

Accuracy Assessment

Error (Confusion) Matrix

Randomly Sampled Test

~~Training~~ Set Data (Known Cover Types)

	W	S	F	U	C	H	Row Total	C.E.
Data	W	480	0	5	0	0	485	1%
S	0	52	0	20	0	0	72	2%
F	0	0	313	40	0	0	353	1%
U	0	16	0	126	0	0	142	1%
Classification	C	0	0	38	342	79	459	2%
H	0	0	38	24	60	359	481	2%
Column Total	480	68	356	248	402	438	1992	
O.E.	0%	24%	12%	49%	15%	18%		84%

Cover Types: W, Water; S, Sand; F, Forest; U, Urban; C, Corn; H, Hay

C.E. : Commission Error, O.E. : Omission Error

X_{it} = Row Total in Class i

X_{+i} = Column Total in Class i

$C.E(i) = (1 - X_{ii} / X_{it}) \times 100\%$

$O.E(i) = (1 - X_{ii} / X_{+i}) \times 100\%$

Overall Accuracy = $(\sum_{i=1}^n X_{ii}) / \text{Total Pixels} \times 100\%$

4.7.4

4.4.4 資料整合

☞ 不同日期

▶ 如“變遷偵測”

如圖4.10(a)酒泉飛彈基地(SPOT-5, 2003/10/13)

(b)酒泉飛彈基地(SPOT-5, 2005/09/25)

☞ 不同地面解析力

▶ 如黑白與多波段影像融合，如圖4.8彩色影像融合