問題発見型/解決型学習(FBL/PBL) (社会情報学専攻) テーマ提案(学生募集)/ Project Proposal

テーマ名称	ブロックチェイン技術を用いた新しい社会システムの探索		
Project name			
実施責任者	Exploring New Social Systems with Blockchain Technologies		
大心貝口石 Instructors	Toru Ishida: Professor, Department of Social Informatics		
実施協力者	Donahui Lin, Assistant Professor, Donartment of Social Informatics		
Collaborators	Donghui Lin: Assistant Professor, Department of Social Informatics		
	Yoshinori Hara: Professor, Graduate School of Management		
テーマの背景 Background	A blockchain, is a continuously growing list of records, called blocks, which are linked and secured using cryptography. A blockchain is inherently resistant to modification of the data. Once recorded, the data in any given block cannot be altered retroactively without the alteration of all subsequent blocks, which requires collusion of the network majority. Blockchains are secure by design and are an example of a distributed computing system with high Byzantine fault tolerance. This makes blockchains potentially suitable for the sharing a variety of records to ensure traceability without any centralized control, and thus the technology may create a huge impact to our society worldwide.		
実習の概要・実施場所 Overview and location	This FBL/PBL explores new social systems by using blockchain technologies. There already exists a variety of trials. We survey those activities and evaluate their potentials. We then try to create several new applications for future societies. For example, we can design a new documentation sharing system to create customized teaching materials, which can fit to any educational environment; teachers can freely use existing materials with reasonable costs, while keeping the compatibility with existing copyright systems. The FBL/PBL includes literature reviews, brainstorming / ideation workshops, invited talks, and presentations. See <i>Schedule</i> to know the location of the FBL/PBL.		
実施言語 Language	Both English and Japanese.		
募集人数 / Number of participants	At least 2, at most 10.		
応募資格	Graduate students of Kyoto University.		
Intended participants	If the number of applicants is more than 10, the higher priority will go to students of Dept. Social Informatics and/or Kyoto University Design School.		
応募方法	Send e-mail to <u>ishida@i.kyoto-u.ac.jp</u> and <u>coordinator@ai.soc.i.kyoto-u.ac.jp</u>		
How to apply	by the end of April. The notification is due on May 11.		
関連するデザイン理論/手法 とその学習方法 Design theories and methods for framing and solving problems	Domain (Informatics) design theory/methods are related to the classes including <i>Information Society, Information System Design</i> and <i>Information System Analysis</i> . Professional knowledge about distributed systems / cryptography is not mandatory. General design theory/methods includes facilitation and ideation methods, which will be introduced in this FBL/PBL. The blockchain related books and articles / papers will be provided at the first class.		
成績評価および成果の公開 方法 Evaluation and publication	Active participation (40%), an intermediated presentation (30%), and a final presentation (30%). The result of the final presentation (slides) will be published at the web site of the Department / Design School.		

実施計画 / Schedule

(テーマ提案時に詳細な内容が未定の場合は、記載不要。「実習の概要」に記載)

コマ	日程	場所	実施内容
Unit	Date	Location	Content
1	May 18 Fri	Lounge 4F, Building 7th	Introduction (1 unit: 16:30-18:00, May 18).
3	June 1	Lounge 4F,	Literature Review
	Fri	Building 7th	Group work (2 units: flexible, June 1 or before) and a meeting with faculty members (1 unit: 16:30-18:30, June 1).
3	June 8	Lounge 4F,	Literature Review
	Fri	Building 7th	Group work (2 units: flexible, June 8 or before) and an
			intermediate presentation by each student (by slides) to limited audiences (1 unit: 16:30-18:30, June 7).
3	June 15	Lounge 4F,	Brainstorming / Ideation Workshop
	Fri	Building 7th	Group work (2 units: flexible, June 15 or before) and a meeting
			with faculty members (1 unit: 16:30-18:30, June 15). An invited
			talk will be arranged from 16:30 to 18:00 on June 15 or 22.
3	June 22	Lounge 4F,	Brainstorming / Ideation Workshop
	Fri	Building 7th	Group work (2 units: flexible, June 22 or before) and a meeting
			with faculty members (1 unit: 16:30-18:30, June 22). An invited
			talk will be arranged on June 15 or 22, from 16:30 to 18:00.
2	TBD by	TBD by Department	Presentation
	Department of Social	of Social Informatics	A preparation (1 unit: flexible) and an official final group
	Informatics		presentation (slides) open to students / faculty members of
			Department of Social Informatics (1 unit: to be determined by
			Department of Social Informatics).