











I	Basic Concepts , H	low Used , Readi	ings
Goal/Task Based User Interfaces	Intelligent Tutoring Systems	Automated GUI Design	Personal Assistants
Recommender Systems	Multimodal Dialogue	Collaborative Dialogue	Embodied Conversational Agents
Affective Computing	Human-Robot Interaction	Intelligent Environments	???





























CEA-2018 Ta	sk Model D	escription	
WG12 Participa	ants:		
Motorola	JVC	HBO	
NAB	TCS	4HomeMedia	
LonMarks	AT&T	DirectTV	
Hitachi	LOYTEC	EchoStar	
Alpine	Panasonic	;	
@ <u>) WPI</u> CS 525U (S 08)			22







askModel	
about="http://ce.org/cea-2018/AnnexB"	<task id="selectServer"></task>
xmlns="http://ce.org/cea-2018"	<input name="selectedMediaServer" type="string"/>
xmlns:dc="http://purl.org/dc/elements/1.1"	
xmlns:dcterms="http://purl.org/dc/terms">	<task id="browse"></task>
	<input name="browseFilter" type="string"/>
<dc:title xml:lang="en">Playing Music</dc:title>	<input name="browseSortCriteria" type="string"/>
<dc:description xml:lang="en">CEA-2018 conformant sample task model description for</dc:description>	
playing music with UPnP AV devices and URC grounding.	<task id="selectNode"></task>
<dc:creator>Gottfried Zimmermann</dc:creator>	<input name="selectedNodeld" type="string"/>
<dc:contributor>Charles Rich</dc:contributor>	
<dcterms:issued>2007-08-25</dcterms:issued>	<task id="selectRenderer"></task>
<dcterms:modified>2007-09-10</dcterms:modified>	<input name="selectedMediaRenderer" type="string"/>
<task id="playMusic"></task>	<task id="selectPreset"></task>
<subtasks id="playMusicSteps" ordered="false"></subtasks>	<input name="presetName" type="string"/>
<step name="select" task="selectMusic"></step>	
<step name="configure" task="configureRenderer"></step>	<task id="connect"></task>
<step name="connect" requires="select configure" task="connect"></step>	<input name="preferredConnectionProtocol" type="string"/>
<step name="play" requires="connect" task="play"></step>	<output name="newConnectionId" type="string"></output>
 slot="\$connect.preferredConnectionProtocol" value=""*"/>	<output name="error" type="ErrorDescription"></output>
	<task id="play"></task>
<task id="selectMusic"></task>	<input name="connectionId" type="string"/>
<subtasks id="selectMusicSteps"></subtasks>	<input name="playCurrentPlayMode" type="PlayMode"/>
<step name="server" task="selectServer"></step>	<pre><input name="playTransportPlaySpeed" type="PlaySpeed"/></pre>
<step name="browse" task="browse"></step>	
<step name="node" task="selectNode"></step>	
 	external events
 slot="\$browse.browseSortCriteria" value="+dc:title"/>	
<hinding slot="\$nlay connectionId" value="\$connect newConnectionId"></hinding>	<task id="transnortStatusError"></task>
	<pre><pre>soutput name="error" type="ErrorDescription"/></pre></pre>
task id="configureRenderer">	<task id="conNotifyContentFormatMismatch"></task>
<subtasks id="configureRendererStens"></subtasks>	<pre><pre>soutput name="error" type="ErrorDescription"/></pre></pre>
<sten name="select" task="selectRenderer"></sten>	
<pre>ceten name="nreset" task="selectPreset" minOccurs="0" maxOccurs="1"/></pre>	<task id="conNotifulnsufficientNetworkResources"></task>
	<pre><output name="error" type="ErrorDescription"></output></pre>
claska	
- Idak-	<task-< td=""></task-<>
cognint platform="LIPC">	 <ask id="convolityonreliablechanner</li"> <ask id="convolityonreliablechanner</li"> <ask id="convolityonreliablechanner</li"> <ask id="convolityonreliablechanner</a"></ask> </ask></ask></ask>
//	stock id="conNotiful InknownConnoctionError">
vacubra	<pre> stask iu= connotinyonknownConnectionError> couteut nome="error" trace="ErrorDepartment"> </pre>
consist slatform_"I IDC" isit="true">	 output name= error type= ErrorDescription />
script platform= Orco Init= true >	N/LISK/
<i>II</i>	

































Goal/Task Based User Interfaces -all (except maybe recommender systems)	Intelligent Tutoring Systems -goal/task based UI -multimodal dialogue -collaborative dialogue -embodied conv. agent -affective computing	Automated GUI Design -goal/task based UI -personal assistants	Personal Assistants -goal/task based UI -recommender systems -embodied conv. agent
Recommender Systems -personal assistants	Multimodal Dialogue -goal/task based UI -multimodal dialogue -intelligent tutoring sys. -personal assistants	Collaborative Dialogue -goal/task based UI -multimodal dialogue -intelligent tutoring sys. -personal assistants	Embodied Conversational Agents -goal/task based UI -multimodal dialogue -intelligent tutoring sys. -personal assistants
Affective Computing -goal/task based UI -multimodal dialogue -intelligent tutoring sys. -human-robot interact.	Human-Robot Interaction -goal/task based UI -multimodal dialogue -collaborative dialogue -affective computing	Intelligent Environments -goal/task based UI -multimodal dialogue -personal assistants	















