Alignment Technique single document summarization, 26 Artificial Intelligence, 17 Automatic Speech Recognizer, 4, 24, 33, 34 acoustic feature, 34	Bayesian Model crosslingual summarization, 33 query-focused summarization, 29 single document summarization, 26
discourse feature, 34 JANUS, 125, 127, 136 lexical feature, 34 listener feedback, 34 non-textual input, 4, 48 prosodic feature, 34 read text, 34 speaker activity, 34	Centroid-based Approach crosslingual summarization, 33 headline generation, 27 multi-document summarization, 28 Clustering, 31 crosslingual summarization, 30, 32 multi-document summarization, 28, 29 multilingual summarization, 31, 32
spontaneous speech, 34 textual output, 24, 48 transcript, 34 ViaVoice, 127 Word Error Rate, 125, 127	Coherence, 20, 91 Cohesion, 19, 20, 26, 81, 83 document feature, 74 lexical chain, 68 speech summarization, 34
Automatic Summarization, 2, 11, 15 definition, 2 evaluation, 6 input aspect, 2 input aspects, 48	Collocation annotation, 59 Conditional Random Fields speech summarization, 34 Content Feature
lexical chain, 69 output aspect, 5 output aspects, 48	cue term, 27 length, 27 position, 27
purpose aspect, 4 purpose aspects, 48 query-focused, 64, 65 task, 24–26, 28–30, 33, 35–37	Coreference, 20 CLASSY, 28 inter-document, 28 resolution, 59
use, 5 AutoSummENG, 39 Basic Element, 4, 44	Coreference Chain, 20, 69 single document summarization, 26 Corpus British National, 7
, ,	,

CAST project, 7	meaning representation relation, 21
Reuters, 7	proximity, 19
Crosslingual Summarization, 23–25, 30–32, 35	similarity, 19
DUC, 32	EuroWordNet, 63
Cue Term, 19, 22	Evaluation, 6
crosslingual summarization, 32	gold standard, 38
headline generation, 27	automatic, 38
LAKHAS, 32	AutoSummENG toolkit, 39
	DUC, 23
Decision Tree	extrinsic, 6
headline generation, 27	framework, 12
single document summarization, 26	gold standard, 100
Discourse Level Approach, 21, 22	human, 38
document format, 21	intrinsic, 6, 7, 12, 100
rethorical structure, 22	linguistic quality aspect, 30
thread of topics, 21	metric combination, 7
Discourse Marker, 22	multi-document summarization, 38
annotation, 59, 62, 63	NUGGETEER, 45
lexicon, 63, 89	POURPRE, 45
Discourse Representation, 22	precision metric, 7
Discourse Segment, 63	pyramid method, 3, 40
Discursive Structure	QARLA framework, 7, 39
Coherence, 21	recall metric, 7
Cohesion, 21	reference summary, 8
Document structure, 3, 48	relative utility, 39
chapter, 3	responsiveness score, 30
header, 3	ROUGE metric, 7
list, 3	ROUGE package, 7, 38
section, 3	SEE, 38
table, 3	single document summarization, 38
DUC	summary, 7
crosslingual summarization, 32	weight n-gram content, 39
evaluation forum, 23	Evaluation Forum
headline generation, 26	CLEF, 76
linguistic quality aspect, 30	DUC, 7, 17, 22–26, 29, 30, 35, 36
manual evaluation, 38	GALE, $45$
multi-document summarization, 28	MSE, 17, 32, 35, 36, 44
query-focused summarization, 29	NTCIR, 6, 17
responsiveness score, 30 ROUGE evaluation package, 38	SUMMAC, 6, 17
	TREC, 45, 76
ROUGE metric, 39	Evaluation Metric, 35
task, 22–24	co-selection, 35
Entity Level Approach, 19	content-based, 35
cohesion, 19	discursive, 38
logical relation, 20	DUC, 38

grammatical, 38	NERC, 63
informational coverage, 38	POS tagging, 63
length requirement, 38	shallow parsing, 63
responsiveness, 38	tokenization, 63
Evaluator Agreement	
Kappa measure, 7	Graph-based Algorithm
Evaluator Disagreement, 17	crosslingual summarization, 33
Event-focused Summarization, 23	MEAD, 28
DUC, 23	multi-document summarization, 28 PageRank, 29, 33
FEMsum, 47	query-focused summarization, 29
algorithm	semantic, 81, 83
Antiredundancy SC, 91	single document summarization, 26
Chunk Extractor SC, 90	
Reordering SC, 92	Headline Generation, 6, 11, 26, 27, 35
Sentence Compression, 87	DUC, 23
approaches, 54	Hidden Markov Model
LCsum, 55, 56, 59, 68	CLASSY, 28
LEXsum, 56, 59, 68, 76, 77, 87	crosslingual summarization, 33
MLsum, 56, 59, 68	headline generation, 27
QAsum, 56, 64, 68, 76, 82, 87, 91	multi-document summarization, 28
SEMsum, 56, 64, 68, 76, 77, 84, 87, 92	single document summarization, 26
components, 50, 51, 54	speech summarization, 34
Catalan LP, 62	Human Abstract, 15
Complex SC, 87	Inductive Logic Programing
English LP, 63	single document summarization, 26
Feature Extractor RID, 72	Information Extraction, 22, 28
Generating QP, 65	multi-document summarization, 28
Lexical Chain CE, 80	single document summarization, 26
Lexical Chain RID, 68	Information Retrieval, 5, 20, 30, 76
Machine Learning CE, 80	JIRS PR, 77
Question & Answering CE, 82	lexical chain, 68
Semantic CE, 83	TALP-QA Passage Retrieval, 76
Spanish LP, 62	Input
Splitting QP, 65	automatically translated, 24
instantiated component	creation scenario, 1, 17, 48
Decision Trees CE, 80	domain, 1, 3, 4, 17, 25, 34, 48
Passage Retrieval RID, 76	genre, 3, 4, 25, 48
qMDS Feature Extractor RID, 74	ill-formed text, 4, 24, 30–36
SDS Feature Extractor, 73	language, 3, 4, 24, 30–32, 35, 37, 48
Support Vector Machine CE, 81	media, 1, 4, 24, 48
FreeLing, 63	multi-document, 4
dependency parsing, 63	restricted domain, 3
lemmatization, 63	single document, 4
morphological analysis, 63	specialization level, 3

speech, 33, 34	Maximal Marginal Relevance, 34
	multi-document summarization, 28
Just-the-news Summarization, 24, 166	overcoming redundancy, 28
T. I. D. H.	single document summarization, 26
Keyphrase Extraction	MEAD evaluation toolkit, 35
multi-document summarization, 29	MEAD project, 38
Latent Semantic Analysis, 34	Meaning Relation, 21
query-focused summarization, 30	predicate-argument, 21
single document summarization, 26	Monolingual Summarization, 30
Lemmatization, 63	Morphological Analysis, 63
•	Multi-Document Summarization, 22–26, 28–30, 32
Length	35, 37, 48, 72
headline generation, 27	crosslingual, 30, 31
Lexical Chain, 20	DUC, 23
representation, 68	feature extractor, 74
single document summarization, 26	machine learning, 68
Word Sense Disambiguation, 69	Passage Retrieval, 76, 77
Lexical Similarity, 19, 20	query-focused, 29, 64
crosslingual summarization, 30	vs. single document summarization, 28
distributional, 19	Multilingual Summarization, 22, 30, 31, 35
lexical chain, 20	machine translation, 31
orthographic, 19	MSE evaluation forum, 32, 44
thesaural relationship, 20	
Local Salience, 20	Multimedia Summarization, 4, 22
Logical Relation, 20	Mutual Reinforcement Learning
textual entailment, 21	multi-document summarization, 29
Logistic Regression	Nama Entite
single document summarization, 26	Name Entity  Exaction NEDC 62
	Freeling NERC, 63
Machine Learning, 18, 80	Named Entity, 19, 32
crosslingual summarization, 33	ABIONET NERC, 63
decision tree, 80	Natural Language Generation, 6
feature extractor, 72	Natural Language Processing, 3, 6, 15, 27
headline generation, 27	applications
Mapping-Convergence algorithm, 82	Machine Translation, 102
multi-document summarization, 29, 68	techniques
multilingual summarization, 30	similarity, 73, 74
query-focused summarization, 29	NIST Agencie, 7
single document summarization, 26, 68	assessor, 23
speech summarization, 33	DUC, 23
support vector machine, 81, 82	Noisy Channel Model
training corpus, 81, 162	headline generation, 27
Machine Translation, 5, 24, 26, 30, 31, 35	Noun Phrase, 27
crosslingual summarization, 30–32	headline generation, 27
LAKHAS, 32	Nugget
multilingual summarization, 31	question & answering, 40

Optical Character Recognizer, 4, 24	summary content extractor, 82
non-textual input, 4	TALP-QA, 76, 82
textual output, 24	
Optimum Position Policy, 18	Random Indexing
Oracle Score	single document summarization, 26
crosslingual summarization, 33	Responsiveness
query-focused summarization, 29	query-focused summarization, 30
	Rethorical parsing, 22
Passage Retrieval, 76	Rethorical Relation, 22
lexical chain, 69	Rethorical Structure, 22
POS tagger, 63	rhetorical argumentative compressor, 89
Position, 18, 22	single document summarization, 26
crosslingual summarization, 32, 33	Rethorical Structure Theory, 22
headline generation, 27	ROUGE
LAKHAS, 32	metric, 38, 39
lexical chain, 80	multilingual summarization, 44
multi-document summarization, 28	parametizable, 38
Proximity, 19	ROUGE-L, 38
Pyramid Method, 40	ROUGE-n, 38
annotation, 40	ROUGE-Sn, 38
content selection, 41	ROUGE-SUn, 38
gold standard, 40	ROUGE-W, 38
informativeness score, 41	scoring function, 29
interannotator reliability, 40	spontaneous speech summarization, 45
linguistic quality, 41	
metric, 40	Segmentation
modified pyramid score, 41	discourse boundary, 3
GISTexter, 30	ortographic, 3
multi-document summarization, 41	syntactic, 3
original pyramid score, 41	topic, 3
pyramid model, 40	Segmenting Technique
summary content unit, 40	exical chain, 68
training corpus, 81	Semantic Relations
	query-focused summarization, 30
QARLA	Semantic Role Labeling, 59
DUC, 39	Semantic Tagging
JACK, 39	euroWordNet, 59
KING, 39	WordNet, $59$
QUEEN, 39	Sentence Reduction
Query-focused Summarization, 23	CLASSY, 28
DUC, 23, 24	discourse boundary, 89
real-world complex question, 24	full parsing compressor, 87, 89
Question & Answering, 5, 24, 30	headline generation, 27
lexical chain, 69	parse tree, 27
QAsum, 56	single document summarization, 26
query-focused summarization, 30	Similarity, 19

centroid-based, 28	speech summarization, 34
crosslingual summarization, 30, 33	Summarization
document feature, 73	abstract production, 15, 24, 25
FEMsum, 58	crosslingual summarization, 36
graph representation, 20	embedded, 5
JIRS PR, 77	extract production, 24, 31
lexical, 19	generic, 81
lexical chain, 68	headline generation, 17, 36
lexico-semantic, 84	monolingual, 24
maximal marginal relevance, 26	multi-document, 17, 24, 35–37
multilingual summarization, 32	multilingual, 17, 24, 31, 32, 37
multilingual unit, 31	multimedia, 17, 24
Named Entity, 91	query-focused, 29, 36, 64, 65, 72, 74, 76, 77,
semantic, 19, 22, 81, 83	146, 147, 150, 155, 160, 161, 165, 166
sentence feature, 75	single document, 24, 35–37
vectorial distribution, 19	speech, 33, 34
Single Document Summarization, 17, 23–26, 35, 37,	spontaneous speech, 45
48	textual, 24
crosslingual, 30	Summarization phase, 15, 50, 51
DUC, 23	analyzing, 16, 51
feature extractor, 72	clarifying, 16, 51
machine learning, 68	extracting, 15, 31, 51
query-focused, 29	identifying relevant information, 15, 16, 33, 51
Singular Value Decomposition, 39	interpreting, 16, 31, 51
Smart Room, 123, 174	organizing, 15, 16, 51, 92
Speech Summarization, 25, 33, 34, 55	overcoming incoherence, 6, 15, 51
broadcast news, 29, 34	overcoming redundancy, 6, 15, 28, 51, 56, 81,
corporate meeting, 34	83, 85, 86, 91
lecture, 34	post-editing, 15, 51
lexical chain, 72, 91	reducing, 15, 16, 27, 51
NERC, 63	relevance ranking, 16, 29, 51
political speech, 34	selecting, 15, 16, 29, 33, 51
scientific presentation, 34	stylizing, 16, 51
voice mail, 34	synthesizing, 15, 16, 51
Spontaneous Speech	topic identifying, 16, 31, 51
evaluation, 45	transforming, 16, 51
Statistical Model, 27	understanding, 16, 28, 51
bayesian, 26, 27, 29	Summarizer
crosslingual summarization, 33	CENTRIFUSER, 19
headline generation, 27	English, 37
hidden markov model, 26	medical domain, 37
logistic regression, 26	multi-document, 37
multi-document summarization, 28	on-line, 37
multilingual summarization, 30	CLASSY, 36
single document summarization, 26	crosslingual, 33, 36

multi-document, 28, 36	crosslingual, 33
query-focused, 36	headline generation, 27
Copernic	multi-document, 28
download, 37	MEAD CLAIR
multilingual, 37	multi-document, 37
single document, 37	multilingual, 37
DEMS, 3	NewsInEssence, 37
DEMS-MG, 36	on-line, 37
crosslingual, 36	MEAD Umichigan, 36
headline generation, 36	crosslingual, 36
multi-document, 36	headline generation, 36
query-focused, 36	multi-document, 36
DMSumm	query-focused, 36
download, 37	MS-Word Autosummarize
multilingual, 37	single document, 37
single document, 37	MULTIGEN, 3
Extractor	multitask, 35
multilingual, 37	NeATS ISI, 36
on-line, 37	headline generation, 36
single document, 37	multi-document, 36
GISTexter, 36	query-focused, 36
crosslingual, 36	Newsblaster
English, 37	multi-document, 37
headline generation, 36	multilingual, 31, 37
multi-document, 36, 37	NTT, 19
query-focused, 30, 36	Pertinence
single document, 37	multilingual, 37
GistSumm	on-line, 37
download, 37	single document, 37
multilingual, 37	restricted domain, 24
single document, 37	Sinope
GLEANS, 36	download, 37
crosslingual, 36	multilingual, 37
headline generation, 36	single document, 37
multi-document, 36	Summ-It
query-focused, 36	on-line, 37
Inxight Summarizer	SUMMAC, 20
multilingual, 37	SUMMARIST, 18, 21
single document, 37	English, 31
Island InText	Japanese, 31
English, 37	multilingual, 31
single document, 37	Spanish, 31
LAKHAS	SumUM, 25, 36
crosslingual, 32	crosslingual, 36
MEAD, 21	multi-document, 36

query-focused, 36	crosslingual summarization, 33
SweSum	multi-document summarization, 29
multilingual, 37	Surface Level Approach, 18, 19
on-line, 37	bias, 18
single document, 37	cue term, 19
TOPIARY	location, 18
headline generation, 27	term frequency, 18
Summary	Syntactic Analysis, 19, 59
abstract, 5	Collin's parser, 64
agregative, 5	dependency parsing, 63, 64
automatic evaluation, 7, 8	document feature, 74
background, 5, 50	full parsing compressor, 89
biographies, 3	headline generation, 27
briefing, 5	MINIPAR, 64
content, 2, 50	query-focused summarization, 30
critical, 5	sentence reduction, 87
definition, 1	shallow parsing, 63
event-focused content, 23	sint representation, 59, 61, 62, 66, 76, 82
extract, 5	summary composer, 56
format, 5, 50	• •
generic content, 5, 24, 35, 36	Term Frequency, 18, 22, 39
headline, 1	crosslingual summarization, 32
highlighting, 6	headline generation, 27
indicative, 5	LAKHAS, 32
informative, 5	lexical chain, 72
just-the-news, 5, 50, 166	query-focused summarization, 29
length, 2, 3, 6, 23, 50	spontaneous speech, 48
manual evaluation, 7, 8, 12	TFIDF feature, 75
media, 2	Term frequency
query-focused content, 5, 23–25, 29, 35, 36	document feature, 75
sublanguage, 3	Term Frequency Inverse Document Frequency, 39
surrogate, 6	Text Summarization, 17, 26
very short, 6	subprobems, 16
viewpoint-focused content, 23	Textual Entailment, 21
Summary Content Unit, 3, 40, 81	GISTexter, 30
contributor, 41	multi-document summarization, 30
Summary Evaluation Environment, 38	query-focused summarization, 30
Summary Example	Textual Unit, 3, 32, 33
book synopsis, 1	Basic Element, 44
film synopsis, 1	basic element, 4
meeting minute, 1	clause, 3, 6, 33, 87
stock market bulletin, 1	discourse boundary, 63, 90
student outline, 1	discourse segment, 63
weather forecast, 1	elementary discourse unit, 39
Support Vector Machine, 81	factoid, 40, 45

meaning unit, 3	Tree Similarity, 30
multilingual unit, 31	Trigger Word, 27
multiparagraph, 6	
nugget, 40, 45	Unigram Language Model
paragraph, 3, 6, 100	headline generation, 27
phrase, 6	Unsupervised Topic Discovery
phrase chunk, 33, 64, 87, 90	headline generation, 27
segmenting technique, 59	User Need
segmenting techniques, 52	generic content, 36
semantic dialogue unit, 33	natural language query, 29, 30, 35
sentence, 3, 32, 33, 62, 65, 66, 73, 75, 77, 78,	query-focused content, 36
81, 87, 91, 92	
summary content unit, 3, 40, 45	Vector Space Model
topic passage, 6	query-focused summarization, 30
utterance, 34	Viewpoint-focused Summarization, 23
Tokenization, 63	DUC, 23
Topic Identification, 21	
headline generation, 27	Weighted Bipartite Graph
lexical chain, 68	multi-document summarization, 29
MEAD, 21	Word Sense Disambiguation, 85
single document summarization, 26	euroWordNet, 63
SUMMARIST, 21	lexical chain, 68, 72
topic signature, 21	World Wide Web
Translation	resource, 28, 178
source to summary language, 27	searcher, 24, 29