

Paper	Task	Action	(Data) Target	Interaction Technique	Interaction technique details	Intent	Interaction Effect Details	Interaction Effect
NewsViz: Depicting and Controlling Preference Profiles Using Interactive Treemaps in News Recommender Systems	Adjust preference profile	Adjust	Preference	Hover, Scroll, and Click	Hovering, scrolling, and clicking to adjust the size of cells within a tree-map	Reconfigure	Update users preference of the recommended items, and update visualization	Visual and model effect
ELIXIR: Learning from User Feedback on Explanations to Improve Recommender Models	Provide feedback on item-level explanation	N/A	N/A	Click	Selection	Selection	Update the recommender system model	Model effect
Your eyes explain everything: exploring the use of eye tracking to provide explanations on-the-fly	Exploration	Find	Explanation	Hover, Click	Selection through eye gaze (with hovering and clicking as baselines)	Selection	Reduction of information overload compared to static explanations and decrease effort to ask for explanations	Visual and explanation effect
What's in a user? Towards personalising transparency for music recommender interfaces.	Exploration	N/A	N/A	Hover, Click	Hover, selection	Selection	Update the user model of the recommender system	Model effect
PeerChooser: Visual Interactive Recommendation	Move nodes closer or away (person or genre nodes)	Manipulate	Recommendation	Drag	Node dragging	Reconfigure	Update recommended items	Model effect
Tagsplanations: Explaining Recommendations Using Tags	Select a rating for movies, like/dislike the shown tags, and add tags	Rate	Recommendation/Tags	Click	Rating selection from a dropdown menu and tag rating/addition	Selection, Filter	Tag preference can impact the calculation of tag relevance	Model effect
SmallWorlds: Visualizing Social Recommendations	Specify, refine, and build item-preference profiles	Control	Item-preference profile	Drag and Drop	Node dragging for weight control or changing the layer of an item	Reconfigure	Update recommended items	Model effect
TasteWeights: A Visual Interactive Hybrid Recommender System	Adjust weights of items/context source	Adjust	Recommendation/Context sources weights	Slide	Move sliders for weight adjustment and add/delete items or context sources	Selection	Update recommended items	Model effect
An Interactive Interface for Instilling Trust and providing Diverse Recommendations	Item rating, liked features updates, updating similar users, model impact adjustment (CB vs. CF)	Scrutinize/Control	Recommendation	Slide, Click	User can rate, can ask for an alternative, can change the feature weights, can ask for new recommendation	Explore, Select, Abstract, Connect	Update recommended items	Model effect
What Should I Read Next? A Personalized Visual Publication Recommender System	Explore publications, adjust topic weighting, filter for keywords	Explore/Filter	Recommendation	Input	Textbox for filter controls and threshold adjustments of keywords with a slider	Other	Update recommended items	Model effect
TriRank: Review-aware Explainable Recommendation by Modeling Aspects	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moodplay: Interactive Mood-based Music Discovery and Recommendation	Create item profile, rate items, move personal avatar, filter by mood, and control mood impact	Explore	Recommendation space	Drag, Slice	Dragging user avatar, control mood impact with a slider	Reconfigure	recommended items and the slider controls recommendation space	Visual and model effect
Interactive Visualization of Recommender Systems Data	Visualize recommendations and filter them	Filter	Recommendation	Click	Filtering items by feature constraints or other options (depending on the visualization)	Filter	Reduction of the list of recommended items	Visual effect
Explorative Analysis of Recommendations Through Interactive Visualization	Filter the recommendation space by features, number of nearest neighbours, and number of recommended items	Explore/Filter	Recommendation	Click, Input, Slide	Filtering options through dropdown menus, textboxes, or timeline range selection	Filter	Reduction the list of recommended items	Visual effect
Post-hoc Explanations for Complex Model Recommendations using Simple Methods	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Featuristic: An interactive hybrid system for generating explainable recommendations – beyond system accuracy	Feature selection and feature value/weight selection	Select/Specify	features/feature importance	Slide, Click	Sliders, toggle buttons, dropdown menu to add, modify, or control importance of feature-value	Selection	Update recommended items	Model effect
TindART: A Personal Visual Arts Recommender	Voting on item (like/dislike)	Rate	Recommendation	Slide, Click	Swipe or click to vote	Selection	Update recommended items	Model effect
CourseQ: the impact of visual and interactive course recommendation in university environments	Search keywords, filter/explore items, and select clustering model	Explore/Filter	Recommendation	Slide, Click	Textboxes, dropdown menus, radio buttons	Selection, Filter	Update recommended items	Model effect
Modelling Users with Item Metadata for Explainable and Interactive Recommendation	Create a user profile of items and adjust weights of tags	Adjust	Tag importance	Slide	Slider to adjust tag weights	Selection	Update recommended items	Model effect
AutoCI: A Visual Interactive System for Automatic Deep Learning Classifier Recommendation Based on Models Performance	Choose hyperparameter (epoch, batch-size, and optimizer) settings and metrics for DL model	Select	Hyperparameter/Ranking metric	Click	Dropdown menus	Selection	Update recommended items	Model effect
RecXplainer: Post-Hoc Attribute-Based Explanations for Recommender Systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Explaining Recommendations in E-Learning: Effects on Adolescents' Trust	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TastePaths: Enabling Deeper Exploration and Understanding of Personal Preferences in Recommender Systems	Navigate through a graph of items	Explore	Recommendation	Hover, Click	Hovering, clicking	Selection	Explore the space of recommendations	Visual effect

Effects of personal characteristics in control-oriented user interfaces for music recommender systems.	Adjust preference profile, exploration	Enhance	Recommendation diversity	Click, Slide	Click on available option, sliders to give different weights to various parameters, remove recommendations, sort recommendation	Selection, Filter	Update recommended items	Model effect
Exploring user concerns about disclosing location and emotion information in group recommendations	Determine the preferred privacy-preserving explanation	N/A	N/A	Click, Input	Click on available options provided by the chatbot on or type personalized	Selection	Identify the types of information that the user wants / doesn't want to share with a group	Model effect
Exploring the Effects of Interactive Dialogue in Improving User Control for Explainable Online Symptom Checkers	Requiring explanations through interactive dialog	rovide	Explanation	Click	Mainly yes/no interactions (click on buttons)	Selection	Empowering users with control and freedom, increase system transparency and user trust	Trust effect, transparency effect, explanation effect
Exploring the Role of Local and Global Explanations in Recommender Systems	Exploration	Understand	Explanation	Click, Slide, Input	Click, adjust weights, revert to initial weights, feedback (I would like to see more/less like this), bookmark	Selection, Filter	The role of explanations to help users understand the recommendations	Explanation effect