Fou	Culculation	Ricommended	list	lu l	1110.	MF-A/S
		10000011111000	00-0			

Usur	Moure	Rabnig	Crenere
l	MI	4	Action, Scifi
1	MZ	3	Comedy, Sci, fi
1	M3	5	Duama, Sad
1	MY	2	Action, Co medy
(M 5	Y	Duama, Action

P(f/u) = The puobability distention of user h's interest in aspect on feature f

= Total number of times "As pert"
Total number of moure evented by user

P(a: "action" (UI) = 3/5 P(a="Comedy" / UI) = 2/5 etc..

P(9/u,f) = the perobability of choosing I from a set of Recommendation Rs grun usprit aspert fof user u

indicator (i, F) = 1 if $F \in Fi$, other wise it O $P(i(u, F)) = i \quad \text{and} (i, F) s(u, i)$

E ind (j, f) S(h,i) Jers

$$= \underline{4} = \underline{4} - \underline{1}$$

$$2 + 2 = 8$$

Nov
$$(i,RL) = \sum [p(a|u)p(i|u,a)] TT (1-p(j|u,a)]$$

 $xOuAD$ aga Jerl

Example A E (Action, Sad, Romance)

Nov(XQUAD)(MA,RL) =

diversi) cation = 0

eaun! $\int -\rho(a/u) = 3/5$ $-\rho(i/u), (Action!) = 0.5$ i = 1 Action)

equi = P(a/w) x P(i/ui, 'Action')

eq2 = 1 Fonjin RL [P(j/u,a)] lg=21 = eq1X(1-P(MA| u1a))

Cey 22 => Cev 1x(1 - P(MB) (1,a))

dumi fication - egz1 x egz2 · · ·

Agam me au gana do it jan aspect (sad) and (Roma).

Email Q(xQuAD) = div 1 + din 2 + din 3

Reluance Based

A = Set of Aspects

P(a, u) = perobability of user u being interested in aspect a P("action"/(U1) = 3/5 P(eulli, u, a) = indli, a) S(ui)

May Rating P(Rul MI, UI, "action) = 4/5 A = { action, Sad, Romance 9 Lou a m A a = action" p("action(u1) = 3/5 p(Rel/MI, UI, "action") = 4/5 eq 1 = P(a/u) x P(sul [i, u, "action) ew1 = 345 x 4/5 lay 2 = 1 Fan J m RL - J=M1,M2 M3 [1-p(ml, v1, "Action)=715] *eq, 1 [1 - p (ml (Mz, U, " Action") = ... xegrl du = eg/21 x eg/22. · · · · fau action Now loop will go jar 'Sad', "Romance"









