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Building a biomedical structural and unstructured data collection and management system for medical education

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I-Jen Chiang [ab]

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ABSTRACT

fi Medical knowledge needed for physicians in clinical practice is getting complex and rapidly expanding nowadays. In order to provide an optimal patient cares in clinical practices, physicians need to get concise and precise evidences from information in time. This framework will design and develop a knowledge management system for the structured data management.

Keywords: Knowledge Management, Text Mining, Medical Education, Medical Literatures.

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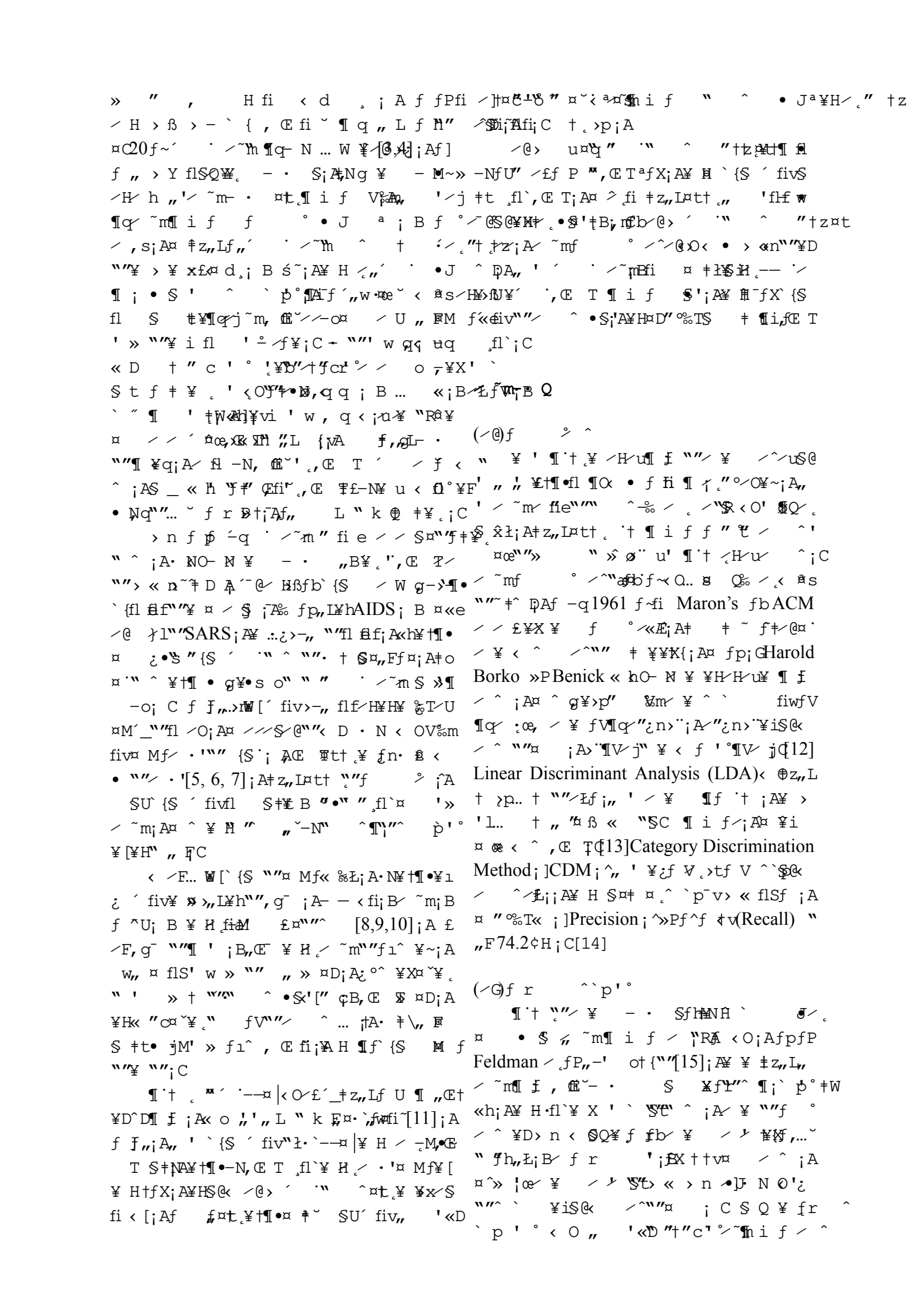

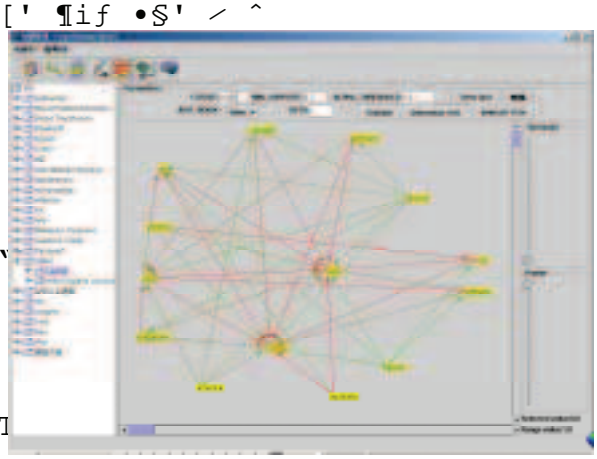

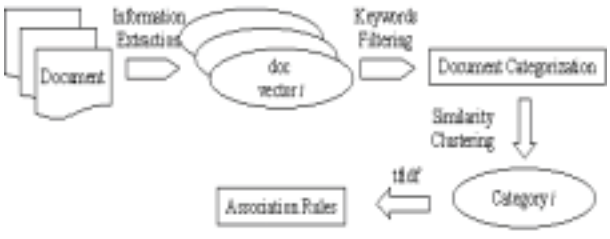
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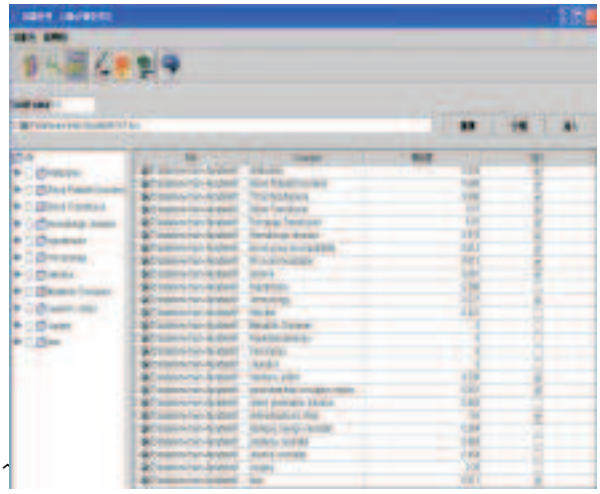

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Exchange Transfusion
Hematologic Disease
Blood Group Incompatibility
Rh Isoimmunization
Anemia
Hypotension
Immunology
Infection
Infant, Newborn Disease
Persistent Fetal Circulation Syndrome
Infant, Premature Disease
Erythroblastosis, Fetal
Epilepsy, Benign Neonatal
Asphyxia, neonatal
Anemia, Neonatal
Surgery
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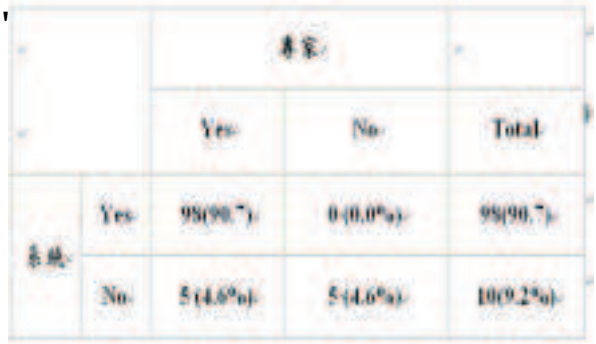

		Yes	No	Total
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	No	5(4.6%)	5(4.6%)	10(9.2%)

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Observed agreement = (98+5)/108 = 0.954
Random agreement = 0.907 * 0.954 + 0.092 * 0.046 = 0.869

Kappa = (0.954 - 0.869)/(1 - 0.869) = 0.649

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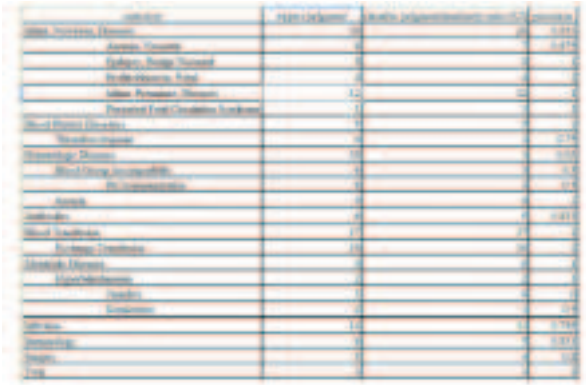

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