	\mathbf{u}_0	\mathbf{u}_1	\mathbf{u}_2	\mathbf{u}_3	\mathbf{u}_4	\mathbf{u}_5	\mathbf{u}_6			\mathbf{u}_0	\mathbf{u}_1	\mathbf{u}_2	\mathbf{u}_3	\mathbf{u}_4	\mathbf{u}_5	\mathbf{u}_6		\mathbf{u}_0	\mathbf{u}_1	\mathbf{u}_2	\mathbf{u}_3	\mathbf{u}_4	\mathbf{u}_5	\mathbf{u}_6
\mathbf{i}_0	5	5	2	0	1	?	?		\mathbf{i}_0	2	9/4	-1/2	-4/3	-3/2	0	0	\mathbf{u}_0	1	0.85	-0.55	-0.67	-0.87	0	-0.31
\mathbf{i}_1	3	?	?	0	?	3	?		\mathbf{i}_1	0	0	0	-4/3	0	1	0	\mathbf{u}_1	0.85	1	-0.87	-0.40	-0.55	-0.23	-0.72
\mathbf{i}_2	?	4	1	?	?	1	2		\mathbf{i}_2	0	5/4	-3/2	0	0	-1	-5/3	\mathbf{u}_2	-0.55	-0.87	1	0.27	0.32	0.47	0.97
\mathbf{i}_3	2	2	3	4	4	?	4		\mathbf{i}_3	-1	-3/4	1/2	8/3	3/2	0	1/3	\mathbf{u}_3	-0.67	-0.40	0.27	1	0.87	-0.29	0.13
\mathbf{i}_4	2	0	4	?	?	?	5		\mathbf{i}_4	-1	-11/4	3/2	0	0	0	4/3	\mathbf{u}_4	-0.87	-0.55	0.32	0.86	1	0	0.11
	+	+	+	+	+	\	+										\mathbf{u}_5	0	-0.23	0.47	-0.29	0	1	0.55
$ar{u}_j$	3	11/4	5/2	4/3	5/2	2	11/3										\mathbf{u}_6	-0.31	-0.72	0.97	0.13	0.11	0.55	1
	a) Original rating matrix ${\bf Y}$ and mean user ratings. b) Normalized rating matrix ${f \bar{Y}}$. c) User similarity matrix ${\bf S}$.															S.								
	\mathbf{u}_0	\mathbf{u}_1	\mathbf{u}_2	\mathbf{u}_3	\mathbf{u}_4	\mathbf{u}_5	\mathbf{u}_6			\mathbf{u}_0	\mathbf{u}_1	\mathbf{u}_2	\mathbf{u}_3	\mathbf{u}_4	\mathbf{u}_5	\mathbf{u}_6								
\mathbf{i}_0	2	9/4	-1/2	-4/3	-3/2	-1/2	-0.60		\mathbf{i}_0	5	5	2	0	1	1.5	3.06								
\mathbf{i}_1	0	-0.21	0.15	-4/3	-4/3	1	0.56		\mathbf{i}_1	3	2.54	2.65	0	1.17	3	4.22								
\mathbf{i}_2	5/4	5/4	-3/2	-1.55	-1.54	-1	-5/3		\mathbf{i}_2	4.25	4	1	-0.22	0.96	1	2								
\mathbf{i}_3	-1	-3/4	1/2	8/3	3/2	0.41	1/3		\mathbf{i}_3	2	2	3	4	4	2.41	4								
\mathbf{i}_4	-1	-11/4	3/2	1.45	1.46	1.41	4/3		\mathbf{i}_4	2	0	4	2.78	3.96	3.41	5								
	d) $\hat{\mathbf{Y}}$ e) Full \mathbf{Y}																							