発見・解決能力、研究計画能力、副理的な思考能力 を関うものである。学術的な解答を心がけること。
- as abilities to find and solve problems, plan research strategies, and think logically. Answers should be written academically.

 新容に用いる事実・知見等は論文内で提示されているものに扱るない(文献名や URL 等の引用元を適切に示すこと)。
- Meyer-mix-open、Multi-grad Articles 6 to 1.00 もの1.00 をない くんがたか (properly cite the reference sources, such a bibliographic information and URL, etc.).
- 図水、飲水等を確定用いてもよい。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 同につき A4 または US letter 2 頁は内で記述すること。
 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。

解告は日本請求だは実績で記憶すること。 Answers should be written in either English or Iapanese.

Problems Related to Systems Innovation (3/6)

Technical Questions

- Research paper related to research topic of preferred supervisor is presented (paper should be available for everyone)
- Questions related to assigned research paper are presented (approx. 3 questions) to examine;
 - Comprehension for paper, relevant basic knowledge, problem-finding ability
 - Problem-solving, research planning skills
- ■Technical questions of the last year are presented in department website

教員名: 中尾 彰宏

(「志望指導教員の中告票」に記入した第一志望指導教員)

Name of supervisor: Akihiro NAKAO

(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

Gigis, Petros and Calder, Matt and Manassakis, Lefteris and Nomikos, George and Kotronis, Vasileios and Dimitropoulos, Xenofontas and Katz-Bassett, Ethan and Smaragdakis, Georgios, "Seven years in the life of Hypergiants' off-nets", SIGCOMM '21: Proceedings of the 2021 ACM SIGCOMM 2021 ConferenceAugust 2021 Pages 516-533

https://dl.acm.org/doi/10.1145/3452296.3472928

*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。

【開版 1 /Ouestion 1

課題論文の主たる結論について、根拠となる結果と論理展開も含めて述べよ。

Explain the main conclusion of your assigned paper including the results and logical flow that led to the conclusion.

【問題 2/Question 2】

課題論文の主たる弱点・限界は何か?また、それを克服するためのアイデアを具体的に述べよ。

Explain the main weakness and/or limitation of your assigned paper. Also, provide a specific idea (or ideas) on how to overcome them/it.

【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

Problems Related to Systems Innovation (4/6)

- Answers to Technical Questions
 - Answer the Technical Questions assigned by your first preferred supervisor
 - Details will be announced in department homepage

Oral exam

- Around 30 min
 - Applicants' deep understanding on the contents of assigned paper, relevant research topic, etc.
 - Extended Q&A based on applicant's answers, etc.
- ■To ensure fairness, the examination will be conducted by multiple faculty members.



■ 密元大学大学科学研究学科学大学大学研究 Department of Systems Innovation, Gandants School of Engineering, The University of Tokyo 中称5 (2023) 年度報告・博士後期度教入体・システム的成学問題科目 (専門科目) 新常用級 Annower Sheet for Technical Questions in Publisher Selected to Systems Innovation, 2023 Entrance

システム部成学問題料目 (参門料目) 脚端料管用紙 Answer Sheet for Technical Questions on Problems Related to Systems Innovation. For submission method please sefes 1/220 duáls to Erdence Zusmissions provided by the Department of Systems Innovation.

第一工資本資金的 (「生産性事業的の事業」 (NRO におんしたもの) により出席されたシステム的で予選的 (GETHE) 連続に「ジストの前にてくがある。 Amount to "Laborate Quantum or societies by year first perferred appendice (as in "Declaration of Professed Separations").

- ① 専用を表紙としてすべての展界を1つのPDFファイルにまためて提出してください。 To submit, combine all of your answers into a single PDF Ne with this sheet as the cover pag
- ② 奇術館(台計 3例)につきてページの内で報告してください。 後後はページ配に含まれません。 Your answer for each question should be within two pages (three questions in total). The cover page is not included it the page court.
- 第一志遠院等教員以外の連載に等答した場合、不合物となることがあります。 引 you assisted the Chemical Questions presented by any faculty member other than your first preferred supervisor, you may be disqualified from further exam.
- 日本語または英語で報告してください。
 Answers should be written in either English or Japanes
- 節 解答中に受験者の氏名や所属が分かるような内容は含めないでください。含まれていた場合不正行為となることがあります。 Do not include any information which may reveal your name and/or affiliation in your answers. If your answer contains such personal information, if may be regarded as fraud.

付番号 Receipt number
联备号 Examination number
一志望指導教員の氏名 First preferred supervisor

Problems Related to Systems Innovation (5/6)



- Indication and submission of Pre-assigned technical questions
 - Pre-assigned technical questions will be presented in late July early August.
 - Submission deadline for Answers to Technical Questions is planned in mid August (Details will be announced on the department website)

■Oral exam

- Applicants who pass the document screening are eligible to take oral exam.
- Details, including instructions, timetables, and other notifications concerning the online oral exam, will be published on the department website by August 23rd (Fri) (Please regularly check our website)
- For the online exam, the applicant must use a PC with a camera, microphone, and stable Internet connection.
- As for doctoral program, applicants may be exempted from Problems Related to Systems Innovation (See Guide to Entrance Examinations)

Problems Related to Systems Innovation (6/6)



Notes

- Problems Related to Systems Innovation will be shown in the department website.
- Problems are related to research topic of preferred supervisor.
- We recommend to contact with preferred supervisor before submitting applications.
 - Prohibited to contact with preferred supervisor after submitting applications.

Oral Examination



- Oral exam is also conducted by online.
 - Details, including instructions, timetables, and other notifications concerning the online oral exam, will be published on the department website by August 23rd (Fri)
 - For the online exam, the applicant must use a PC with a camera, microphone, and stable Internet connection.
 - Applicants must make a presentation online by screen-sharing their electronic presentation materials (such as PowerPoint, Keynote, PDF, etc.) in doctoral oral examination.
 - Applicants who are exempted to take problems related to Systems Innovation are also required to take oral exam.

Required Documents (Master's Program)



- Documents submitted to Graduate School of Engineering (applications, TOEFL scores, etc.)
 - · Application period: June 3 (Mon) to 10 (Mon) 3pm
 - Refer to the section 6 of "Guidelines for Applicants to the 2025 Master's Program" provided by the University
 of Tokyo's Graduate School of Engineering.
 - TOEFL official score: Refer to the "Notice regarding Foreign Language (English) Examinations in 2025 The University of Tokyo Graduate School of Engineering Entrance Examinations (How to submit TOEFL score (Master's program, Doctoral program [Application Schedule A · B])". (must arrive **August 7 (Wed)**)
- Documents directly submitted to Department of Systems Innovation
 - ◆ Declaration of Preferred Supervisors (Submission Deadline: June 10 (Mon))
 - Motivation Letter with Research Proposal (Submission Deadline: late July early August, details will be announced on department website)
 - ◆ Answers to Technical Questions (Submission Deadline: mid August, details will be announced on department website)
 - · Notification of technical questions: late July early August
 - · Document format can be downloaded from department website
 - · Submission method etc., will be published on the department website

Declaration of Preferred Supervisors



- Applicants can select a maximum of 10 preferred supervisors in order of preference.
- If you wish to enroll even if you are assigned to a supervisor not included in your preferred supervisor list, check the box below.
 - "I wish to enroll even if I am not assigned to a supervisor not included in my preferred supervisor list
- If you are not assigned to your preferred supervisors and not checked above, your admission will be declined.

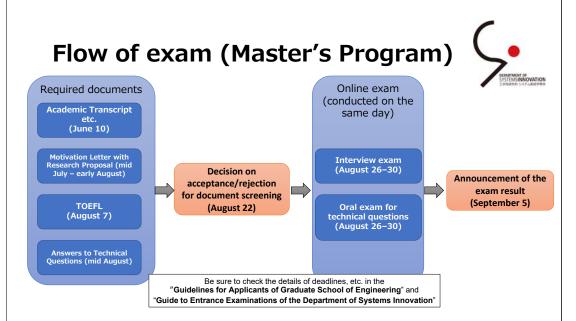
Required Documents (Doctor's program) -1

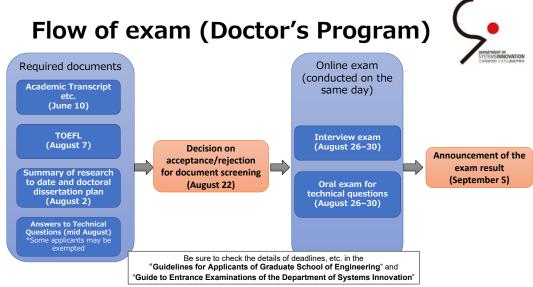
- Documents submitted to Graduate School of Engineering (applications TOEFL scores, etc.)
 - Application period: June 3 (Mon) to 10 (Mon) 3pm
 - Refer to the section 7 of "Guidelines for Applicants to the 2025 Doctor's Program" provided by the University of Tokyo's Graduate School of Engineering.
 - TOEFL official score: Refer to the "Notice regarding Foreign Language (English)
 Examinations in 2025 The University of Tokyo Graduate School of Engineering
 Entrance Examinations (How to submit TOEFL score (Master's program, Doctoral
 program (Application Schedule A · B))". (must arrive <u>August 7 (Wed)</u>)
- Documents directly submitted to Department of Systems Innovation (1/2)
 - ◆ Declaration of Preferred Supervisors (Submission Deadline: June 10 (Mon))
 - ◆ Answers to Technical Questions (Submission Deadline: mid August, details will be announced on department website)
 - Notification of technical questions: late July early August
 - Document format can be downloaded from department website.
 - Applicants may be exempted to submit Answers to Technical Questions.
 - Submission method etc., will be published on the department website.

Required Documents (Doctor's program) -2



- Documents directly submitted to Department of Systems Innovation (2/2)
 - ◆ PDF file of the presentation materials you plan to use in the general oral exam (submission deadline: August 24 (Sat))
 - · Only applicants who pass the document screening
 - <u>Applicants taking only the primary examinations (primary oral examination)</u> (Submission deadline: **August 2 (Fri)**)
 - ◆ Summary of research to date (4 pages, A4 or US Letter; 1 copy)
 - ◆ Doctoral dissertation plan (1 page, A4 or US Letter; 1 copy)
 - Applicants taking the secondary examination (combined primary and secondary oral examinations) (Submission deadline: August 2 (Fri))
 - ◆ Summary of research to date and doctoral dissertation plan (6 pages, A4 or US Letter; 1 copy)
 - ◆ Copy of your master's thesis (or equivalent other document[s] illustrating research achievements) (1 copy)
 - ◆ List of research achievements (1 copy)
 - Refer to Guide to Entrance Examinations for details





Review of important points



- Please regularly check the department website for the latest information
 - Details on examination will be announced on the department website as soon as they are determined.
- The contents of Problems Related to Systems Innovation will be similar to those of the last year.
- Please read both "Guidelines for Applicants of Graduate School of Engineering" and "Guide to Entrance Examinations of the Department of Systems Innovation" for details.
 - Be sure to get and read both material.
 - For doctoral programs, please carefully read the requirements for exemption from the English examination and technical questions.

Notifications



- ■Do not share the URL or password, etc., for the online exams.
- ■Do not post any examination materials on the Internet.
- •Unless explicitly instructed by the examiner, taking photographs, capturing screenshots, and/or making audio and video recordings are strictly prohibited during the online exams.
- These actions are judged as cheating.

Miscellaneous



- Supervisor's list
 - Supervisor's list is available in Guide to Entrance Examinations.
 - Contact address is not shown in the list. Please individually ask supervisors or check website.
 - See a faculty introduction page on our website

https://www.sys.t.u-tokyo.ac.jp/labinfo/portal/

Miscellaneous



- ■Financial support
 - Eligible student of master's programs are also exempted from full or half tuition and enrollment fees, depending on academic performance and household financial situation (specific criteria are shown on the website of UTokyo).
 - For doctoral programs, various financial support systems are available.
 - The Japan Student Services Organization (JASSO) offers scholarships for both master's and doctoral students. You may be exempted to pay back the scholarship for the students with excellent academic records

Miscellaneous



■ Contact us: The Administrative Office of the Department of Systems Innovations

◆Tel: 03-5841-6533

◆Email: admission@sys.t.u-tokyo.ac.jp

◆Inquiry form (General):

http://www.sys.t.u-tokyo.ac.jp/contact/

◆Inquiry form (Entrance exam): https://www.sys.t.u-tokyo.ac.jp/admissions/regularadmission/

■Information session for entrance exam will be conducted one more time

■ 2nd information session: May 25th (Sat) 13:00-(Hybrid style: in person and online)

Questionnaire





https://forms.gle/UUjQAhv3aYps q1o26

←Please access the questionnaire form from this QR code