IFI7128	User Modeling and Recommender Systems			
Study load:	Load of contact	Study semester:	Exam	
4 (EAP/ECTS)	hours: 16	Autumn		
Objectives:	The course will provide the students with the conceptual knowle			
	enabling the design of an adaptive recommender system in various			
	domains.			
Course outline:	User modeling is a cross-disciplinary research field that attempts to construct models of human behavior within a specific computer			
	environment. The goal is not to imitate human behavior but to make the machine able to understand what the expectations, goals,			
	knowledge, information needs, and desires of a user are in terms of a			
	specific computing environment. Recommendations utilize the			
	information stored in a user model. Simple examples of a			
	recommendation system are e-commerce sites which make use of the			
	user's previous purchasing and browsing behavior to recommend			
	new products or personalized news recommendation based on the			
	user's previous news articles read.			
	In this class the focus is on obtaining a general understanding of state			
	of the art user modeling techniques and recommendation			
	mechanisms. The student will learn to critically discuss relevant			
	topics and apply the mechanisms to different domains. They will do a			
	course project where students design a system that explicitly provide			
	recommendations to its users about a specific domain. Students will			
	learn about the techniques through presentations; reading/discussing			
	seminal papers; analyzing well-known recommender systems;			
	developing a project; and peer-reviewing their colleagues work.			
	Independent work: Students are require to critically analyze a well-			
	known recommender system and to design a system that explicitly			
	provide recommendations to its users about a specific domain.			
	Further, students will be required to peer-review the work done by			
	other students.			
	More details of the cou	arse content and the w	ay it is structured in each	
	lecture can be looked up at			
	http://htk.tlu.ee/recommendersystems/index.php/Course_Plan			
Learning Outcomes:	The student is able to:			
	 make concepts of user models and recommender systems for different application fields. 			
	• identify an applicable configuration of methods for a given			
	domain.	C	C	
	Students are also expec	cted to acquire concep	tual knowledge enabling	
	the design of user models and recommender systems; and to develop			
	an understanding of the limitations, drawbacks and benefits of the			
	technologies to discuss these issues.			
Assessment Methods:	The evaluation will be based on the projects done and the feed-back			
	provided to other students. The percentages are as follow:			
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	Case Exercises: 20%		
	• Case Exercise done: 12%		
	o Presentation: 5%		
	 Feed-back provided: 3% 		
	o recu-back provided. 5%		
	• Final Project: 80%		
	 Final Project done: 50% 		
	Presentation: 15%		
	 Feed-back provided: 15% 		
Teacher(s):	Adolfo Ruiz Calleja		
Subject name in Estonian:	Kasutaja modelleerimine ja soovitussüsteemid		
Prerequisite subject(s):	-		
Compulsory	Readings will be from current literature; they will be uploaded to the		
Literature:	course Wiki:		
	http://htk.tlu.ee/recommendersystems/index.php/Resources		
Replacement	Relevant documents can be found in the course Wiki:		
Literature:	http://htk.tlu.ee/recommendersystems/index.php/Resources		
	Students are expected to contribute by obtaining and sharing relevant		
	resources for the course.		
Participation and	Students should write and orally present a case study in groups and a		
Exam requirements:	final project individually in order to be evaluated. Students are also		
1	required to attend the face-to-face lessons.		
Independent work:	Practical exercises and peer-reviews		
Grading criteria scale	The students are required to be able to apply the knowledge related to		
or the minimal level	user modelling and recommender systems acquired during the		
necessary for passing	course.		
the subject:	Every student will write and present a case study and a project,		
ine subjecti	which will be later on evaluated, taking into account both the content		
	and the way they are presented. Further, students will also be		
	required to peer-review the work of their colleagues and the feedback		
	they provide will also be evaluated.		
	Details can be looked up at:		
	http://htk.tlu.ee/recommendersystems/index.php/Evaluation		
Information about the	More details of the course content and the way it is structured in each		
course:	lecture can be looked up at		
	http://htk.tlu.ee/recommendersystems/index.php/Course_Plan		
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