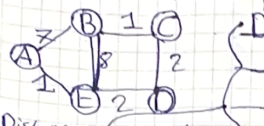
Bilgi ağları — uzaklık vektörü yönlendirme algoritması

$D^x(y,z)$ = distance from x to y, via z as next hop

$= c(x,z) + \min_w \{D^z(y,w)\}$

Örnek: Via/kullanarak



$D^E(\cdot)$	A	B	D
A	1	14	5
B	8	8	5
C	6	9	4
D	4	11	2

Distance Table — Dist/Hedef

$D^E(A,A) = 1$ | $D^E(B,B) = 8$, $D^E(D,D)$

$D^E(A,B) = c(E,B) + \min_w \{D^B(A,w)\}$

via $= 8 + \min\{D^B(A,C), D^B(A,A)\}$

$B \to 1+2+2+3$

$D^B(A,A) = 8$

Dist/Hedef $= 8 + \min\{6, 8\}$

$= 8 + 6 = \boxed{14}$

Dist/Hedef	outlink to use, cost
A	A,1
B	D,5
C	D,4
D	D,2

Routing table

$D^E(A,D) = c(E,D) + \min_w \{D^D(A,w)\}$

$= 2 + \min\{D^D(A,B)=10, D^D(A,E)=3\}$

$= 2 + 3$

$= \boxed{5}$

$D^E(B,A) = c(E,A) + \min\{D^A(B,B)=7, D^A(B,E)=9\}$

$= 1 + 7$

$= \boxed{8}$

$D^E(B,D) = c(E,D) + \min_w \{D^D(B,w)\}$

$= 2 + 3 = \boxed{5}$

$D^E(C,A) = c(E,A) + \min_w \{D^A(C,w)\}$

$= 1 + 5 = \boxed{6}$

$D^E(C,B) = c(E,B) + \min_w \{D^B(C,w)\}$

$= 8 + 1 = \boxed{9}$

$D^E(C,D) = c(E,D) + \min_w \{D^D(C,w)\}$

$= 2 + 2 = \boxed{4}$