Supplementary material: Studies included in the systematic mapping study

General						*Evaluation*			
ID	Study	Year	Solution offered	Research Type	Domain	Intelligent entity	UX	Usability	Method
S1	[1]	2022	Methodology	Evaluation research	Software engineering	Interface	Yes	No	Expert based evaluation, User testing
S2	[2]	2022	Evaluation	Validation research	Software engineering	Component	No	No	
S3	[3]	2022	Approach	Validation research	Communication	Interface	No	No	
S4	[4]	2022	Evaluation	Evaluation research	Software engineering	Software engineering	Yes	No	Experiment, Survey
S5	[5]	2022	User study	Validation research	Human-computer interaction	Agent	No	No	
S6	[6]	2022	Model	Validation research	Human-computer interaction	Interaction	No	No	
S7	[7]	2022	Software Solution	Validation research	Human-computer interaction	Other model	No	No	
S8	[8]	2022	Field overview	Literature review	Software engineering	N/A	N/A	N/A	
S9	[9]	2021	Recommender system	Solution proposal	Education	Interface	No	No	
S10	[10]	2021	System	Evaluation research	Software engineering	Interface	Yes	N/A	Focus groups
S11	[11]	2021	Framework	Evaluation research	Software engineering	Interface	No	Yes	User testing, Questionnaire
S12	[12]	2021	HCI Recognition	Solution proposal	Human-computer interaction	Algorithm	No	No	
S13	[13]	2021	User study	Validation research	Human-computer interaction	Agent	Partly	No	
S14	[14]	2021	Framework	Solution proposal	Human-computer interaction	Interface	N/A	N/A	
S15	[15]	2021	Agent	Validation research	Logistics and vehicles	Agent	No	No	
S16	[16]	2021	Model	Validation research	Software engineering	Other model	N/A	N/A	
S17	[17]	2021	Chat bot	Exploratory	Software engineering	Software	No	No	
S18	[18]	2021	User Interface	Evaluation research	Academia	Interface	No	Yes	User testing, Questionnaire
S19	[19]	2021	Framework	Validation research	3D printing	Interface	No	Yes	User testing, Questionnaire
S20	[20]	2021	User Interface	Validation research	Healthcare	Agent	No	No	

General						*Evaluation*			
ID	Study	Year	Solution offered	Research Type	Domain	Intelligent entity	UX	Usability	Method
S21	[21]	2021	User Interface	Validation research	Accessibility	Interface	No	Yes	User Testing
S22	[22]	2021	Recommender system	Solution proposal	Academia	Interface	No	No	
S23	[23]	2021	System	Validation research	Healthcare	System	No	No	
S24	[24]	2021	Approach	Validation research	Healthcare	Other model	N/A	N/A	
S25	[25]	2021	Field overview	Opinion paper	Human-computer interaction	Interface	Partly	No	
S26	[26]	2021	Field overview	Solution proposal	Software engineering	Agent	No	No	
S27	[27]	2021	Pipeline	Validation research	Software engineering	Algorithm	N/A	No	
S28	[28]	2021	Field overview	Literature review	Human-computer interaction	N/A	No*	Yes	
S29	[29]	2020	Approach	Solution proposal	Software engineering	Interface	N/A	N/A	
S30	[30]	2020	Field overview	Solution proposal	Software engineering	N/A	N/A	No	
S31	[31]	2020	Model	Solution proposal	Software engineering	Other model	N/A	N/A	
S32	[32]	2020	Field overview	Literature review	Human-computer interaction	Interaction	N/A	N/A	
S33	[33]	2020	User Interface	Evaluation research	Software engineering	Interface	No*	Yes	User testing, Questionnaire
S34	[34]	2020	Field overview	Literature review	Human-computer interaction	N/A	No	No	
S35	[35]	2020	Interaction	Evaluation research	Accessibility	Interaction	No*	Yes	Questionnaire
S36	[36]	2020	User Interface	Validation research	Other	Interface	No	No	
S37	[37]	2020	framework	Validation research	Human-computer interaction	Other model	N/A	N/A	
S38	[38]	2020	System	Evaluation research	Accessibility	Interface	Partly	No	
S39	[39]	2020	User study	Evaluation research	Human-computer interaction	System	Partly	No	
S40	[40]	2020	User study	Evaluation research	Recommendation	System	Partly	No	
S41	[41]	2020	User study	Evaluation research	Human-computer interaction	Agent	Partly	No	
S42	[42]	2020	User study	Evaluation research	Human-computer interaction	Other model	Yes	No	User testing, Survey
S43	[43]	2020	User Interface	Solution proposal	Communication	Conversational UI	No	No	
S44	[44]	2020	Application	Solution proposal	Healthcare	Application	No	No	

General						*Evaluation*			
ID	Study	Year	Solution offered	Research Type	Domain	Intelligent entity	UX	Usability	Method
S45	[45]	2020	Framework	Validation research	Software engineering	Interface	Yes	No	Automated testing
S46	[46]	2020	User study/insight	Evaluation research	Human-computer interaction	Recommender system	Yes	No	User study, Experiment
S47	[47]	2020	Model	Evaluation research	Human-computer interaction	Method	N/A	N/A	
S48	[48]	2020	User study/insight	Evaluation research	Human-computer interaction	Recommender system	Partly	N/A	
S49	[49]	2020	User Interface	Validation research	Accessibility	Interface	No	No	
S50	[50]	2020	User Interface	Solution proposal	Security	Interface	No	No	
S51	[51]	2020	Agent	Evaluation research	Human-computer interaction	Agent	Yes	No	User testing
S52	[52]	2020	User Interface	Solution proposal	Human-computer interaction	Interface	No	No	
S53	[53]	2019	User Interface	Solution proposal	Logistics and vehicles	Agent	No	No	
S54	[54]	2019	User study	Solution proposal	Human-computer interaction	N/A	N/A	N/A	
S55	[55]	2019	Recommender system	Validation research	Software engineering	Recommender system	No	No	
S56	[56]	2019	Field overview	Literature review	Human-computer interaction	N/A	No	No	
S57	[57]	2019	Process	Solution proposal	Software engineering	Interface	N/A	No	
S58	[58]	2019	Approach	Exploratory	Culture	N/A	N/A	N/A	
S59	[59]	2019	Model	Solution proposal	Human-computer interaction	Other model	N/A	N/A	
S60	[60]	2019	Evaluation	Evaluation research	Logistics and vehicles	Interface	Yes	No	Experiment, Interview
S61	[61]	2019	Evaluation	Evaluation research	Recommendation	Interface	Yes	No	Survey, User testing
S62	[62]	2019	User Interface	Validation research	Security	Interface	Partly	No	
S63	[63]	2019	Technique / Method	Solution proposal	Human-computer interaction	Interface	No	No	
S64	[64]	2019	User Interface	Validation research	Sport	Interface	Partly	No	
S65	[65]	2019	Device	Solution proposal	Human-computer interaction	Machine	No	No	
S66	[66]	2019	Framework	Solution proposal	Software engineering	Interface	N/A	No	
S67	[67]	2019	Application	Evaluation research	Software engineering	Interaction	No	No	

General						*Evaluation*			
ID	Study	Year	Solution offered	Research Type	Domain	Intelligent entity	UX	Usability	Method
S68	[68]	2019	Field overview	Exploratory	Human-computer interaction	Interface	Partly	No	
S69	[69]	2019	User study/insight	Validation research	Recommendation	Recommender system	Partly	No	
S70	[70]	2019	Field overview	Solution proposal	Music	Interface	No	No	
S71	[71]	2019	Agent	Validation research	Insurance	Interface agent	Yes	No	Expert based evaluation, User testing
S72	[72]	2019	Field overview	Evaluation research	Software engineering	Interface	N/A	No	
S73	[73]	2019	User Interface	Validation research	Management and organisation	Interface	Partly	No	
S74	[74]	2019	Recommender system	Evaluation research	Music	Recommender system	Yes	No	User testing
S75	[75]	2019	Agent	Evaluation research	Insurance	Interface agent	Yes	No	User testing
S76	[76]	2019	Technique / Method	Evaluation research	Robotics	Conversational UI	Partly	No	Expert based evaluation, User testing
S77	[77]	2019	Model	Validation research	Education	System	No	No	
S78	[78]	2019	Framework	Solution proposal	Human-computer interaction	System	No	No	
S79	[79]	2018	Framework	Validation research	Software engineering	System	No	No	
S80	[80]	2018	Data collection	Solution proposal	Human-computer interaction	N/A	N/A	N/A	
S81	[81]	2018	System	Solution proposal	Communication	System	No	No	
S82	[82]	2018	Model	Validation research	Sales	Interface	No	No	User study
S83	[83]	2018	Interaction	Validation research	Human-computer interaction	Conversational UI	N/A	N/A	
S84	[84]	2018	User study	Validation research	Accessibility	Interface	No	No	
S85	[85]	2018	User Interface	Evaluation research	Healthcare	Interface	Partly	No	
S86	[86]	2018	User Interface	Validation research	Logistics and vehicles	Conversational UI	No	No	
S87	[87]	2018	System	Validation research	Human-computer interaction	System	N/A	N/A	
S88	[88]	2018	HCI Recognition	Validation research	Entertainment and Games	Software	N/A	N/A	
S87	[89]	2018	Field overview	Literature review	Healthcare	Interface	N/A	N/A	
S89	[90]	2018	User Interface	Validation research	Photography	Interface	Partly	No	Survey

General						*Evaluation*			
ID	Study	Year	Solution offered	Research Type	Domain	Intelligent entity	UX	Usability	Method
S90	[91]	2018	Technique / Method	Validation research	Human-computer interaction	Interface	N/A	No	
S91	[92]	2018	User Interface	Solution proposal	Factory and production	Interface	No	No	
S92	[93]	2018	Browser	Solution proposal	Work and productivity	Interface	No	No	
S93	[94]	2018	Algorithm	Validation research	Finance	Interface	No	No	
S94	[95]	2017	Model	Validation research	Healthcare	Interface	No	No	
S95	[96]	2017	Design space	Solution proposal	Human-computer interaction	Interface	No	No	
S96	[97]	2017	Platform	Validation research	Energy	Interface	No	No	
S97	[98]	2017	Model	Solution proposal	Software engineering	Other model	N/A	N/A	
S98	[99]	2017	User Interface	Validation research	Software engineering	Interface	No	No	
S99	[100]	2017	Approach	Validation research	Healthcare	Algorithm	N/A	N/A	
S100	[101]	2017	User Interface	Validation research	Software engineering	Interface	No	Yes	User testing, Questionnaire, Usability Metrics / Software Metrics
S101	[102]	2017	Evaluation	Evaluation research	Healthcare	Interface	Yes	Yes	Expert based evaluation, "Thinking aloud" Protocol, User testing, Interview
S102	[103]	2017	Technique / Method	Validation research	Software engineering	Recommender system	N/A	N/A	
S103	[104]	2017	Model	Solution proposal	Human-computer interaction	Interface	No	No	
S104	[105]	2017	Prediction	Solution proposal	Human-computer interaction	Interface	No	No	
S105	[106]	2017	User Interface	Solution proposal	Communication	Interface	N/A	N/A	
S106	[107]	2017	Approach	Evaluation research	Statistics and data analytics	Interface	Partly	No	User testing, interview, Survey
S107	[108]	2017	Algorithm	Solution proposal	Health and wellbeing	N/A	N/A	N/A	
S108	[109]	2017	Field overview	Opinion paper	Music	Interface	N/A	N/A	
S109	[110]	2017	System	Solution proposal	Academia	Interface	No	No	
S110	[111]	2017	System	Validation research	Healthcare	Machine	No	No	

General						*Evaluation*			
ID	Study	Year	Solution offered	Research Type	Domain	Intelligent entity	UX	Usability	Method
S111	[112]	2017	User Interface	Solution proposal	Culture	Interface	No	No	
S112	[113]	2017	User Interface	Solution proposal	Human-computer interaction	Interface	No	No	
S113	[114]	2017	Recommender system	Validation research	Fashion	Interface	No	No	
S114	[115]	2017	User Interface	Solution proposal	Other	Interface	No	No	
S115	[116]	2017	Field overview	Opinion paper	Human-computer interaction	Interface	N/A	No	
S116	[117]	2016	Opinion	Solution proposal	Security	N/A	N/A	N/A	
S117	[118]	2016	Methodology	Validation research	Software engineering	System	N/A	N/A	
S118	[119]	2016	Concept	Solution proposal	Software engineering	N/A	N/A	No	
S119	[120]	2016	UI element	Validation research	Human-computer interaction	Component	No	No	
S120	[121]	2016	Application	Solution proposal	Healthcare	Interface	No	No	
S121	[122]	2016	Model	Solution proposal	Software engineering	Other model	N/A	N/A	
S122	[123]	2016	Technique / Method	Validation research	Human-computer interaction	N/A	N/A	N/A	
S123	[124]	2016	Interaction	Solution proposal	Human-computer interaction	Machine	N/A	N/A	
S124	[125]	2016	Field overview	Solution proposal	Cartography and Geolocation	Interface	N/A	N/A	
S125	[126]	2016	User Interface	Validation research	Healthcare	Interface	No	No	
S126	[127]	2016	User study	Validation research	Human-computer interaction	Interface	No	No	
S127	[128]	2016	Algorithm	Validation research	Software engineering	Algorithm	N/A	N/A	
S128	[129]	2016	User Interface	Solution proposal	Software engineering	Interface	N/A	N/A	
S129	[130]	2016	Algorithm	Validation research	Software engineering	Algorithm	N/A	N/A	
S130	[131]	2016	Agent	Evaluation research	Academia	Agent	Yes	No	"Thinking aloud" method, Experiment, User testing
S131	[132]	2016	User Interface	Validation research	Logistics and vehicles	Interface	No	No	
S132	[133]	2016	Agent	Solution proposal	Software engineering	Agent	N/A	N/A	
S133	[134]	2016	Model	Validation research	Software engineering	Interface	No	No	

General						*Evaluation*			
ID	Study	Year	Solution offered	Research Type	Domain	Intelligent entity	UX	Usability	Method
S134	[135]	2016	Technique / Method	Validation research	Software engineering	Algorithm	N/A	N/A	
S135	[136]	2016	Agent	Validation research	Communication	Agent	No	No	
S136	[137]	2016	System	Evaluation research	Healthcare	Interface	Yes	No	Survey, Experiment, Expert based evaluation
S137	[138]	2016	Application	Solution proposal	Health and wellbeing	Interface	No	No	
S138	[139]	2015	Evaluation	Evaluation research	Software engineering	N/A	No*	Yes	User testing
S139	[140]	2015	Assistance	Validation research	Software engineering	Assistance	N/A	N/A	
S140	[141]	2015	Dataset	Validation research	Human-computer interaction	Interface	No	No	
S141	[142]	2015	User study	Validation research	Human-computer interaction	Other model	N/A	N/A	
S142	[143]	2015	Tool	Solution proposal	Statistics and data analytics	Interface	No	No	
S143	[144]	2015	Framework	Validation research	Human-computer interaction	N/A	N/A	N/A	
S144	[145]	2015	User study	Exploratory	Human-computer interaction	N/A	N/A	N/A	
S145	[146]	2015	Approach	Evaluation research	Robotics	Interface	Partly	No	
S146	[147]	2015	User Interface	Validation research	Work and productivity	Interface	No	No	
S147	[148]	2015	Opinion	Opinion paper	Entertainment and Games	Interface	No	No	
S148	[149]	2015	Model	Solution proposal	Software engineering	Interface	No	No	
S149	[150]	2015	Evaluation	Evaluation research	Software engineering	Interface	No	No	
S150	[151]	2015	Framework	Solution proposal	Software engineering	System	No	No	
S151	[152]	2015	Evaluation	Evaluation research	Recommendation	Interface	Yes	Yes	Experiment, User testing, Survey
S152	[153]	2015	Technique / Method	Validation research	Other	Algorithm	N/A	N/A	
S153	[154]	2015	User Interface	Solution proposal	Industry	Interface	No	No	
S154	[155]	2015	Application	Evaluation research	Education	Application	Partly	No	User testing
S155	[156]	2015	Methodology	Solution proposal	Software engineering	Interface	No	No	
S156	[157]	2015	Technique / Method	Solution proposal	Human-computer interaction	Interface	No	No	

General						*Evaluation*			
ID	Study	Year	Solution offered	Research Type	Domain	Intelligent entity	UX	Usability	Method
S157	[158]	2015	Methodology	Validation research	Human-computer interaction	Interface	No*	Yes	
S158	[159]	2015	User Interface	Evaluation research	Human-computer interaction	Interface	Partly	No	User testing, Survey
S159	[160]	2015	Ontology	Solution proposal	Robotics	Interface	No	No	
S160	[161]	2015	Platform	Validation research	Recommendation	Interface	No	No	
S161	[162]	2015	System	Validation research	Software engineering	System	N/A	N/A	
S162	[163]	2014	Technique / Method	Evaluation research	Security	Component	No*	Yes	User Testing, Usability Metrics / Software Metrics
S163	[164]	2014	System	Validation research	Software engineering	System	No	No	
S164	[165]	2014	Model	Solution proposal	Accessibility	User model	No	No	
S165	[166]	2014	Approach	Validation research	Security	Interface	No	No	
S166	[167]	2014	System	Solution proposal	Software engineering	Algorithm	N/A	N/A	
S167	[168]	2014	System	Validation research	Logistics and vehicles	Interface	No	No	
S168	[169]	2014	User Interface	Validation research	Human-computer interaction	Interface	No	No	
S169	[170]	2014	User Interface	Solution proposal	Statistics and data analytics	Interface	No	No	
S170	[171]	2014	User Interface	Solution proposal	Logistics and vehicles	Interface	No	No	
S171	[172]	2014	Process	Solution proposal	Software engineering	Interface	No	No	
S172	[173]	2014	Characteristics analysis	Solution proposal	Software engineering	Interface	No	No	
S173	[174]	2014	Model	Validation research	Software engineering	Interface	No*	Partly	User testing
S174	[175]	2014	Tool	Validation research	Recommendation	Recommender system	No	No	
S175	[176]	2014	Technique / Method	Solution proposal	Recommendation	Recommender system	No	No	
S176	[177]	2014	System	Validation research	Music	Interface	Partly	No	User testing
S177	[178]	2014	User Interface	Validation research	Healthcare	Dialogue system	No	No	
S178	[179]	2014	Evaluation	Evaluation research	Healthcare	Interface	Yes	Yes	User testing, Survey
S179	[180]	2014	UI element	Validation research	Human-computer interaction	Interface	No	No	
S180	[181]	2014	Tool	Evaluation research	Audio	Interface	Yes	No	User testing, Survey

General						*Evaluation*			
ID	Study	Year	Solution offered	Research Type	Domain	Intelligent entity	UX	Usability	Method
S181	[182]	2014	Agent	Validation research	Communication	Agent	Partly	No	User testing
S182	[183]	2013	Model	Solution proposal	Software engineering	Other model	N/A	N/A	
S183	[184]	2013	Algorithm	Validation research	Software engineering	Method	N/A	N/A	
S184	[185]	2013	Ontology	Solution proposal	Software engineering	Interface	No	N/A	
S185	[186]	2013	System	Evaluation research	Human-computer interaction	Interface	Partly	No	Interview with users
S186	[187]	2013	Tool	Validation research	Management and organisation	Interface	No	No	
S187	[188]	2013	Agent	Validation research	Human-computer interaction	Agent	No	No	
S188	[189]	2013	Agent	Evaluation research	Communication	Other model	Partly	No	User testing, Survey
S189	[190]	2013	System	Validation research	Health and wellbeing	System	No	No	
S190	[191]	2013	Agent	Evaluation research	Communication	Agent	Partly	No	User testing, Experiment
S191	[192]	2013	User study/insight	Validation research	Security	Interface	No*	Yes	User testing, Survey
S192	[193]	2013	User Interface	Solution proposal	Software engineering	Interface	No	No	
S193	[194]	2013	System	Evaluation research	Logistics and vehicles	Interface	No*	Yes	User testing, Interview
S194	[195]	2013	Algorithm	Validation research	Communication	Algorithm	N/A	N/A	
S195	[196]	2013	Evaluation	Evaluation research	Human-computer interaction	Dialogue system	Yes	No	Experiment
S196	[197]	2013	User Interface	Solution proposal	Energy	Interface	No	No	
S197	[198]	2013	Tool	Validation research	Software engineering	Interface	No	No	
S198	[199]	2012	Device	Solution proposal	Military	Interface	No	No	
S199	[200]	2012	System	Validation research	Health and wellbeing	Interaction	N/A	N/A	
S200	[201]	2012	Framework	Literature review	Human-computer interaction	N/A	N/A		
S201	[202]	2012	Assistant	Solution proposal	Logistics and vehicles	Interface	N/A	N/A	
S202	[203]	2012	Approach	Validation research	Software engineering	Agent	No	No	
S203	[204]	2012	System	Evaluation research	Human-computer interaction	System	No*	Yes	User testing, Survey
S204	[205]	2012	Technique / Method	Evaluation research	Healthcare	Interface	No*	Yes	User testing
S205	[206]	2012	Architecture	Validation research	Government	Agent	No	No	

General						*Evaluation*			
ID	Study	Year	Solution offered	Research Type	Domain	Intelligent entity	UX	Usability	Method
S206	[207]	2012	Approach	Solution proposal	Software engineering	Agent	No	No	
S207	[208]	2012	Agent	Validation research	Human-computer interaction	Agent	N/A	N/A	
S208	[209]	2012	Plugin	Validation research	Recommendation	Tool	No	No	
S209	[210]	2012	User Interface	Evaluation research	Accessibility	Interface	No*	Yes	User testing
S210	[211]	2011	Technique / Method	Validation research	Software engineering	Interface	No	No	
S212	[212]	2012	Approach	Validation research	Work and productivity	Agent	No	No	

*No: User experience was evaluated indirectly, via usability; UX evaluation was not mentioned in the study. N/A: Not applicable

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