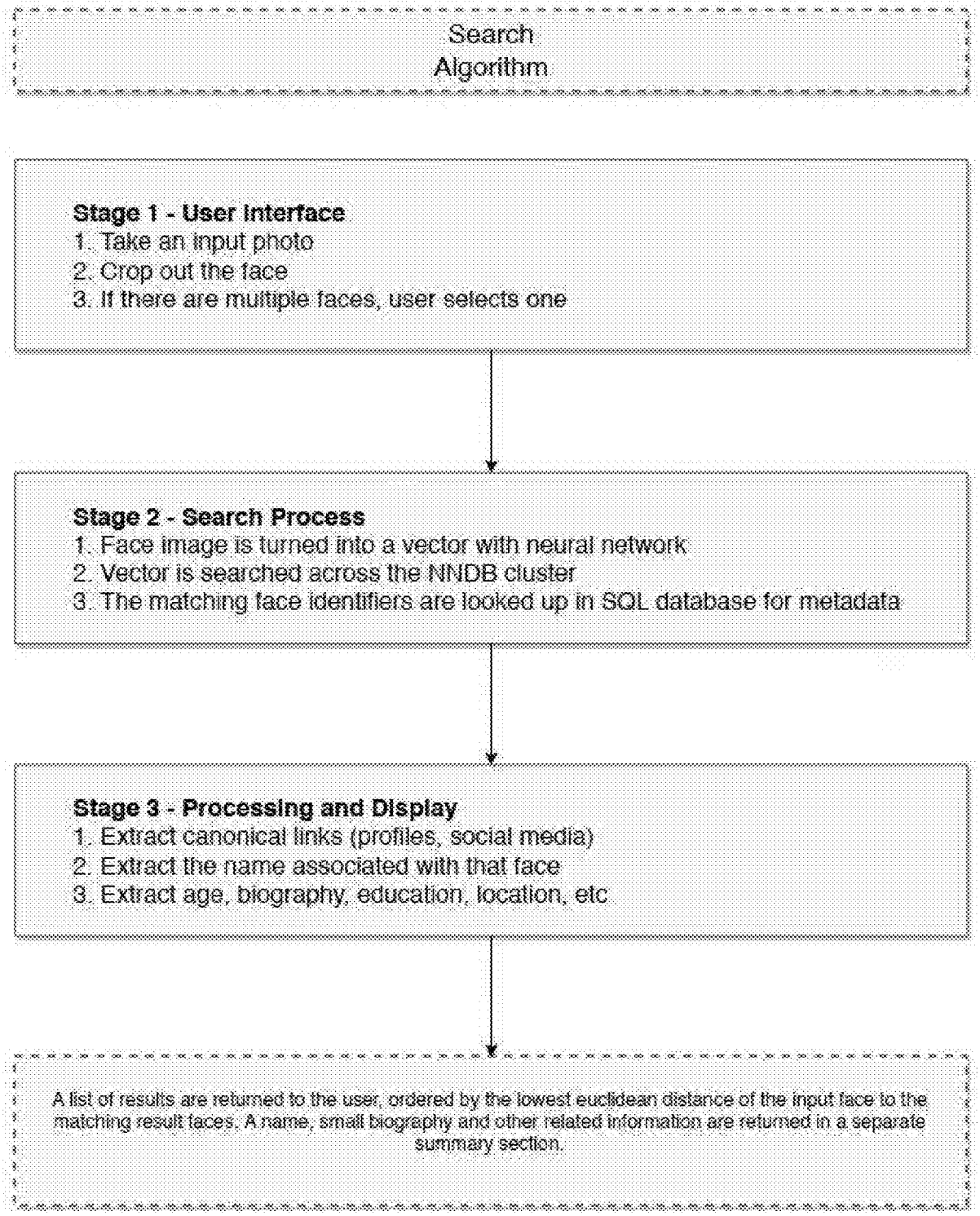
Search
Algorithm
Stage 1 - User Interface
1. Take an input photo
2. Crop out the face
3. If there are multiple faces, user selects one
Stage 2 - Search Process
1. Face image is turned into a vector with neural network
2. Vector is searched across the NNDB cluster
3. The matching face identifiers are looked up in SQL database for metadata
Stage 3 - Processing and Display
1. Extract canonical links (profiles, social media)
2. Extract the name associated with that face
3. Extract age, biography, education, location, etc
A list of results are returned to the user, ordered by the lowest euclidean distance of the input face to the matching result faces. A name, small biography and other related information are returned in a separate summary section.

FIG. 2