

Decision Task	Complexity
Stroke Rehabilitation Assessment	(25,60,0)[57, 58]
Covid Symptom Checking	(7,3,∞)[92]
Child Welfare Assessment	(3,UNK,0)[23],(5,32,0)[49], (5,UNK,0)[18]
Clinical Text Annotation	(15,UNK,UNK)[61]
Medical Image Retrieval	(14,6,1023)[15]
Medical Diagnosis	(7,4,2)[75],(6,1,0)[7], (6,240,0)[33]
Medicine Recommendation	(21,33,0)[53]
Nutrition Prediction	(5,26,156)[13],(3,24,0)[12], (4,48,24)[35]
Food Division	(17,3,32768)[59], (21,412,0)[60]

(a) Task complexity in medical domain

Decision Task	Complexity
House Price Prediction	(9,15,0)[1],(11,24,12)[79], (12,40,10)[20]
Movie Recommendation	(2,4,0)[52],(28,1,0)[106], (4,15,0)[63],(4,1,∞)[2], (10,4,0)[8], (4,15,0)[62]
Marketing Email Prediction	(3,81,0)[43]
Deceptive Review Prediction	(6,20,0)[55], (4,20,0)[56]
Food Recommendation	(2,51,0)[38], (9,3,0)[71], (21,33,0)[53]
Purchasing Decision	(2,10,0)[28],(5,4,∞)[17]
Travel Planning	(5,UNK,∞)[50]
Hotel Booking	(7,3,0)[22]
Place Recommendation	(12,2,0)[97],(7,3,∞)[9], (51,12,0)[46], (9,UNK,∞)[48]
Music Recommendation	(31,24,0)[45],(4,25,∞)[16], (23,5,7)[68]
Image Recommendation	(7,30,0)[26]
Ultimatum Bargaining	(3,1,0)[29],(3,3,0)[30]
House Searching	(5,2,2)[90]
Energy-Saving Recommendation	(9,20,0)[91]
Usability Test Evaluation	(9,2,0)[31]
Contractor Assignment	(13,3,∞)[93]
Automated Driving	(6,24,0)[100]

(c) Task complexity in business & commercial domain

Decision Task	Complexity
Defence Technique Decision	(8,8,UNK)[89]

(d) Task complexity in defence domain

Decision Task	Complexity
Speed Dating	(24,60,30)[65],(24,80,40)[80, 104]
Social Media Content Moderation	(5,10,∞)[54],(13,5,4)[37], (6,8,0)[101]
Facebook Account Suspension Appealing	(2,10,0)[94]

(g) Task complexity in social domain

Decision Task	Complexity
Loan Approval	(12,33,135)[21],(10,80,40)[39], (132,10,0)[95],(30,2,0)[27], (31,24,0)[45],(50,UNK,∞)[36], (14,40,0)[40]

(i) Task complexity in financial domain

Decision Task	Complexity
Forest Cover Prediction	(11,64,32)[99]
Cooking Video Sorting	(10,9,1890)[74]
Sketch Recognition	(4,6,0)[14],(6,84,42)[107]
Jellybean Counting	(2,10,5)[76]
Reading Time Prediction	(35,4,0)[87]
Tic-Tac-Toe	(6,10,0)[42]
Ball Color Prediction	(3,20,0)[88]
Bill Splitting	(14,50,∞)[83]
DIY Planning Task	(6,10,10)[71]

(b) Task complexity other domain

Decision Task	Complexity
Meeting Request Detection	(3,40,1)[51]
Student Admission Decision	(UNK,8,0)[4], (17,20,32768)[19], (UNK,50,0)[28]
Email Sorting	(3,64,0)[84]
Job Application Approval	(5,24,0)[78]
Software Installation Decision	(7,8,0)[44]
Job Recommendation	(2,1,∞)[2]
Monitoring and Administration	(15,130,390)[77]
Student Score Prediction	(10,4,0)[8]
Scholar Suggestion	(12,30,0)[86]
Master Award Selection	(8,1,0)[98]
Course Recommendation	(27,5,∞)[67]

(e) Task complexity in professional & educational domain

Decision Task	Complexity
Sentiment Analysis	(4,3,0)[85],(6,50,0)[6], (12,UNK,15)[10], (5,56,0)[102]
Question Answering	(6,20,0)[6],(5,160,0)[32]
Facial Expression Recognition	(UNK,8,0)[4],(1,10,0)[11]
Speech Recognition	(UNK,8,0)[4]
Image Classification	(3,12,0)[3],(5,216,0)[103], (12,UNK,15)[10], (4,90,0)[47], (3,40,0)[73], (4,90,0)[72]
Data Labelling	(2,79,0)[24], (5,10,0)[96]
Text Classification	(4,15,0)[81], (6,4,0)[82]

(f) Task complexity in generic domain

Decision Task	Complexity
Glass Quality Control	(3,420,0)[105]
Object Defective Prediction	(6, UNK,UNK)[5]
Drug Delivery in the Supply Chain	(5,20,0)[70], (15,70,0)[69]

(h) Task complexity in industrial domain

Decision Task	Complexity
Recidivism Prediction	(10,64,32)[99],(11,200,50)[41], (8,12,6)[25],(132,10,0)[95], (11,50,0)[66], (14,40,0)[40], (11,80,0)[34]
Bail Prediction	(UNK,8,0)[4],(10,80,40)[39], (UNK,8,0)[64]

(j) Task complexity in legal domain.

Table 1. All tasks' domains. Task complexity is shown as a tuple (component, coordinative, dynamic). UNK is the abbreviation for unknown; ∞ also means that the complexity does not have any upper limit.

A Missing Piece in the Puzzle: Considering the Role of Task Complexity in Human-AI Decision Making

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