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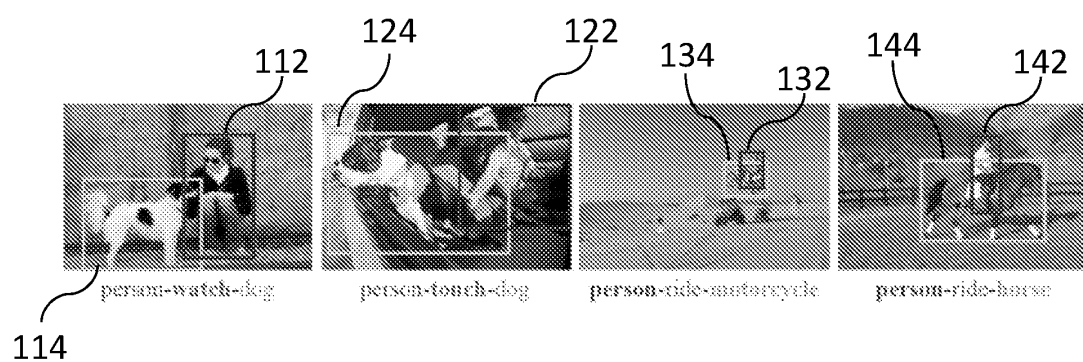


Figure 1a

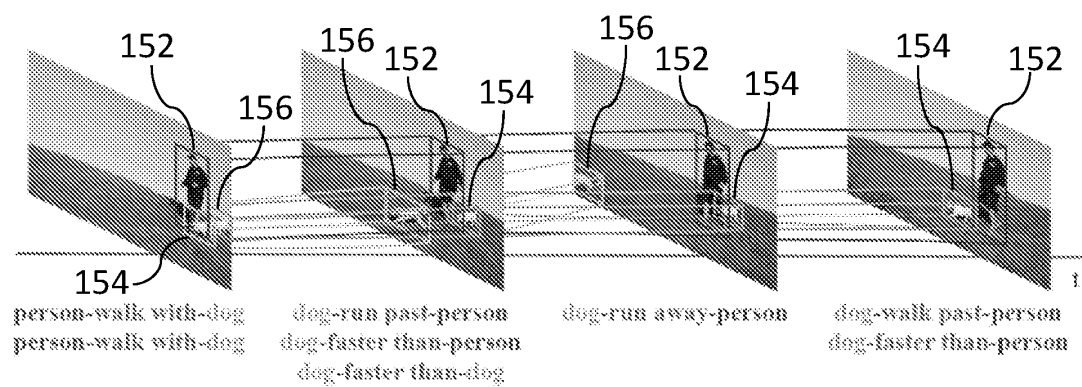


Figure 1b

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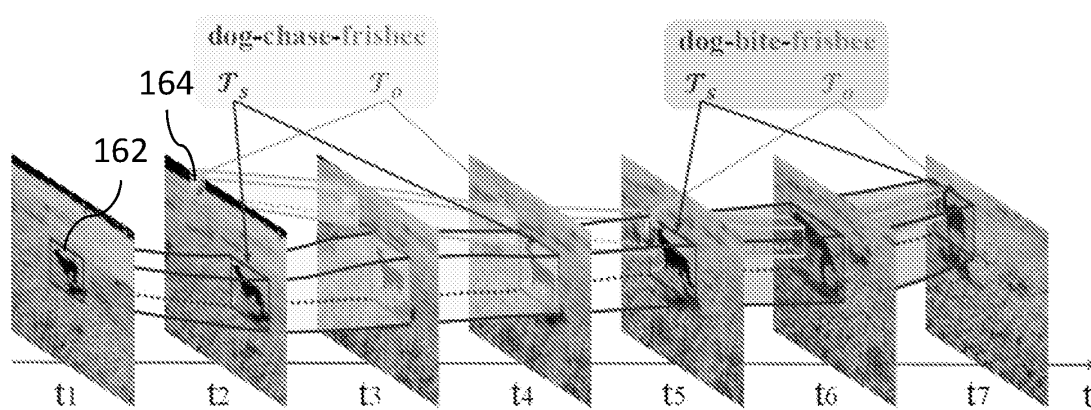


Figure 1c

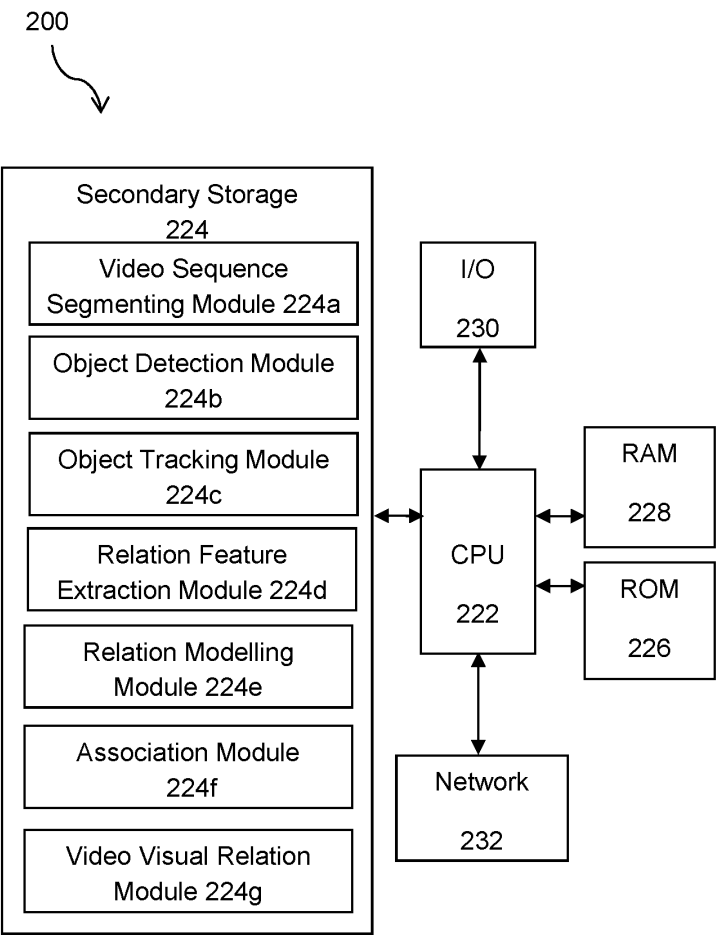


Figure 2

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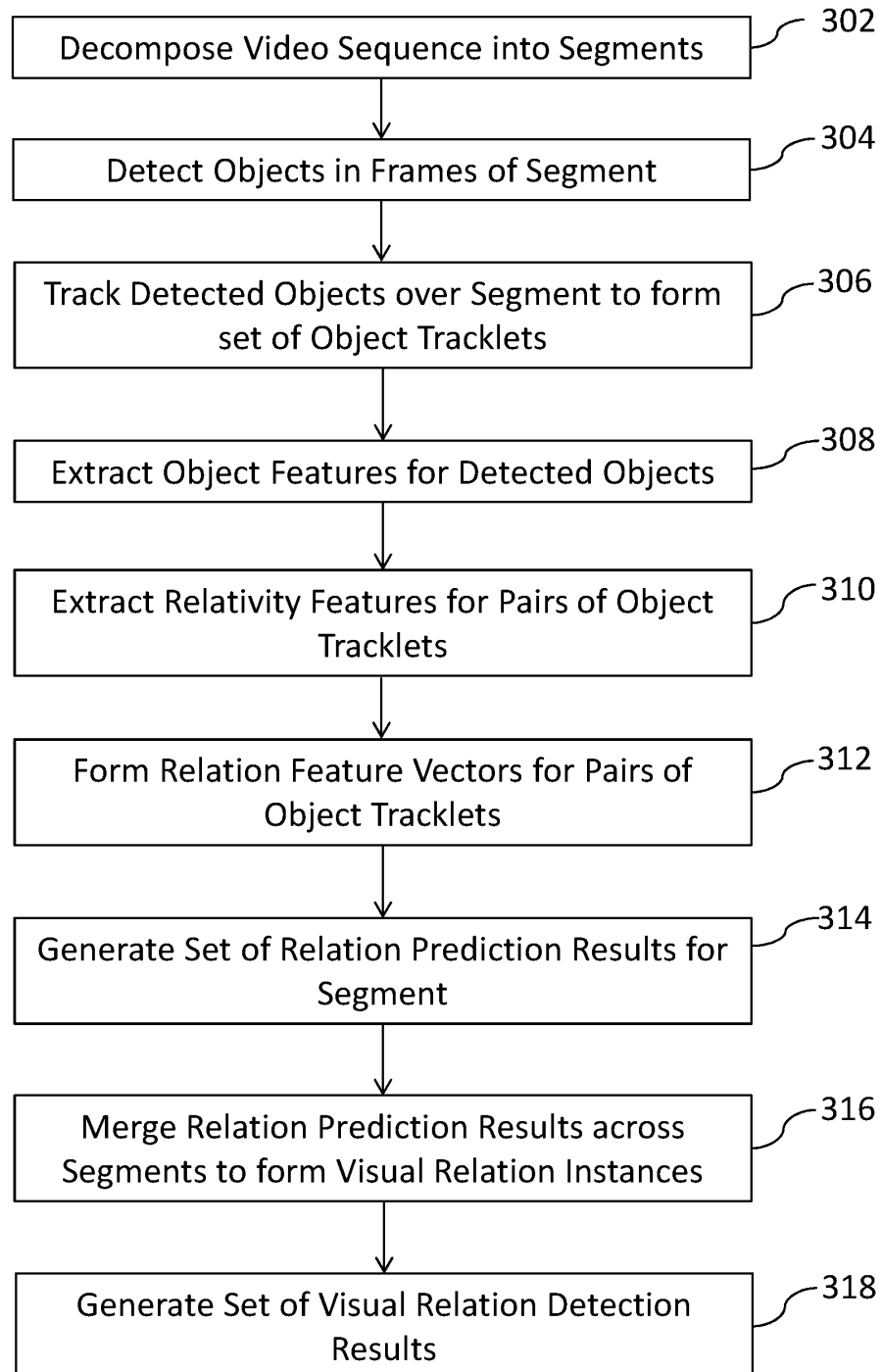
300


Figure 3

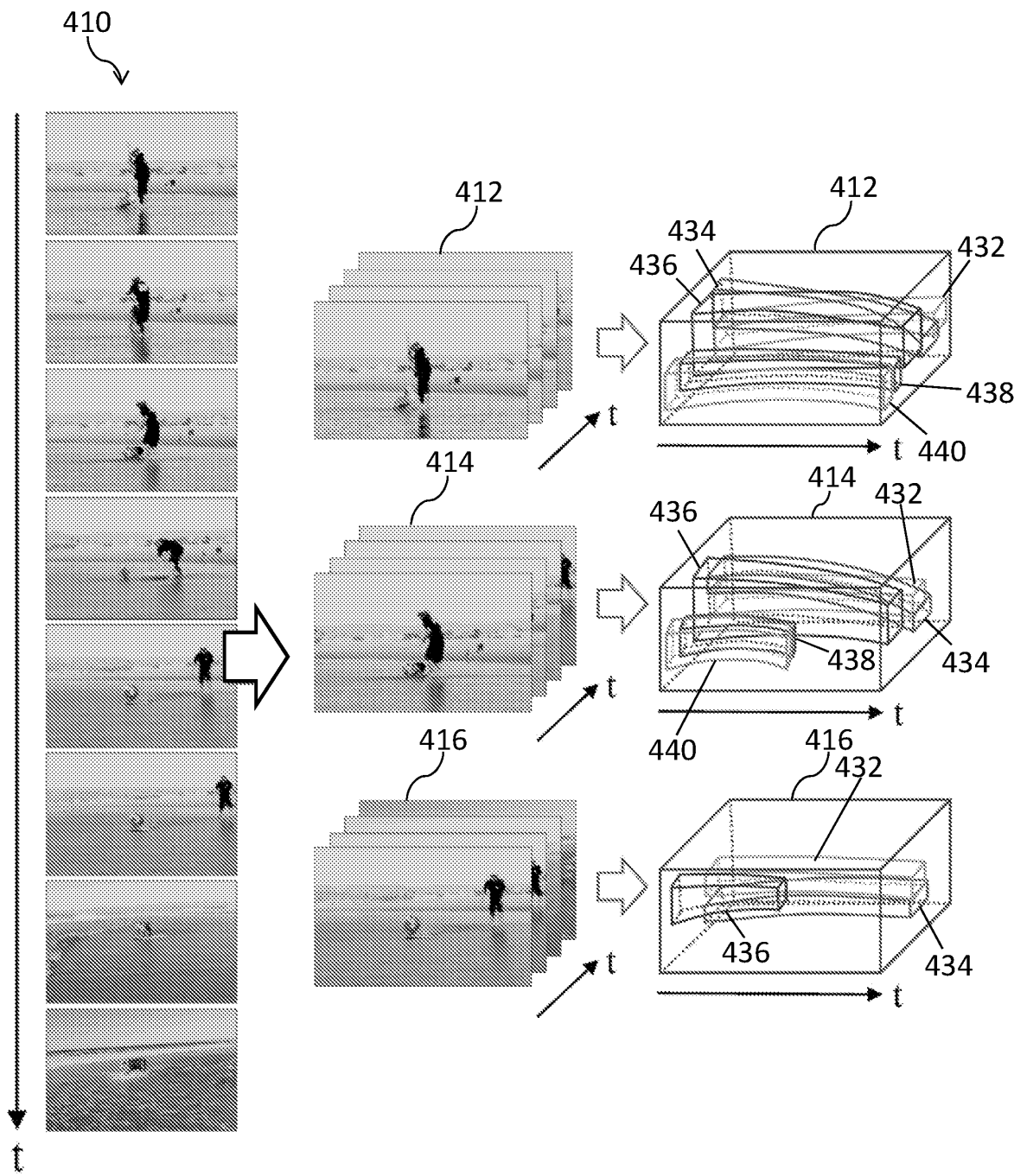


Figure 4a

Figure 4b

Figure 4c

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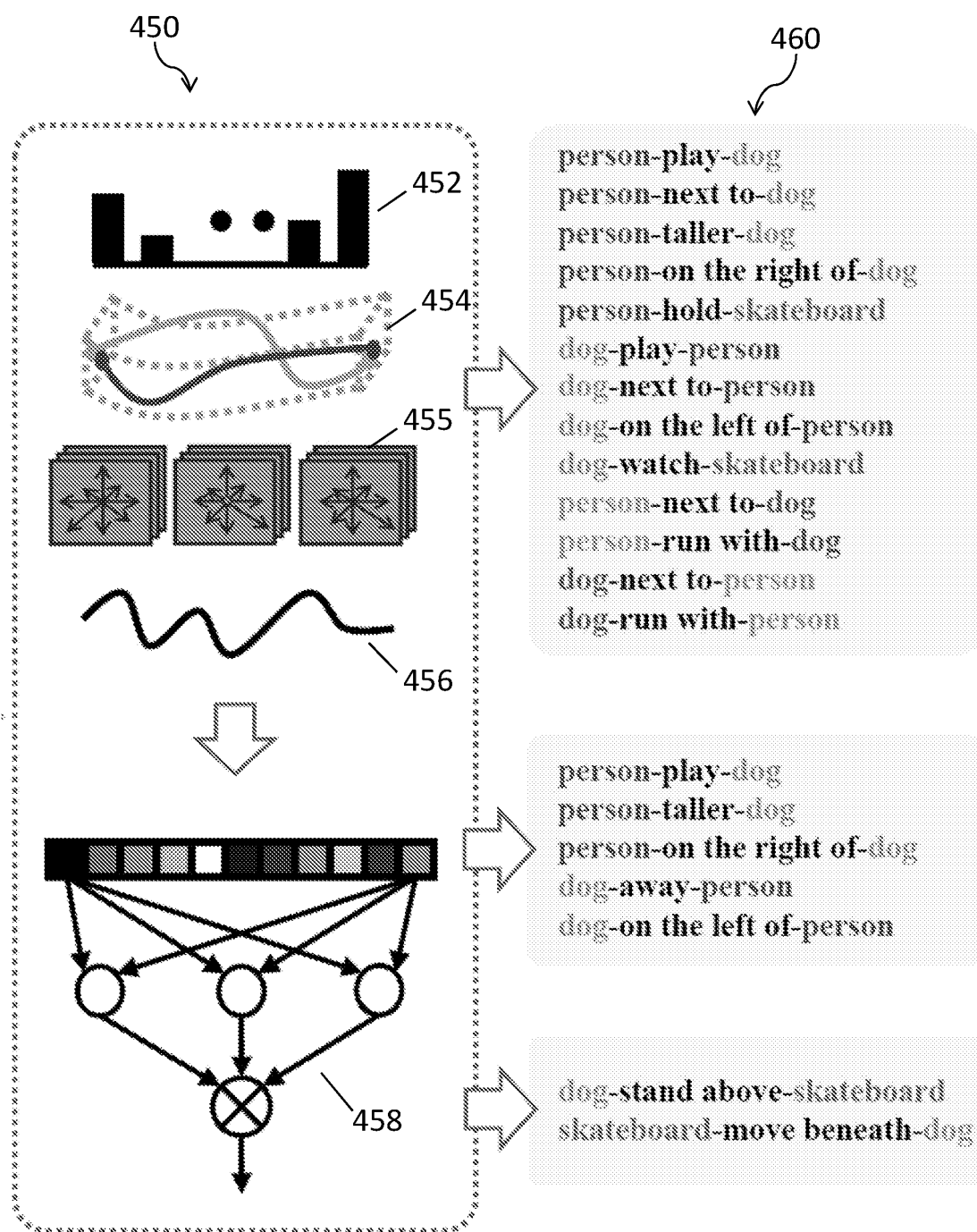


Figure 4d

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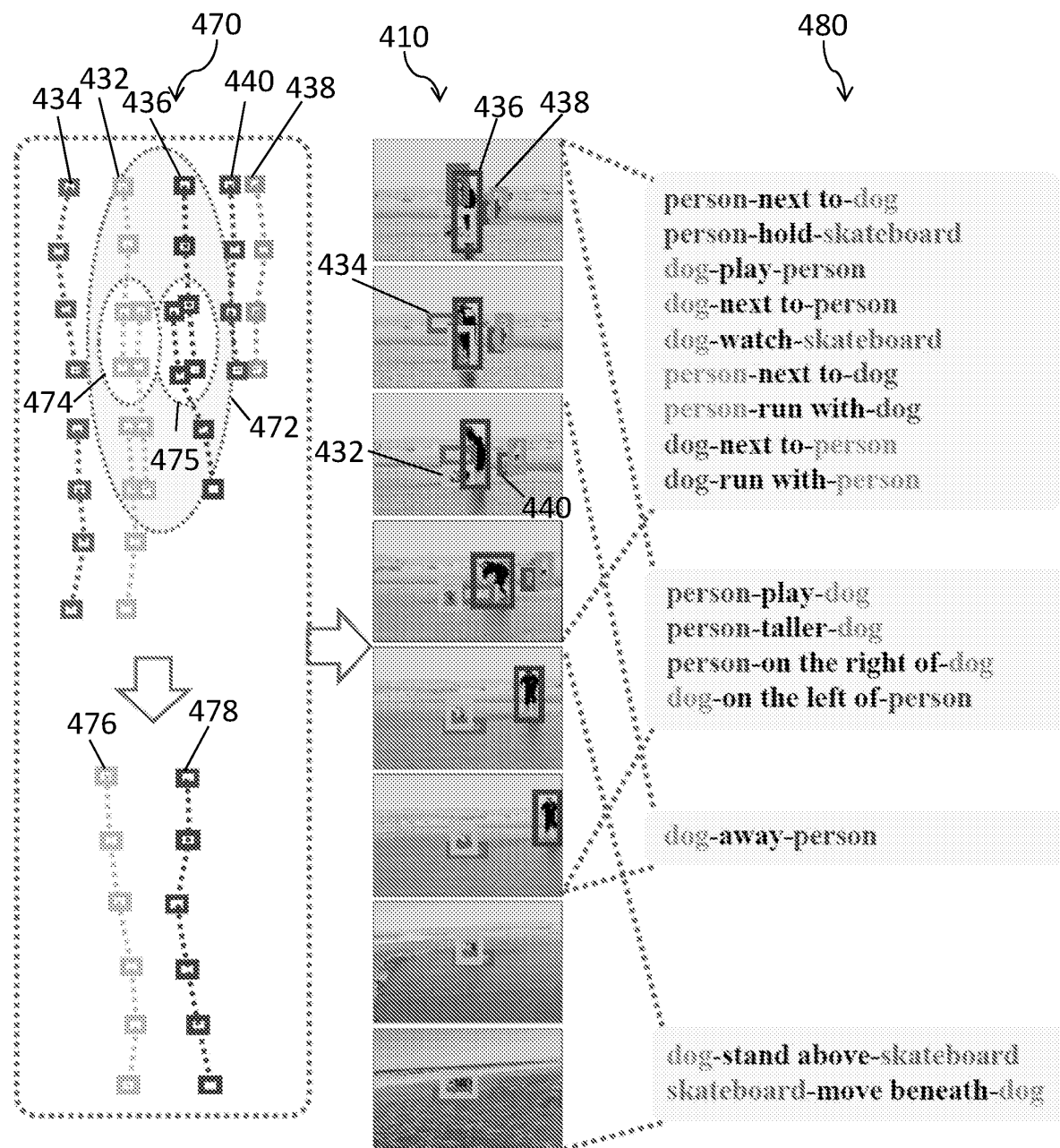


Figure 4e

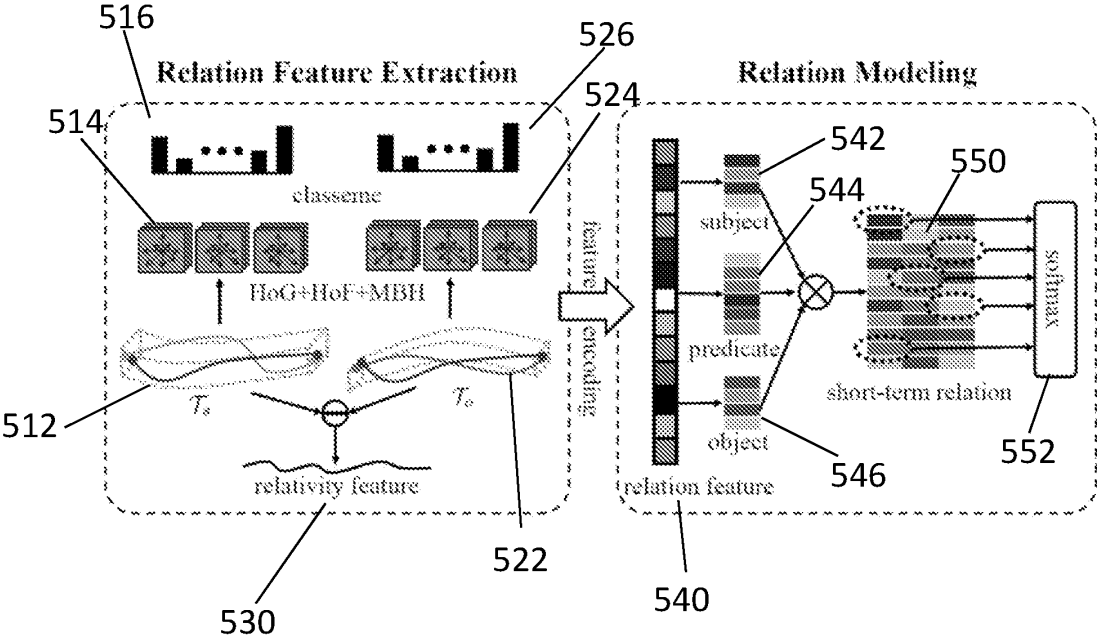


Figure 5

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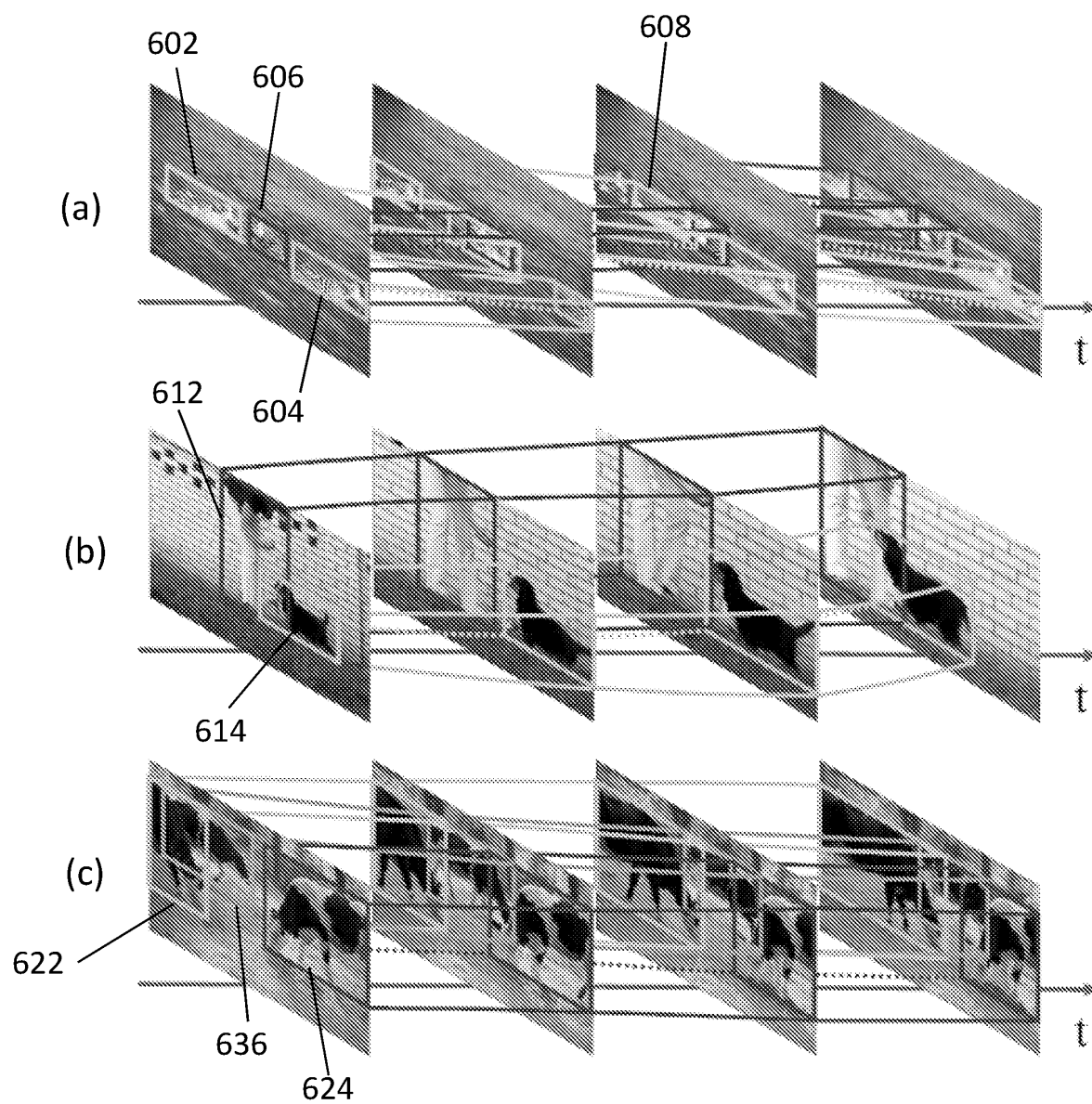


Figure 6

VidVRD

VTransE

Lu's

Lu's-V

VP

(3) zebra-walk front-zebra (11) zebra-stand behind-zebra (17) zebra-walk left-zebra (21) zebra-walk left-zebra (22) zebra-walk right-zebra (26) zebra-follow-zebra (28) zebra-walk right-zebra	(82) zebra-follow-zebra (86) zebra-walk right-zebra	(57) zebra-follow-zebra (69) zebra-walk right-zebra (65) zebra-walk left-zebra (74) zebra-stand behind-zebra (78) zebra-stand left-zebra	(64) zebra-follow-zebra (67) zebra-walk right-zebra (72) zebra-walk left-zebra (97) zebra-stand behind-zebra	(78) zebra-follow-zebra (77) zebra-walk left-zebra (99) zebra-walk right-zebra	(47) zebra-walk left-zebra (86) zebra-follow-zebra (66) zebra-stand right-zebra (63) zebra-stand behind-zebra (69) zebra-walk left-zebra (84) zebra-stand right-zebra
(2) person-fall-dog (6) person-large-dog (7) person-stand left-dog (8) dog-stand right-person (9) person-walk left-dog (11) person-play-dog (13) dog-play-person (33) dog-watch-person	(98) person-stand left-dog	(74) person-feed-dog (95) person-walk left-dog	(75) person-feed-dog (98) person-walk left-dog	(61) person-walk left-dog (72) person-stand left-dog (79) dog-stand right-person	(9) person-walk left-dog (11) person-play-dog (13) dog-play-person (33) dog-watch-person
(1) cattle-stand right-cattle (2) cattle-stand left-cattle (3) cattle-stand front-cattle (4) cattle-walk left-cattle (5) cattle-walk behind-cattle (9) cattle-stand left-cattle	(44) cattle-stand front-cattle (46) cattle-stand left-cattle (48) cattle-stand right-cattle (54) cattle-stand left-cattle (62) cattle-stand right-cattle (66) cattle-stand front-cattle	(24) cattle-walk behind-cattle (25) cattle-walk behind-cattle (28) cattle-walk left-cattle (34) cattle-stand front-cattle (76) cattle-walk left-cattle (84) cattle-walk left-cattle	(21) cattle-stand right-cattle (22) cattle-stand right-cattle (24) cattle-stand left-cattle (29) cattle-stand left-cattle (77) cattle-stand right-cattle	(78) cattle-stand left-cattle (74) cattle-stand left-cattle (79) cattle-stand front-cattle (88) cattle-stand right-cattle	(12) cattle-walk right-cattle (19) cattle-stand front-cattle (21) cattle-walk front-cattle (33) cattle-walk behind-cattle

(a)

(b)

(c)

Figure 7

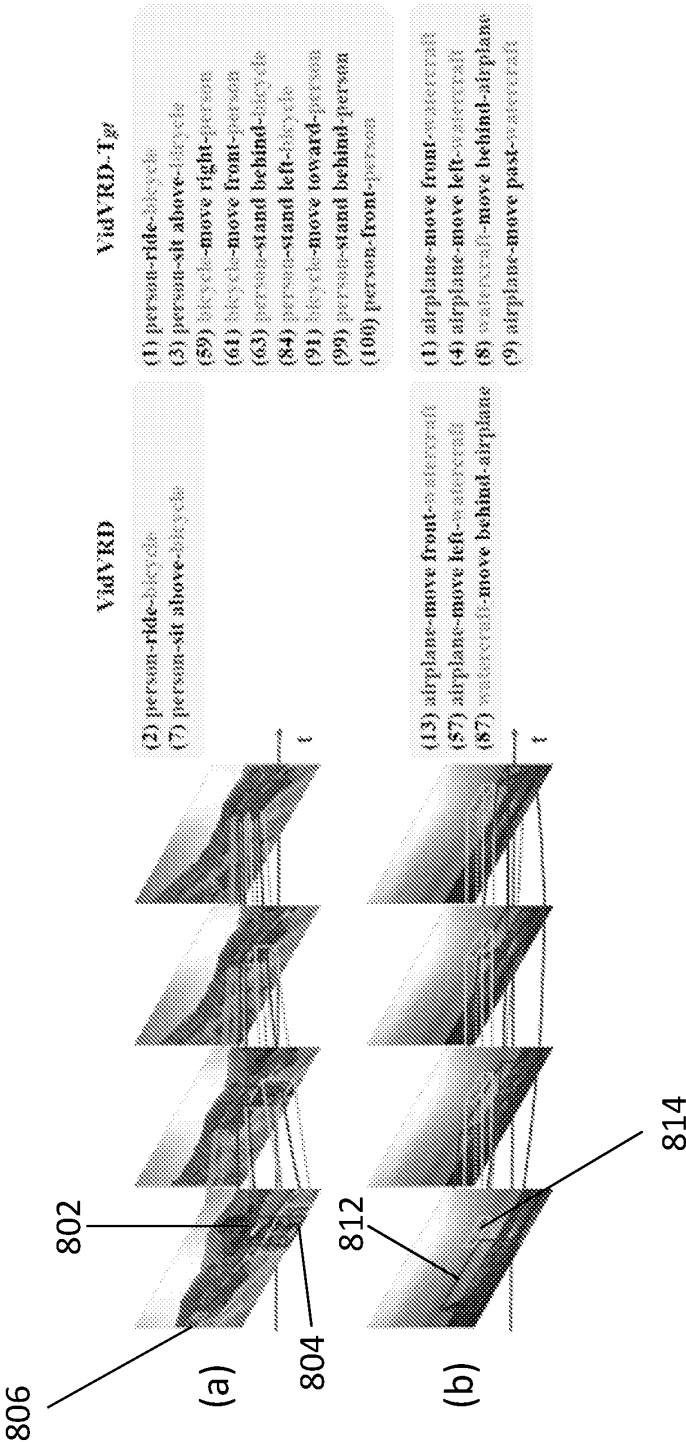


Figure 8

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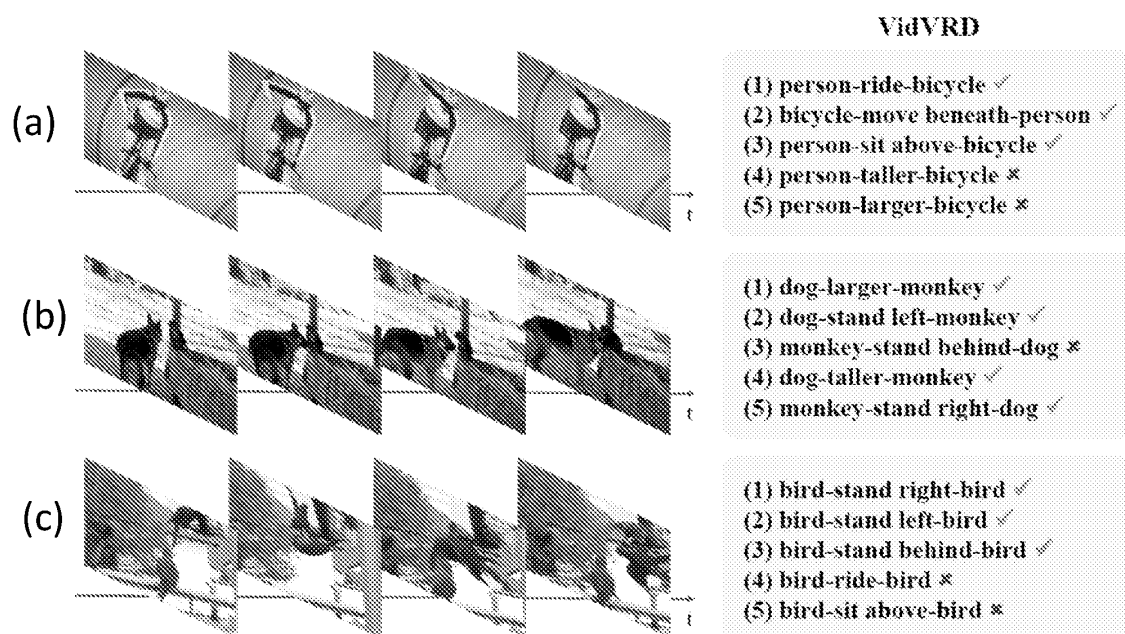


Figure 9