CAMBRIDGE

Cambridge University Press
978-1-107-01789-4 - Sentiment Analysis: Mining Opinions, Sentiments, and Emotions
Bingliu
Index
More information

Index

AD-sentiment. *See* agreement disagreement sentiment
affect, 31, 32, 36, 40
affect analysis, 1
agreement, 11, 231, 235, 247
agreement disagreement sentiment, 236
agreement expression, 240
answer acknowledgment, 247
application, 4
appraisal system, 40
appreciation, 40, 41
aspect, 20, 22
aspect category, 26
aspect clustering. *See* aspect grouping
aspect expression, 26
aspect extraction, 26, 91, 137, 215
  attribute of relation, 141, 147
  conditional random field, 151
  dependency relation, 142
  double propagation, 142
  exploiting syntactic relation, 140
  frequency-based approach, 138
  hidden Markov model, 150
  implicit aspect extraction, 153
  opinion and target relation, 141
  part of relation, 139, 141, 147
  resource usage, 145
  supervised learning, 149
  topic modeling, 159
aspect grouping, 26, 157
aspect mention, 26
aspect rating prediction, 62
aspect resolution. *See* aspect grouping
aspect sentiment classification, 91
  advantage and disadvantage, 96
  lexicon-based classification, 93
  supervised learning, 92
aspect sentiment rating prediction, 96
aspect-based opinion summary, 29, 218, 219
aspect-based sentiment analysis, 23, 90, 137
astroturfing, 259
attitude, 2
attribute noun, 155

basic emotion, 33
but, 127
but-clause, 94

cannot-link, 169
capacity, 41
cause of emotion, 38
cognitive gap, 37
C-expression. *See* comment expression
comment analysis, 231
comment expression, 247
comment modeling, 246
comment type, 247
comparative, 203
  adjectival comparative, 203
  adjectival superlative, 203
  adverbial comparative, 203
  adverbial superlative, 203
  metalinguistic comparative, 203
  nominal comparative, 203
  propositional comparative, 203
  superlative, 203
comparative opinion, 19, 40, 202, 205
comparative opinion summary, 225
comparative sentiment word, 207
comparative word, 204

© in this web service Cambridge University Press www.cambridge.org

CAMBRIDGE

Cambridge University Press
978-1-107-01789-4 - Sentiment Analysis: Mining Opinions, Sentiments, and Emotions
Bingliu
Index
More information

comparison
  cross-type, 211
  nonstandard, 209
  single entity comparison, 212
  standard, 209
composition, 41
composition rule, 93
conditional sentence, 80
conjunction, 127
connotation lexicon, 198
constrained topic model, 175
contention expression, 240
contentious issue. *See* contentious topic
contentious topic, 235
context dependent sentiment, 96, 193, 195, 207, 208
context independent sentiment, 193
contextual sentiment, 196
contrastive opinion summarization, 224
contrastive viewpoint, 224
coordinating conjunction, 127
coreference resolution, 133, 134
cross-domain sentiment classification, 63
cross-language sentiment classification, 65, 84
cross-language subjectivity classification, 84
comparative opinion summary, 225

debate analysis, 231
debate modeling, 235
deception, 267
deceptive review. *See* fake review
deceptive review detection. *See* fake review detection
DECREASE term, 106
deliberation, 12, 231, 245
desirable or undesirable action, 104
desirable or undesirable fact, 104, 199
d-feature, 294
diminisher, 21, 60, 112
direct opinion, 39
disagreement, 11, 231, 235, 247
discourse information, 86
discussion analysis, 231
document sentiment classification, 47
  assumption, 48
  cross-domain sentiment classification, 63
  cross-language classification, 65
  custom score function, 56
  feature, 49
  lexicon-based approach, 59
  sentiment shifter, 50
  supervised learning, 49
  syntactic pattern, 57
  syntactic dependency, 50
  unsupervised learning, 57
domain adaptation, 63, 174
domain dependent sentiment, 193, 195
domain focused corpora, 181
domain independent sentiment, 193

EARL, 35
emoticon, 36
emotion, 31, 32, 36, 112
emotion analysis, 1
emotion cause, 38, 188
emotion classification, 67, 87
emotion definition, 38
emotional evaluation, 22
emotion expression, 36
emotional intention, 251
emotional negative, 21
emotional opinion, 40
emotional positive, 21
emotional sentiment, 21
entity, 1, 19
entity category, 25
entity expression, 25
entity extraction, 137, 179, 183
entity focused corpora, 181
entity grouping. *See* entity resolution
entity linking, 180, 184, 185
entity mention, 25
entity resolution, 25, 179, 181
entity with sentiment word, 129
entity-based sentiment analysis, 91
explicit aspect expression, 26, 138
explicit intention, 253

fact-implied opinion, 42
  nonpersonal fact-implied opinion, 42
  personal fact-implied opinion, 42
fake opinion, 13, 259
fake review, 13, 259, 262
fake review detection, 267, 269
  abnormal patterns, 275
  atypical behaviors, 282
  early detection, 301
  evaluation using classification, 299
  exploiting review bursts, 298
  language inconsistency, 300
  multiple-site review comparison, 300
  nature of business, 301
  public data, 267
  reviewer with multiple userids, 291
  site private data, 267
  spotting spammer groups, 285

© in this web service Cambridge University Press www.cambridge.org

CAMBRIDGE

Cambridge University Press
978-1-107-01789-4 - Sentiment Analysis: Mining Opinions, Sentiments, and Emotions
Bingliu
Index
More information

supervised learning, 269
using Bayesian models, 284
using review graphs, 283
fake review features, 265
meta-data about each review, 266
product information, 266
review text content, 265
sales information, 266
web usage and behavior data, 266
fake reviewer, 264
fake reviewer detection, 267
fake reviewer group detection, 267
fake reviews and lies, 267
feature, 20
feature-based opinion mining. *See* aspect-based sentiment analysis
feature-based opinion summary. *See* aspect-based opinion summary
feature-based sentiment analysis. *See* aspect-based sentiment analysis
feeling, 32
fine-grained mining of intention, 256
for and against, 232
forum discussion, 17
fraudulent review detection. *See* fake review detection
function name with sentiment word, 130

generalized Pólya urn, 170
good wishes, 130
gradable comparison, 203
equative comparison, 203
nonequal gradable comparison, 203
superlative comparison, 203
greeting, 130, 147
group spam features, 288
group spamming, 285

harmful fake review, 263
HUMAINE, 35

implicit aspect mapping, 153
implicit aspect expression, 26
implicit aspect mapping, 153
corpus-based approach, 154
dictionary-based approach, 154
implicit intention, 253
INCREASE term, 106
indirect opinion, 39
individual spam feature, 290
inference rules for sentiment, 193
intensifier, 21, 36, 60, 112
intention, 12, 131, 250, 251
intention and sentiment, 250
intention classification, 253, 254
intention mining, 250, 253
interactive exchange, 231
interrogative sentence, 81

judgment, 40

knowledge-based topic modeling, 169

latent Dirichlet allocation, 159
LDA, 160
learning in a similarity space, 292
lengthening of word, 36
lexicon adaptation, 197
lexicon-based classification, 78, 93, 207
liar, 268
lie, 267
lifelong learning, 171, 174
lifelong topic modeling, 171
lexicon adaptation, 197

meta-opinion, 44
metaphor and sentiment, 199
mixed sentiment, 77
modality and sentiment, 123
can and could, 125
deontic modality, 123
dynamic modality, 124
epidemic modality, 124
have to, had better, and better, 127
need and must, 126
shall and should, 126
want, wish, hope and like, 127
will and would, 125
model of entity, 27
model of opinion document, 27
mood, 31, 32, 36
must-link, 169

named entity recognition, 179
nature of interaction, 235
negation, 116
comparative sentence, 117
double negation, 118
imperative sentence, 119
negation word, 116
negation words in idioms, 119
never, 119
scope, 122
transferred negations, 122
negative potential item, 101
neutral, 21
neutral expression, 2
nongradable comparison, 204

© in this web service Cambridge University Press www.cambridge.org

CAMBRIDGE

Cambridge University Press
978-1-107-01789-4 - Sentiment Analysis: Mining Opinions, Sentiments, and Emotions
Bingliu
Index
More information

non-opinion context, 129
nonreview, 262
normality, 41
not-opinionated sentence, 71

object, 20
objective, 2, 72
objective of sentiment analysis, 25
objective sentence, 11, 72, 73
open domain corpora, 181
opinion, 2, 17
opinion aggregation, 94
opinion analysis, 1
opinion context, 195, 196
opinion definition, 18, 22
opinion extraction, 1
opinion holder, 18
opinion holder extraction, 186
opinion lexicon. *See* sentiment lexicon
opinion mining, 1
opinion orientation, 18
Opinion Parser, 6, 7, 106, 112, 131, 133
opinion retrieval, 226, 227
opinion search, 226
opinion source, 18
opinion spam detection, 260. *See* fake review detection
opinion spammers, 13
opinion spamming, 13, 259
opinion summary, 29, 218
opinion reason, 188
opinion target, 99, 215. *See* sentiment target
opinion target extraction, 137
opinion word. *See* sentiment word
opinionated sentence, 71
opinion and target relation, 195
orientation, 11

paralinguistic, 36
part and attribute, 22
personal opinion
  first person opinion, 44
  non-first person opinion, 44
plant, 259
points of contention, 242
polarity, 11
polarity of agreement, 236
polarity of disagreement, 236
positive potential item, 101
preferred entity set, 207
preprocessing, 136
presuppositional word, 121
probabilistic latent semantic analysis, 159
propriety, 41
psychological reality, 37

qualifier of opinion, 24
quantitative analysis, 220
question and answer, 247

rational evaluation, 22
rational intention, 252
rational negative, 21
rational opinion, 20, 37, 40
rational positive, 21
rational sentiment, 20
reaction, 41
reason of opinion, 24
regular opinion, 19, 39
reply relationship, 233
reply-to relation, 240
review, 17
review about brand only, 262
review burst, 298
review graph, 284
review helpfulness. *See* review quality
review mining, 1
review quality, 303
review recommendation, 306
review utility. *See* review quality
rule specification, 131
  context, opinion, 132
  default and exception scheme, 131
  regular expression, 131
  sentiment composition, 132
rules of opinion, 98

sarcasm, 37
sarcastic sentence, 82
semantic analysis, 14
semantic orientation, 21
semi-supervised topic modeling, 169
senses of sentiment words, 112
sentence emotion classification, 87
sentence sentiment classification, 76
  assumption, 77
  conditional sentence, 80
  cross-language classification, 84
  definition, 70
  lexicon-based classification, 78
  supervised learning, 78
  using discourse information, 86
sentence subjectivity, 72
sentence sentiment classification, 70
sentiment, 1, 2, 18
sentiment analysis, 1, 4
sentiment analysis tasks, 27

© in this web service Cambridge University Press www.cambridge.org

CAMBRIDGE

Cambridge University Press
978-1-107-01789-4 - Sentiment Analysis: Mining Opinions, Sentiments, and Emotions
Bingliu
Index
More information

sentiment classification
  aspect sentiment classification, 91
  document sentiment classification, 47
  sentence sentiment classification, 76
sentiment composition rule, 98, 99, 114
sentiment consistency, 194, 195
sentiment context, 195
sentiment definition, 20
sentiment intensity, 21, 112
sentiment lexicon, 59, 189
  some existing lexicons, 200
sentiment lexicon generation
  corpus-based approach, 193
  dictionary-based approach, 190
sentiment mining, 1
sentiment of desire, 252
sentiment orientation, 21
sentiment polarity, 21
sentiment profile, 4
sentiment rating, 21
sentiment rating prediction, 59
sentiment reversal, 115
sentiment shifter, 59, 94, 116
sentiment target, 19, 90
sentiment type, 20
sentiment word, 6, 10, 93
  base type, 189
  comparative type, 189
s-feature, 294
shill, 259
shilling, 259
singleton reviewer, 300
sock puppet, 265
spamicity, 284
spammer features, 265
spammer, group, 265
spammer, types, 263
spammer, individual, 265
stance classification, 232, 234
standpoint
  author, 45
  reader, 45
stooge, 259
structured summary, 219
subjective, 2, 72
subjective opinion, 40
subjective sentence, 72
subjectivity, 16, 72, 198
subjectivity classification, 71, 73
subordinating conjunction, 127
superlative word, 204

target, 18
tasks of sentiment analysis, 25
tenacity, 41
time extraction, 186
time of opinion, 18
tolerance, 245
tolerant and intolerant, 236
topic modeling for sentiment analysis, 163
topic modeling with phrases, 174
topic models for sentiment analysis, 160
  joint models, 164
  knowledge-based models, 168
  lifelong topic models, 171
  topic modeling with phrases, 174
  topic models with constraints, 175
  unsupervised models, 163
topical term, 159
topical word, 160
transfer learning, 63, 174
topic-based sentiment analysis, 91
tweet, 17

uncertainty, 131
unstructured data, 14

valence, 21
valence shifter, 59, 116
valuation, 42
veracity, 41

web usage abnormality, 301
word sense, 198
word sense disambiguation, 113, 133

Yelp data experiment, 272

© in this web service Cambridge University Press www.cambridge.org