Translation and Technology

C.K. Quah



Contents

LI	St of Figures, Tubies and Boxes	IX
Se	ries Editors' Preface	xii
A_0	cknowledgements	xiv
Li	List of Abbreviations	
In	atroduction	1
1	Definition of Terms	6
	Machine translation	8
	Human-aided machine translation	11
	Machine-aided human translation	13
	Human translation	14
	The localization industry	19
	Conclusion	20
2	Translation Studies and Translation Technology	22
	Translation theory	22
	Academic and professional groups in translation	26
	Linguistic theories in machine translation systems	30
	Translation studies	36
	The translation process	43
	Conclusion	55
3	Machine Translation Systems	57
	Major historical developments	58
	Architectures	66
	Hybrid and interactive machine translation systems	84
	Online machine translation systems	85
	Commercial machine translation systems	87
	Reasons for using machine translation systems	89
	Conclusion	91

viii Contents

4	Computer-Aided Translation Tools and Resources	93
	Workbenches	93
	Translation support tools and resources	100
	Localization tools	113
	Commercial computer-aided translation tools	117
	Standards for data interchange	119
	Conclusion	128
5	Evaluating Translation Tools	129
	Machine translation systems	129
	Computer-aided translation tools	133
	Stakeholders	133
	Evaluation methods	135
	General frameworks for evaluating translation tools	139
	Conclusion	151
6	Recent Developments and Future Directions	152
	Machine translation systems	152
	Computer-aided translation tools	156
	Translation systems with speech technology	157
	Translation systems for minority languages	162
	Translation on the web	164
	Machine translation systems and the semantic web	166
	The localization industry	170
	Conclusion	171
7	Translation Types Revisited	172
	Relationships between topics and translation types	173
	Machine translation systems	193
	Computer-aided translation tools	193
	Conclusion	195
Δ1	ppendices	197
References		20 ⁴ 218
In	Index	