

地震に起因する人間被害の文献学的研究 (3) *
—世界の代表文献DB分析にもとづく研究活動の概観—

Bibliometric Study on Earthquake-Related Diseases (3)
—Overview of Research Activities by Means of Text Mining
of Retrieved Articles from World's Most known Medical DB-

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A series of bibliometric studies have started in aims at earthquake-related diseases and their drastic reduction via transdisciplinary approach over simple and traditional earthquake engineering. In the first paper in such objectives a construction of specific DBs were made via the established medical databases both in the world and in Japan, and a statistic analysis was conducted. In the second paper, an advanced analysis was made to disclose the expanse of the related fields, using 160 retrieved papers from Japan's most known DB, Japona Revios Medicina. In this third paper, the similar advanced analysis was conducted using 630 original articles retrieved from PubMed, USA, the worlds's most known medical DB.

After having a simple statistics and chronological survey on research activities in these decades, a variety of bibliometric studies was conducted. The first step in this paper was to make clearer the horizon of earthquake-related diseases and we found that the medical activities for the 1988 Armenian earthquake are most pioneering in the sense which a full-scale survey was made in all angles of earthquake-related diseases and short-to-long recoveries. For the following several numbers of devastating worldwide earthquakes, comparative studies were made to characterize quake-to-quake, having the Armenian earthquake as the reference event.

***Key words** Earthquake-related Diseases, Medical database, PubMed, Chronological study, Worldwide, Major earthquakes, Natural language processing, Comparative study*

1. はじめに

既に第1報の冒頭で述べたように地震に伴う人間被害は伝統地震(工)学が主対象とした外科的死傷に止まらず, 内科的・精神科的諸疾患も大きく関係するし, 時間的にも地震の最中・直後に止まらず, 後発・後続型の諸疾患として多発する. このことは医学分野では周知の事実であるが, さりとて地震の発生を起点としてそれがもたらす健康への影響といった, 関連事象の広領域性とか長期継続性等の学際性を強く意識した, 分野横断の包括的研究はいまだ劣勢といわざるを得ない. こういった状況を踏まえ, それを打破するための基礎知見構築を旨として, 関連医学文献の検索・抽出に始まる書誌学的シ

*本稿は2007年11月28-29日に京都大学で開催されたInternational Workshop on Disaster Medicineにおいて発表した報告を骨子としている(英文の副題が同一). このため, 本稿の前半部において第1報と若干重複する. また, 図表等の説明は英語書きのものを使用している.

リーズ研究を立ち上げた。したがって、分析は通常の基礎統計による前処理を経て、近年発展の著しいText Mining（自然言語処理）の諸手法を援用することとした。

第1報ではこの観点から目的的文獻DBを世界・日本の代表医学文獻DBを親DBとして作成し、それにもとづく基礎統計的および時系列的分析を報告した。これはText Mining—第1表参照—の諸手法のうちレベル1とレベル2に相当する処理を行ったことに相当する。第2報では、日本を代表する医中誌DBから検索・抽出された約160の文獻にもとづき、レベル3（地震別特徴抽出、関係分野の拡がりや深さの視覚化等）に至るやや高度の処理を実施した。

第1表 Text Mining分析の概要

Level	Processing	Methods
Level 1	Retrieval Subject-specific DB	Information-seeking
Level 2	Classification and Trend Analysis etc	Basic Statistics
Level 3	Advanced Analysis Graphical Drawing Discovery of New Knowledge	Multi-Dimensional Analysis Natural Language Processing

Source: Nasukawa (2006), Technologies for Text Mining (Japanese)

第3報となる本論では世界を代表するPubMedを親DBとすることで、第2報と同様にレベル3におけるText Mining処理を中心に議論を展開する。PubMedを親DBとすることで「地震に伴う人間被害」問題について世界的視点の考察が可能となり、さらにその過程でわが国の現況を位置付けることにも意をもちいた。この点が、第3報がもつ狙い所でもあり特徴でもある。したがって、アプローチの大きな流れは第2報と酷似している。しかし、準備段階、すなわち、分析の原資料となる文獻毎のKeywords選定方法に違いがあり、この点についてあらかじめ説明しておく必要がある。端的にいえば、第2報では手造りのKeywordsをあらためて作成した上でその活用を計ったが、第3報では親DBが用意する既成のKeywordsを使うこととしている点に第2報との大きな違いがある。経緯、理由等については脚注を参照されたい[†]。

[†]医中誌を対象とした第2報では、手造りで新たに準備した。親DB（医中誌）が文獻毎に用意している既成のKeywordsを参照しながらも、語意の〔抽象—具体〕性の違いとか、概念の階層性〔上位—下位〕等に留意しつつ、〔中—小〕項目からなるグループに手作業で分類し、併行して類似語等の括り込み整理を行った。その上で、16個からなる中項目Keywordsの組とそれらの下位に数個がぶら下がる形の小項目（総計50個）からなる2段階Keywords群を構成した。この手製のKeywords群を活用することで、総数156に達する文獻別の（手製）Keywordsマトリックス表〔156行、50列〕に帰着させた。

今回対象とするPubMedの場合、抽出された文獻数が630編にもなり、手作業を伴うこの方法は実際的でなくなる。一方、親DBが用意する既成Keywords群がそのまま活用できるならば、分析自体の適用性・汎用性が高まるという利点もある。つまり、〔既成—手製〕Keywordsのいずれを使ったとしても一長一短がある。この意味で既成Keywords群をそのまま使うことで一体どの程度まで分析が進められるかの検討は相応に重要な課題となる。PubMedが用意するKeywords群を原資料としたText Miningの諸手法を試行する所以である。

以下、まずPubMed DB利用に関わる準備作業について簡単に復習し、その上でレベル3の種々の分析とその結果について記述する。

2. Text Mining にもとづく前段分析ーレベル1, 2の処理ー

1) 文献の抽出と簡単な整理ーレベル1の処理

米国国立医学図書館 (National Medical Library, National Institutes of Health) が構築し、管理運営する医学情報DBーMEDLINEと呼称ーのWeb版がPubMedであり、現在世界で最も高い評価を得ているDBである。これを親DBとして主題「地震と人間被害」に関する目的DBを作成することから、当該研究は始まる。

第1図にPubMedのホームページを再掲しておく。ここで [地震 (Earthquake) , 人 (Humans) , 原著論文 (Original Articles)] といった検索用Keywordsを用意することで文献検索と抽出が実施できる。具体手順は第1報の付録Aに詳しく述べてある。

Limit your search by any of the following criteria.

Search by Author

Search by Journal

Full Text, Free Full Text, and Abstracts

Links to full text
 Links to free full text
 Abstracts **抄録の指定**

Dates

Published in the Last:

Added to PubMed in the Last:

Humans or Animals

Humans Animals

Gender

Male Female

Languages

English

French

German

Italian

Japanese

Russian

Spanish

More Languages

Afrikaans

Albanian

Subsets

Journal Groups

Core clinical journals

Dental journals

Nursing journals

Topics

AIDS

Bioethics

Cancer

Complementary Medicine

History of Medicine

Type of Article

Festschrift

Government Publications

Guideline

Historical Article

Interview

Journal Article **原著論文の指定**

Lectures

Legal Cases

Ages

All Infant: birth-23 months

All Child: 0-18 years

All Adult: 19+ years

Newborn: birth-1 month

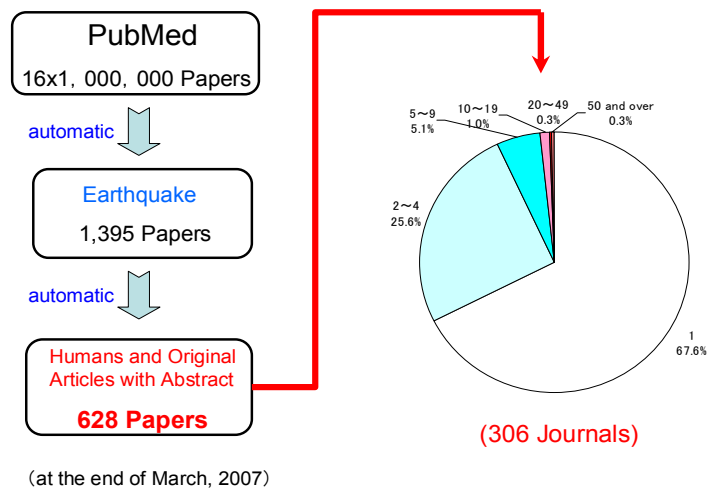
Infant: 1-23 months

Preschool Child: 2-5 years

Child: 6-12 years

Adolescent: 13-18 years

第1図 PubMedのホームページ.

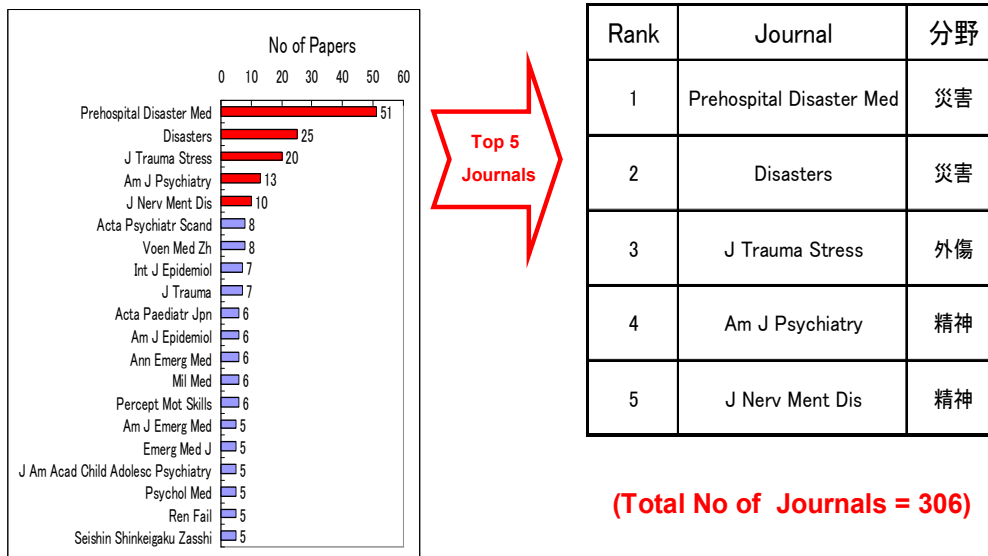


第2図 PubMed文献絞込みの手順. 右側はJournalの頻度分布.

PubMedに収録されている文献は総数1600万件に達する [2007年3月末時点]. これから上記の検索用Keywordsを順次適用することによって文献の絞込みを計る. この手順と結果を第2図に示しておく. 結局, 今回の主題にもとづく目的DBは約630件 (正確には628文献) からなること, また出典となるJournalは総数306に達することとなった.

第3図 (左側) にTop 20のJournalについて関係文献収録集 (頻度分布) を示しておく. 右側はTop 5 Journalの略称と関係 (するであろう) 分野を示しておく. 特に注意すべきは地震最中・直後の外傷系 (Casualty) 疾患は当然ながら, これに加えて内科・精神医学的な分野に広がっていることである. (付録AでTop 5のJournalとそれらが集録する文献との関係を詳しく調べている. また, 関連分野の広がりを医学領域および周辺学際領域との関係で考察している).

Top 20 Journals



第3図 関係主要Journal群. Top 20およびTop 5 Journal.

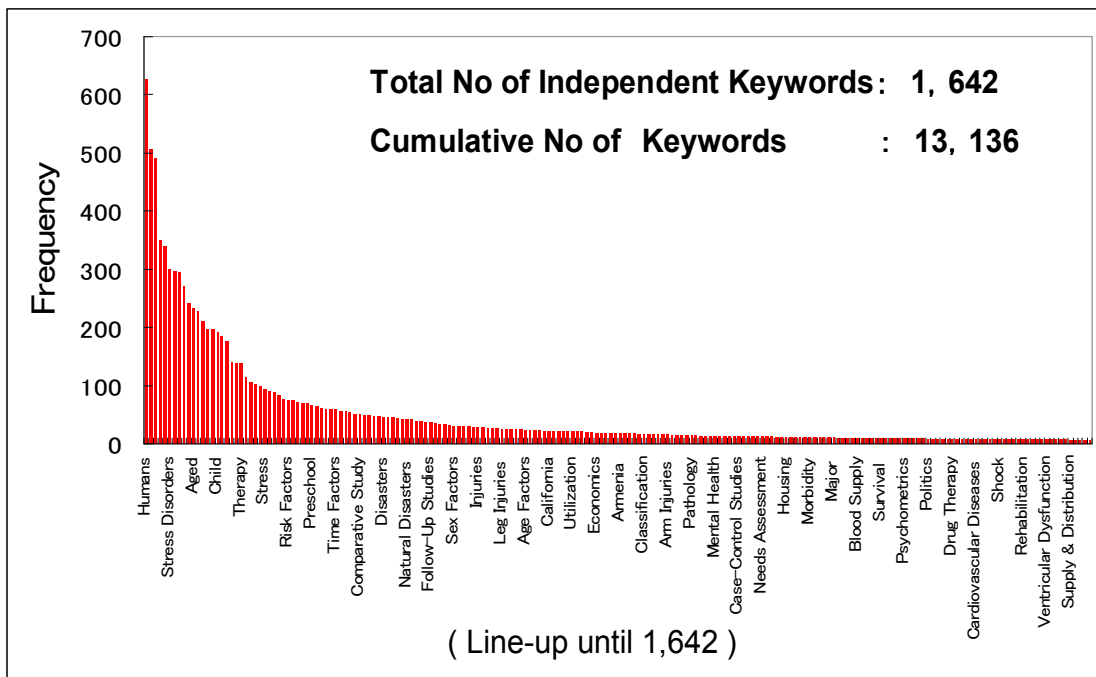
抽出された文献の事例を第2表に示しておく。1行が1文献である。PubMed IDとあるのは親DBがもつ文献別の識別Noである。右に向けて[Author, Title, Journal, Year, Vol (No), Page]等が続く。次のAbstractは通常数100字をもつ抄録である(ここではカットしてある)。右端は文献別のKeywords一覧である。これも1部のみが掲げてあるが、実際には文献当たり数10個をもっている(後述)。なお、このKeywordsは「シソーラス用語(Thesaurus, 既定), フリーキーワード(Free Keywords, 著者作成), チェックタグ(Check Tag, 既定)」等から成り立っているが、分析に際しては特に区別しない。以下の議論ではこれらの全てをあらためて“Keywords”あるいは“語句”と総称する。これらが後述のText Miningの中心資料となる。以上がInformation-seeking処理(レベル1)と以降への準備の概要である。

第2表 抽出文献群の事例

YO_No	PubMed ID	Author	Title	Journal	Year	Vol (No)	Page	Country	Abstract	Keyword
1	825656	Felix, W. R	Metropolit	J Trauma	1976	16(11)	p.873-81	United Sta	This article	*Aircraft Cost-Bene Humans Natural Dis
2	974305	de Ville de	Earthquake	Bull Pan A	1976	10(2)	p.95-109	other cour	The damage	Communic *Disasters *Emergenc Guatemala
3	69793	Spencer, F	Disease-si	Lancet	1977	2(8030)	p.181-4	other cour	In the first	Animals Bites and *Communic Decision N
4	864250	Janney, J.	Impact of i	J Human S	1977	3(2)	p.22-34	peru	A major ea	Adult Attitude to Comparati Cross-Cul
5	461874	Mandache,	Role of th	Rev Chir C	1979	28(2)	p.151-60	other cour	The author	Adrenal M Adult Animals English Ab
6	6796845	Hauber, P.	Catastrop	MMW Mun	1981	123(46)	p.1757-60	italy	The earth	Disaster P *Disasters English Ab First Aid
7	7088111	Halperin, D	Developme	N Engl J M	1982	307(6)	p.388-92	other cour	PIP: The 4	Diarrhea, I Education, Health Edu Health Mai
8	7064074	Santangel	A study of	Surg Gyne	1982	154(3)	p.372-4	italy	Subsequer	Adolescen Adult Creatine / Creatine K
9	7157030	Alexander,	Disease e	Soc Sci M	1982	16(22)	p.1959-69	italy	This paper	Communic Commun Commun *Disasters
10	6843880	Speciani, /	Acupunct	Minerva M	1983	74(17)	p.953-60	other cour	The author	*Acupunct Adult Cluster He English Ab
11	6131167	Trichopoul	Psychologi	Lancet	1983	1(8322)	p.441-4	greece	The effect	Acute Dis Anxiety / i Coronary I Coronary I
12	6394374	Preston, S	Children ai	Demograph	1984	21(4)	p.435-57	United Sta	Let me su	*Aged *Child Demograph Education
13	4061611	Johnston,	Growth st	Am J Phys	1985	68(2)	p.215-24	other cour	This paper	Age Factor *Body Cor Body Heigl Body Weig
14	4000876	Persinger,	Geophysic	Percept M	1985	60(2)	p.575-82	other cour	The tector	*Disasters Geology Humans Magnetics
15	3997385	Medici, R.	Response	Int J Neuri	1985	26(1-2)	p.47-52	other cour	There hav	Animals Arousal / i Behavior, i *Disasters
16	3988425	De Bruyck	The 1980	Int J Epide	1985	14(1)	p.113-7	italy	The effect	Disaster P *Disasters Female Humans
17	3982923	Persinger,	Geophysic	Percept M	1985	60(1)	p.143-52	United Sta	A strong ti	Behavior / *Disasters Geology Humans
18	3771068	Katsouyan	Earthquake	Int J Epide	1986	15(3)	p.326-30	greece	The acute	Analysis of Coronary / *Disasters Greece
19	3767693	Trevisan, I	Short-tern	Arterioscle	1986	6(5)	p.491-4	italy	In this ana	Body Weig Cholesterc Coronary / Coronary /
20	3602494	Buckley, J	Stochastic	Risk Anal	1986	6(1)	p.35-41	other cour	This paper	*Decision Humans *Probabilit *Risk
21	3794271	Reithermai	How to pre	J Emerg M	1986	4(2)	p.119-31	United Sta	Practical e	*Disaster I *Disasters Hospital D *Hospitals
22	3692460	Gavalya, A	Reactions	Hosp Com	1987	38(12)	p.1327-30	mexico	In Septem	*Adaptati Adolescen Child *Disasters
23	3312621	Sheng, Z.	Medical su	J Trauma	1987	27(10)	p.1130-5	china	The Tangs	China Crush Syn Disasters Emergency
24	3601604	de Man, A.	Factors in	Percept M	1987	64(3 Pt 1)	p.815-20	United Sta	130 subjec	Adolescen Adult Anxiety / i California
25	3792507	Persinger,	Geopsych	Experient	1987	43(1)	p.92-104	other cour	Temporal	Behavior Copper *Geology Goiter / ei
26	3659203	Martinez, j	Earthquak	Psychiatr I	1987	30(1)	p.209-38	mexico	Starting w	*Disasters English Ab Humans Mental Dis
27	2899247	Leaning, J.	Physicians	Lancet	1988	2(8605)	p.269-70	other cour	KIE: Diffic	*Emergenc Ethics, Me Health Res Humans
28	3211205	Smolka, A.	Natural di	Naturwisse	1988	75(7)	p.327-33	other cour	The attem	*Disasters Emergenci English Ab Humans
29	2604900	Lin, Y.	Study on e	Biomed En	1989	2(4)	p.331-4	china	The first ti	Cadaver China / ep Communic *Disasters
30	2630021	Yuan, S. Y.	Superficie	Zhonghua	1989	69(9)	p.482-5, 3	other cour	SBF in 15	Acupunctu Adult Aged Comparati

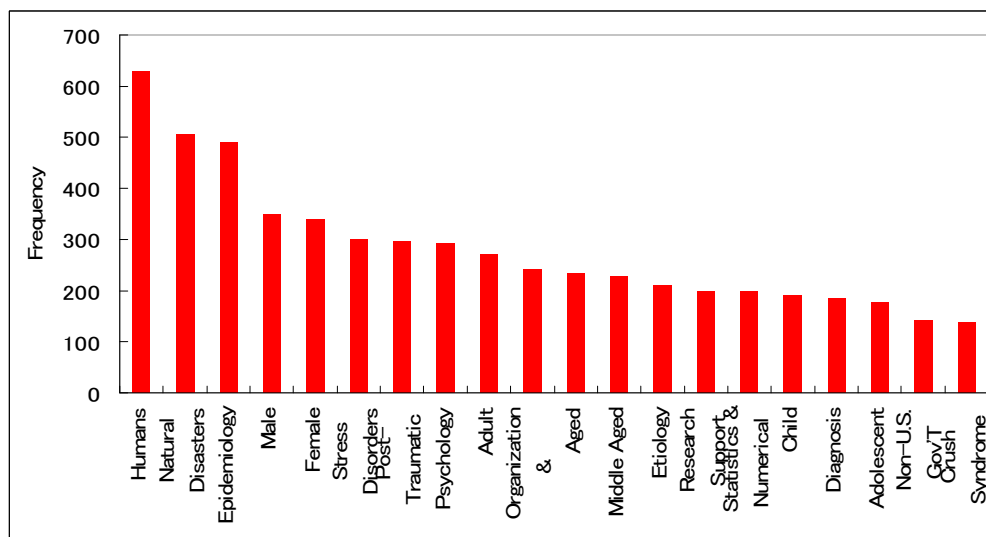
1) Keywords群の基礎統計ーレベル2の処理

まずKeywords群について一般的特徴を調べておく。Keywords群の出現頻度分布とか文献当たりの出現頻度等々である。抽出全文献628に含まれるKeywords群は総数13,000余に達した。このうち、独立のKeywords数は1,642個をカウントした。第4図(a)は出現頻度の最上位から上位100までのKeywords群について頻度分布を描いたものである。



第4図(a) Keywordsの頻度分布（上位100位まで、但し5個おき）。

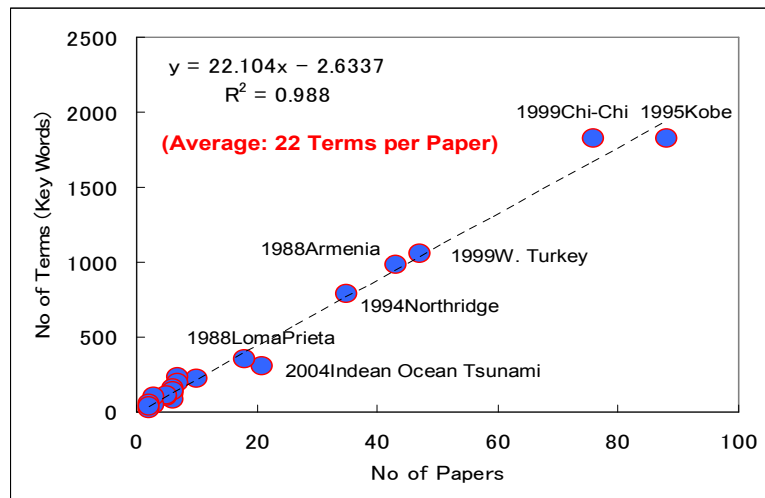
同様に、第4図(b)は最上位から20位までのKeywordsについて頻度分布を描いたものである。これらから、今回作成した文献DBがもつ内容について概要把握が可能となる。



第4図(b) Keywordsの頻度分布（上位20位までの全て）。

第4図(b)に注目すると、最上位に“Humans”が現れ、次いでNatural Disasters, Epidemiology, Male, Female・・・のように続いており、[Earthquake, Humans]を検索用Keywordsとして与えたことをよく反映し、また検索の妥当性を強く示唆している。他方、このことは既成Keywords群によるさらなる分析の有意性をも示唆したものといえる。なお、文献当たりの平均Keywords数は22個 [累積語句総数13,136/628文献÷22]と概算される。このことを確認するため第5図を作成した。これは全628文献のうち、それぞれが主題とする地震名を識別した上で [地震別の文献数：Keywords数] の関係をプロット

したものである。文献当たりのKeywordsが [22個/地震] の関係をよく保持している。

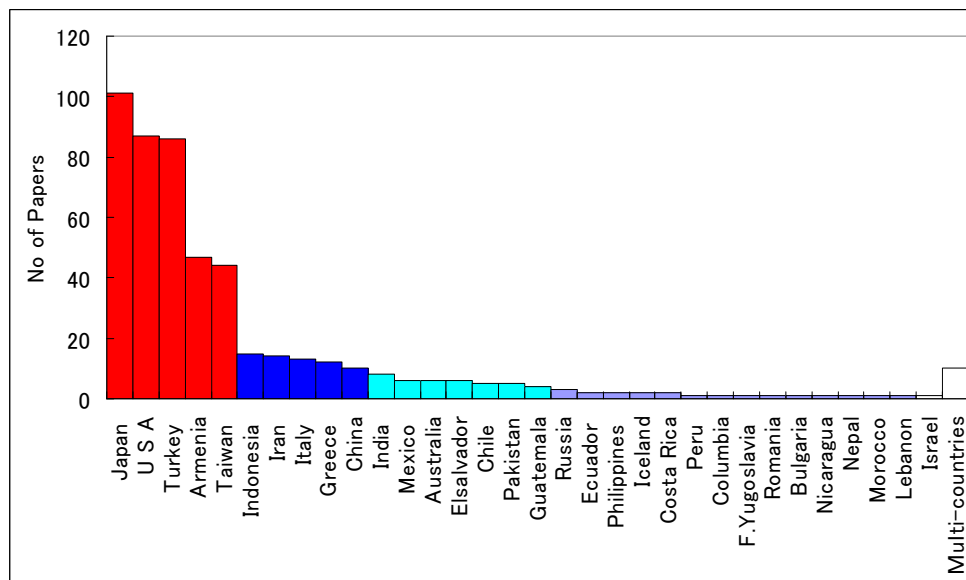


第5図 地震名別文献数 : Keywords数.

3) 国別・地震別文献の時系列変化ーレベル2の処理

抽出された文献資料にもとづき関連研究活動の時空間的性向を種々の切り口で調べることができる。ここでは、国単位あるいは地震単位で捉えている。

国別の研究活動 世界で地震国ともいえる国(地域)は約60余りある[太田(1990)]。さりとて、それら全ての国々で関連研究が活発に行なわれているわけではない。本論では国別の研究活動を計る簡単指標として関連文献数を調べてみる。文献毎の「国(地域)名」は親DBがあらかじめ用意しており、これを使う(実際には筆頭著者の国籍で決まっているとみてよい)。

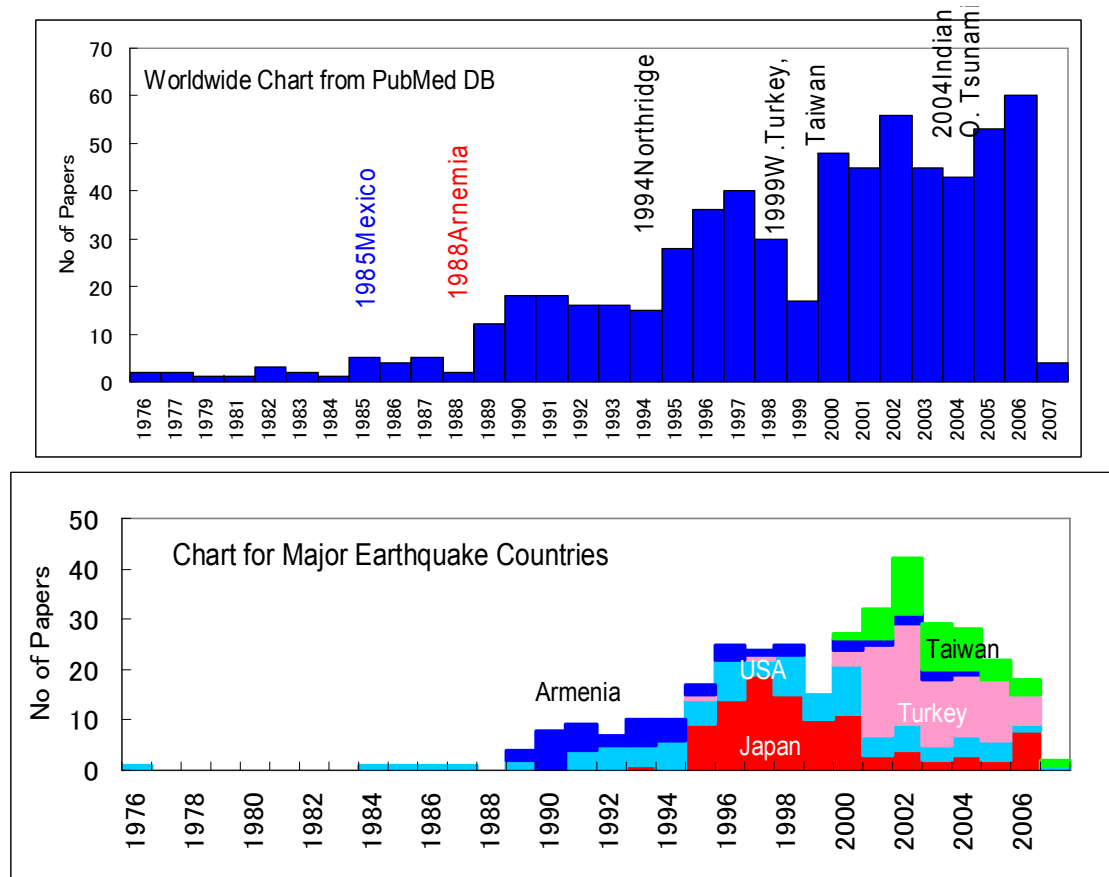


第6図 国別 [文献] 頻度分布.

この資料のもとづく国別 [文献数] 頻度分布を第6図に示す。JapanにはじまるUSA, Turkey, Armenia, TaiwanがTop 5の国等であり, [Indonesia, Iran, Italy, Greece, C

hina] がTop 10に入る国々である. さらにIndia, Mexico・・・と続き全部で30余りの国々がカウントできる[‡]. この国別 [文献数] をもって研究活動度の1指標とみることに違和感はないであろう. この結果, わが国が第1位を占めていることは特筆に価する. しかし, そういった高い研究活動を支えている要因が激甚震害発生の高い危険性の反映とも思われる面があり, 単純に成果を誇るわけにはいかない.

年代別の研究活動 親DBであるPubMedの集録は1976年以降本格活動に入っており, この時期以降の研究活動を時系列的にみる事が出来る. 第7図(a)にこれを示す. 上側図は

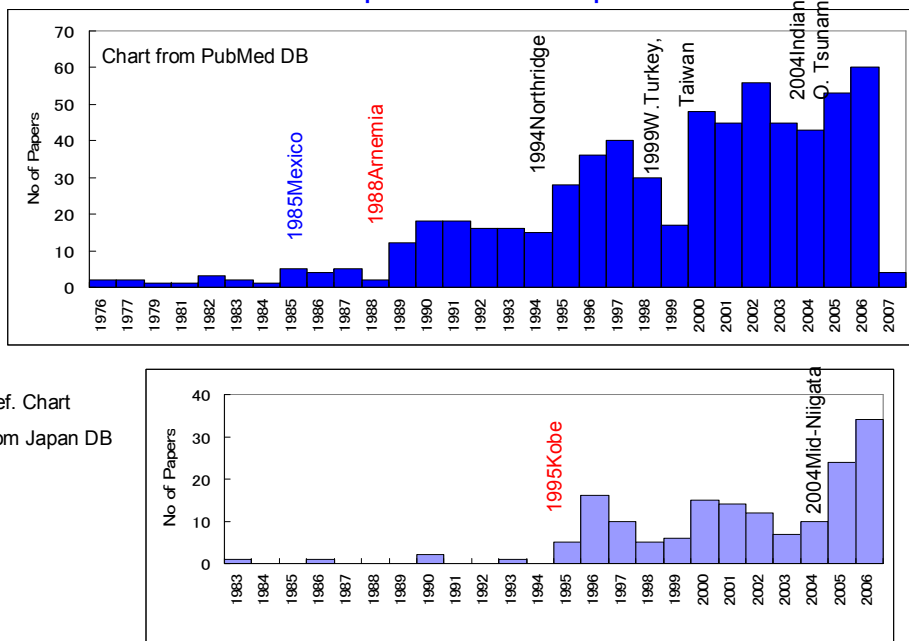


第7(a)図 [文献] 数の時系列. 上図: 全文献 下図: 主要国別.

単純に年代別文献数を示したものである. 文献数は現時点に向けて漸増の一般性をもつが, 一様増加には程遠く, 「激甚災害地震」を付記してみると, それらを契機として階段状に増加する傾向が顕著である. 世界的には1985Mexico地震が関連研究の嚆矢 (Pioneering Study) に位置し, 1988Armenia地震をもって本格研究 (Full-scale Study) の年代に突入したことを思わせる. 以降は図中に示す地震群が関連研究の飛躍的發展に契機を与えていることが推察される. 下図は国 (第1著者の国籍) 別にみたものである. それぞれの国が激甚地震の発生を引き金として, 研究の活発期に急速に入り, 一定年代の後次第に低下する様子がハッキリと読み取れる. 例外はUSAで, 1980年代の早い時期から研究活動が始まり, 今日に至るまでかなり安定した活動をみせている.

[‡] 国の呼称については, 国際法上難しい問題がいわれている (Taiwan 等). 本論では「国等」の扱いとしている. Armenia (旧 USSR の自治領) を国としている.

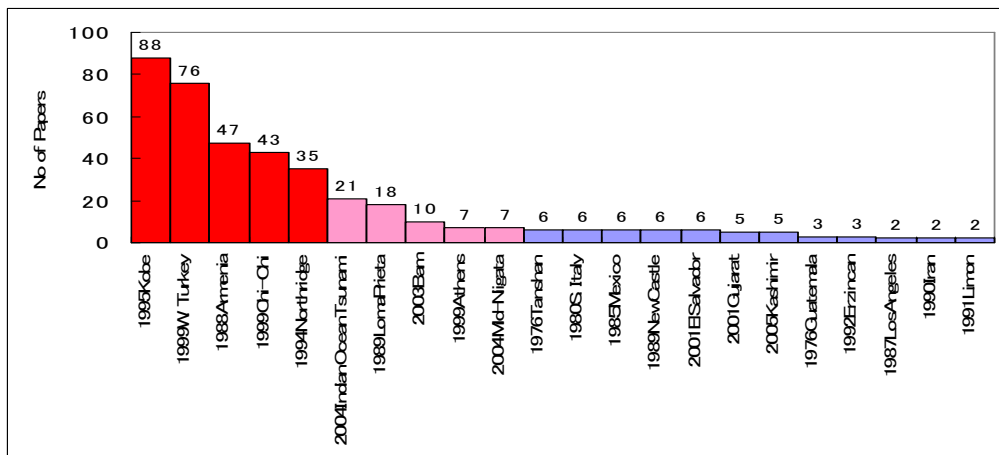
参考までに [世界：日本] の関係について第7 (b) 図を作成した。これからわが国の



第7(b)図 [文献] 数の時系列. 上図：全世界 下図：日本 (医中誌資料) .

本格研究開始は1995神戸の地震を待たなければならなかったことが鮮明に判る。先にわが国の文献数が世界1位にあることを述べたが、関連研究の立ち上げはかなり遅れていることを銘記すべきであろう。

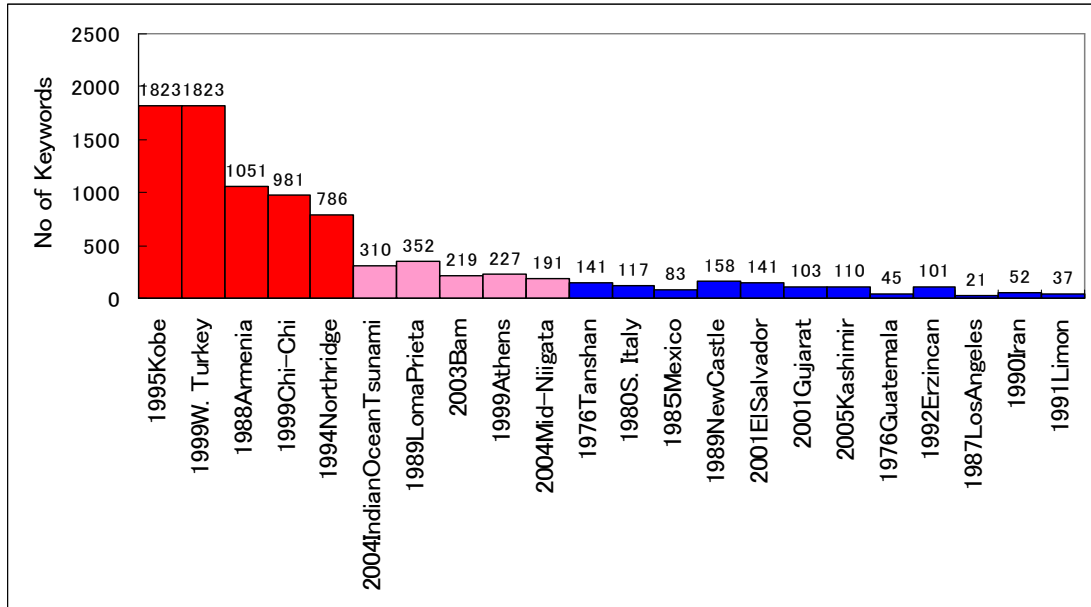
地震別の研究活動 1976年以降に世界で発生した激甚地震数は優に20を越えている。628文献のうち、対象地震を特定でき、また文献が2編以上ある地震は20に近い。第8 (a) 図に地震別の文献頻度グラフを作成した。Top 5は [1995 Kobe, 1999 W Turkey, 1988 Armenia, 1999 Chi-Chi(Taiwan), 1994 Northridge] である。Top 10は2004 Indian Ocean Tsunamiにはじまり、1999 Athensに至る津波・地震群である。2004Mid-Niigataは11位に位置する。



第8 (a) 図 主要地震別文献数 [文献数/地震>2] .

以下、20位までは図の通りである。地震当たり1文献となる地震数は20を越えている。参

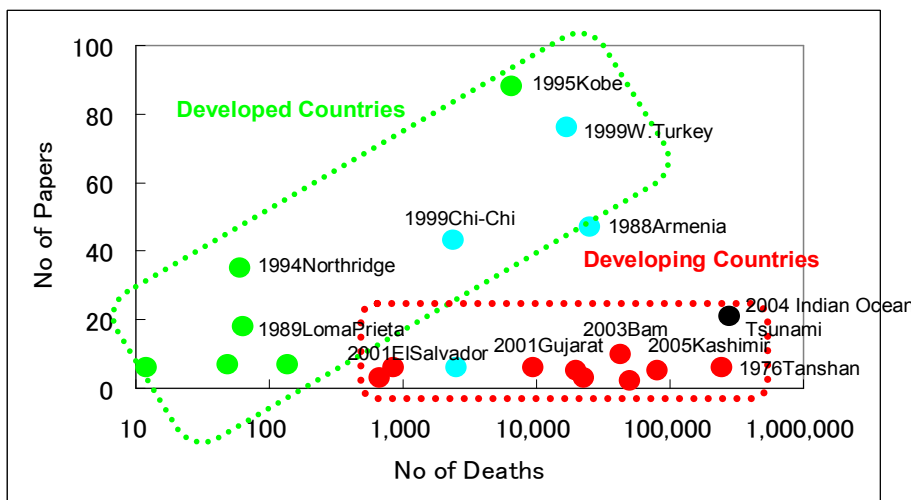
考までに地震別のKeywords頻度分布を第8図(b)に掲げておく(第5図はこの資料による)。



第8(b)図 主要地震別Keywords数.

ところで、地震・津波の激甚性を表わす重要指標に「死者数」がある。そこで、地震・津波別の死者数と文献数との関係を見るための散布図を作成してみた。これが第9図である。プロットされた点は一見バラバラに見えるが、それぞれに地震・津波名を記入してみると一つの秩序があるように見える。すなわち、関係国(地域)がおかれた経済・社会発展の度合い(GDP等を参照)の違いによって[先進国(地域), 途上国(地域)]に2分した結果を図中に併記した。この結果、[死者数: 文献数]の関係が大きく2グループに分かれているように見える。すなわち、大約

- ・先進国: 死者数の増大と文献数(研究活動)の増大とが比例的関係にある
- ・途上国: 死者数の増大にも拘わらず、文献数(研究活動)がほとんど変化しない

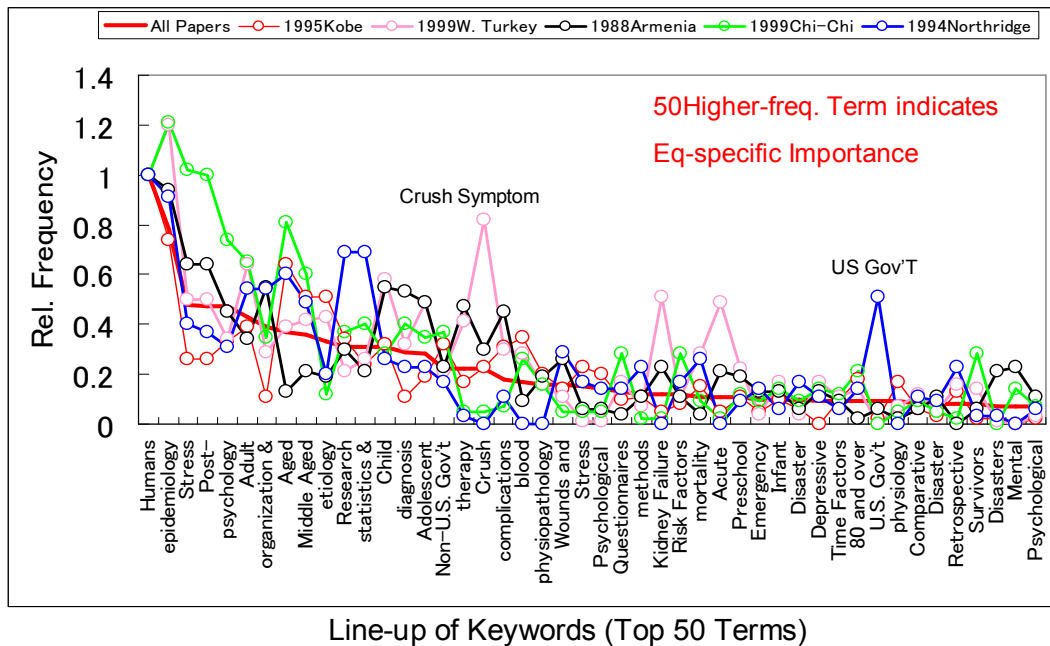


第9図 主要地震別 [死者数: 文献数] .

といえる関係にあることが推測される。そうだとすれば、ここに大きな問題が内在しているように思われる。本来、先進国型の研究活動があつてはじめて次なる地震への防災

戦略の向上が計れるはずであるし、先進国にあってもさらに研究活動の一段の活発化が望まれるところでもある。途上国型の研究活動をこのような観点からみると大きな問題を抱えていることが伺われる。すなわち、死者数の爆発的増大という衝撃にも拘わらず、そのインパクトが研究活動の活性化にほとんど効を奏していないことである。また、その当然の延長として“同じ誤りを繰り返す”ことになりかねない危うさを内蔵している懸念を思わせる結果でもある。ハッキリいえば、人命の価値（に対する扱い）が先進国・途上国で“現実”は大きく違い、これがこのグラフに一目瞭然の形で現れているともいえる。21世紀に生きる人類の念願の1つが「地震に伴う死者ゼロの達成」にあるとすれば、何をおいても途上国を中心とした死者低減戦略の確立が最優先となるべきであろうし、それを下支えするのが途上国に発生する激甚地震に関する研究活動の抜本向上である。現状は、目標のはるかな距離にあることを認めざるを得ない。

ところで、第10図は既成Keywords群について出現頻度の相対関係を〔地震名が特定できた全文献：Top 5地震群〕についてみたものである。上位50語句を対象とした。これから、Humans (=1.0) に始まり右に向かって漸減する一般傾向をもつ一方で、地震毎に大きく変動する様子がハッキリとみえる。後者が、いわば地震がもつ個性の違いを反映



第10図 Keywordsの相対出現頻度〔地震名が特定できた全文献：Top 5地震群〕。

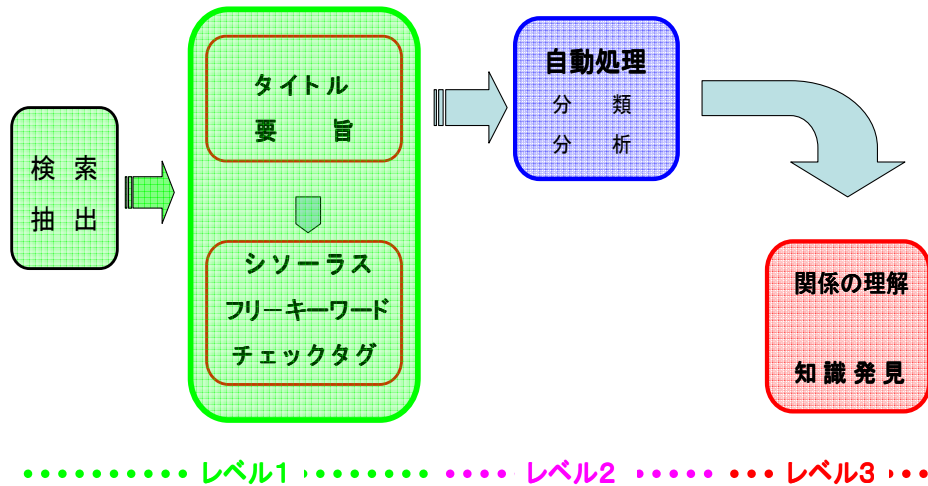
したものと思われ、この点に注目した分析が望まれるところである。ここにレベル3の、Text Miningの出番が回ってくる。以上で、レベル1および2の分析処理関連の説明を終える。次いで、レベル3の処理分析に移行する。

3. 本格分析－レベル3の処理－

1) 全体像の把握

文書（自然言語）を原資料とする情報処理を文献書誌学的観点から整理すると第12図〔第2報の図面の再掲〕のようになる。このうち、レベル1と2の処理を経て、文献当たりのKeywords群（シソーラス、フリーキーワード、チェックダグを総称）が収集・整理さ

れた。これらを原資料としてレベル3の分析処理を行うこととする。これが第10図に示すような自動処理によって進められるならば、処理結果の客観性の面からみて大いに望ましい[§]。これはText Mining（自然言語処理）の課題でもあり、適宜の処理システム（プログラム）導入が必須である。当該シリーズ研究ではフリーソフト“Polaris”を利用することとしており、本論でもこのソフトを活用することとした。このソフトがもつアー



第12図 文書資料の情報処理（Text Mining）のフロー。

キテクチャー・アルゴリズムについては第2報で説明してあり、ここではポイントのみの説明に止める。大沢等（1999）に始まるアルゴリズムであり、Windows上で利用可能である〔解説は大澤（2003）に詳しい。また、以降の発展については大澤（2006）を参照されたい〕。論理と手順の基本は以下の諸点である。

- ・あらかじめ準備された語句群－Keywords群－を用意し、入力情報とする。本論の場合、EXCEL上に文献1件（1行）で表示された内容をcsv形式（セル間をコンマで区切り、末尾に改行記号を入れる）に変換することで即入力Dataの単位集合となる。
- ・1単位のData集合で、出現頻度（Term Frequency, tf法）が高く、かつ文献間の共起度（Co-occurrence）の高い語句を重要語句とみなす。
- ・重要語句を核とするクラスター群を構成することで〔語句群間〕関係を記述する。
- ・結果は語句をノードとしその重要度を〔黒丸（●）＞赤（●）〕として色分けする。また、語句間を共起度に応じて結線（リンク）し、語句間関係の全体を2次元グラフで視覚化表示する。語句毎の位置座標は特に意味をもたない**。KeyGraphと総称する。

基本アルゴリズムはこのように単純であり、ソフトの操作性も優れており、これが実用上の利点となっている。その一方で、簡単なツールなるが故に適用如何で結果が相当幅広く変化するという任意性も併せもっている。相応の習熟が要請されるところであり、結果をみながら状況に応じた工夫を必要とする場面も発生する（具体事例は後述）。

以下、検索・抽出させた全628文献に対する適用に始まり、1988Armenia地震を以降の地震群の（仮）基準事例とすることで主要地震のいくつかについて結果を掲げている。

[§] 冒頭で述べたように、本論では親DBが用意するKeywords群をそのまま使うこととしている。この点が第2報と違っている。

** 例えば、語句[A, B]の関係は両者のリンク状態〔リンクの有無、リンク線の強弱（黒線＞赤線）〕で決まり、見掛け上の〔位置、角度〕等は関係しない。この点で数量化III類の結果表示法とは大きく違う。

報は思いの外限定されている。確かなところは [Earthquake and Humans] を検索語とした今回の文献検索・抽出が正しく実施されたことくらいである。本論の場合、Polarisの単純適用が効を奏さないのは、これらの語句が他の語句に比べて極端に突出した出現頻度をもっている。このため、出現頻度が下位にある語句間関係がこれらによって隠蔽されてしまうところにある。この難点を克服する簡単な手続きは出現頻度上位にある語句をあらかじめ除去しておくことである。第4(a), (b)図のKeywords出現頻度分布にもどってみると、今回の文献群では人間の「性別、年齢層」等を表す語句が当然ながら非常に多い。第12(a), (b)図においても同様である。そこで、それらの語句群を一旦除去することであらためてPolarisの適用を考えてみる。一時除去の候補語句としては第12(b)図の [Humans, Male, Female, Natural Disasters] の他に、人間属性を規定する下位語句 [80 and over, Aged, Middle Aged, Adult, Adolescent, Child, Infant] 等々を考えた(このことは医中誌DB分析を実施した第2報において既に経験済みである)^{††}。第3表は人間属性に関わる語句の出現頻度図である。これらの出現頻度は他の専門的重要語句に比べて著しく高い。

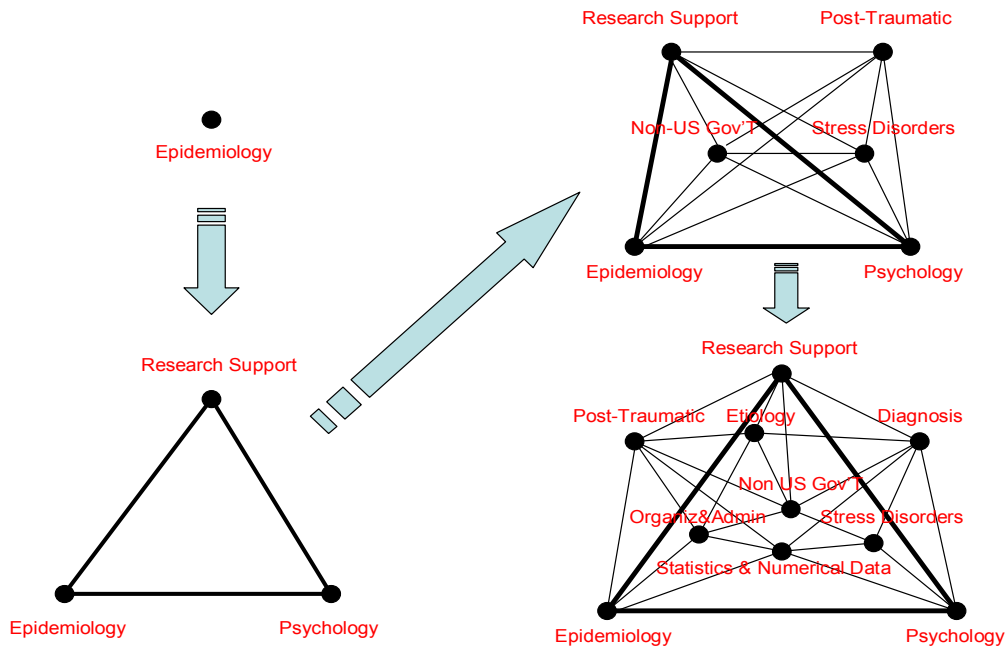
第3表 人間属性関係語句出現頻度表

Terms	Frequency
Infant	63
Child	205
Adolescent	184
Adult	271
Middle Aged	229
Aged	233
80 or Over	57
Male	350
Female	340

これらを除いた修正Keywords群を作成した上であらためて適用を計った。その結果を第13図に示す。ここではKeyGraphを見易くするため、重要語句(●)のみの表示としている(これを“骨格KeyGraph”と仮称しておく)。まず、重要語句(●)をただ1個とした場合に始まり、3, 6, 10個と変えた4ケースを示しておく。このとき、[Epidemiology]の単一点に始まり、次いで[Epidemiology, Psychology, Research Support]からなる三角形を形成し、さらに[+Non US Gov' T + Stress Disorders + Post Traumatic]からなる枠組みをなし、重要語句(●)が10個では[+Statistics & Numerical Data + Organization & Administration + Etiology + Diagnosis]に発展する。これらはいずれもが人間被害に直結する重要語句群であり、第13(a), (b)図との違いは歴然である。参考までにKeyGraphのノードとして現れる医学関連専門用語のうち、伝統地震(工)学に馴染みの少ない(であろう)語句を脚注しておく^{††}。

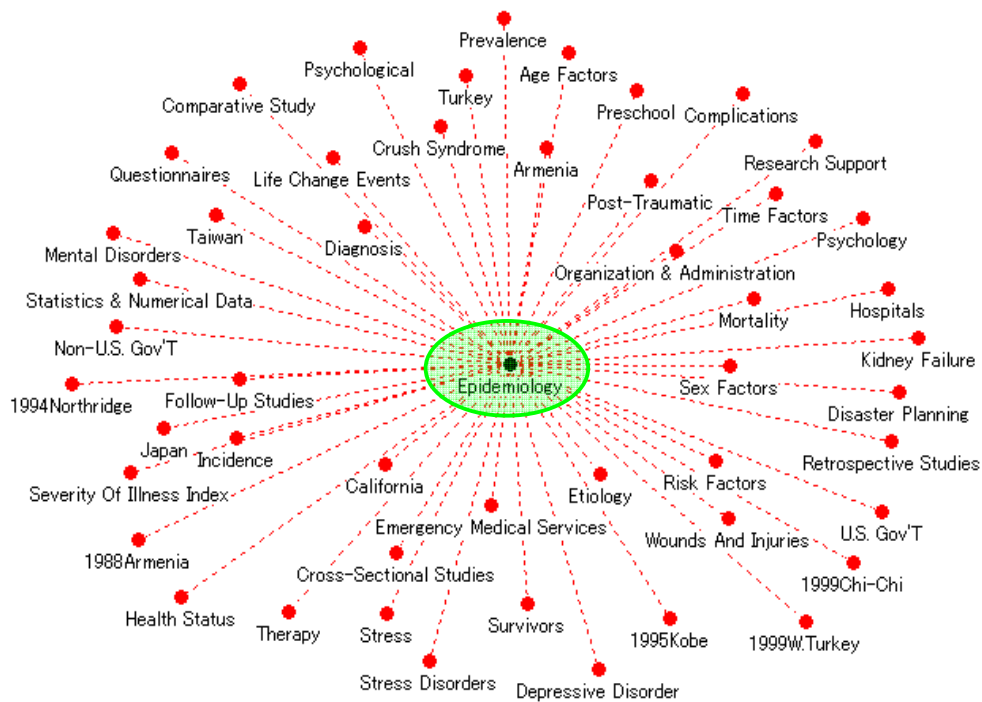
^{††} ここでは628文献全体の概要把握という粗い議論であり、人間の属性を細分記述する語句は一特に多出する場合一却ってNoise的な働きをする。したがって、これらを一時的に除去して議論することとした。しかし、個別地震間の人間被害特性を分析する場合は、これらの人間に関わる下位語句が逆に重要となることがある。一つの語句が分析目的によってSignal的にもまたNoise的な働きをすることがあり、当該ツールの適用に際して注意しておくべき点となる。

^{††} Adolescence: 青年, Depression: 抑うつ(症), Epidemiology: 疫学, Etiology: 病因論学, Physiology: 生理学, Physiopathology: 生理病理学, Psychology: 心理学; Acute: 急性, Crush Syndrome: 挫滅症候群, Incidence: 発病率, Prevalence: 罹患率, Multiple Trauma: 複雑(多重)外傷, Psychiatric: 精神科, Post Traumatic: 外傷後, Prognosis: 診断, Renal Dialysis: 腎臓透析, Stress Disorders: ストレス不全, Therapy: 治療(法)

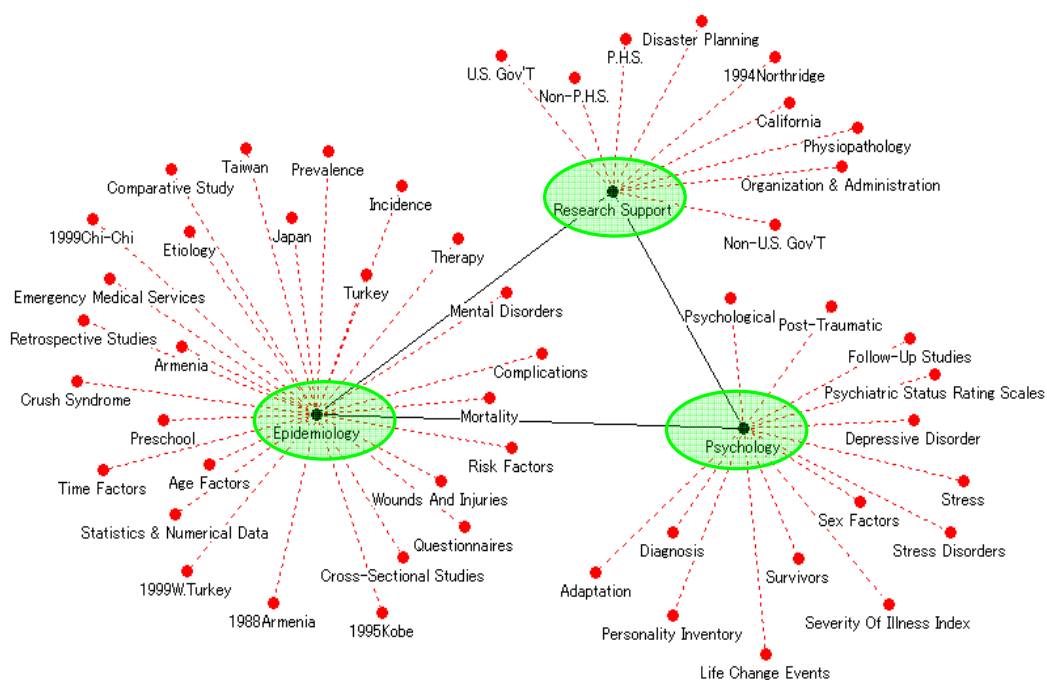


第13図 重要語句(●)を1, 3, 6, 10個と変えた場合の骨格KeyGraph [全628文献].

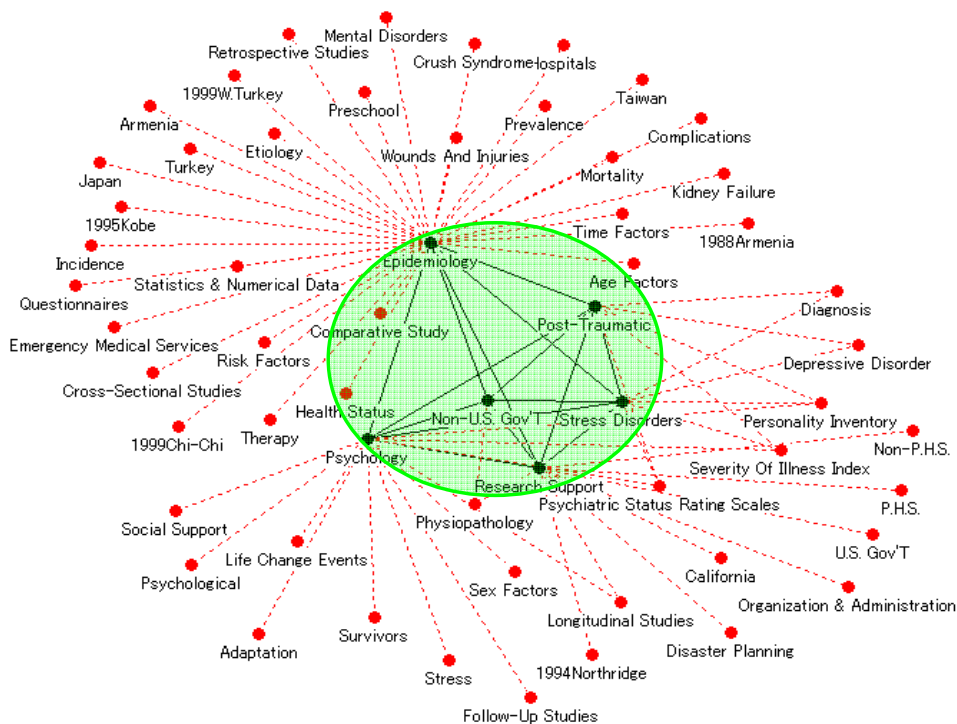
Polarisの適用 以上のような注意を払った上で本格適用に移行した. 重要語句(●)を1, 3, 6, 10個とした場合を第14(a), (b), (c), (d)図に示す. 第13図の骨格KeyGraphに対して50に及ぶ下位語句(●)を加え, リンクしたものである.



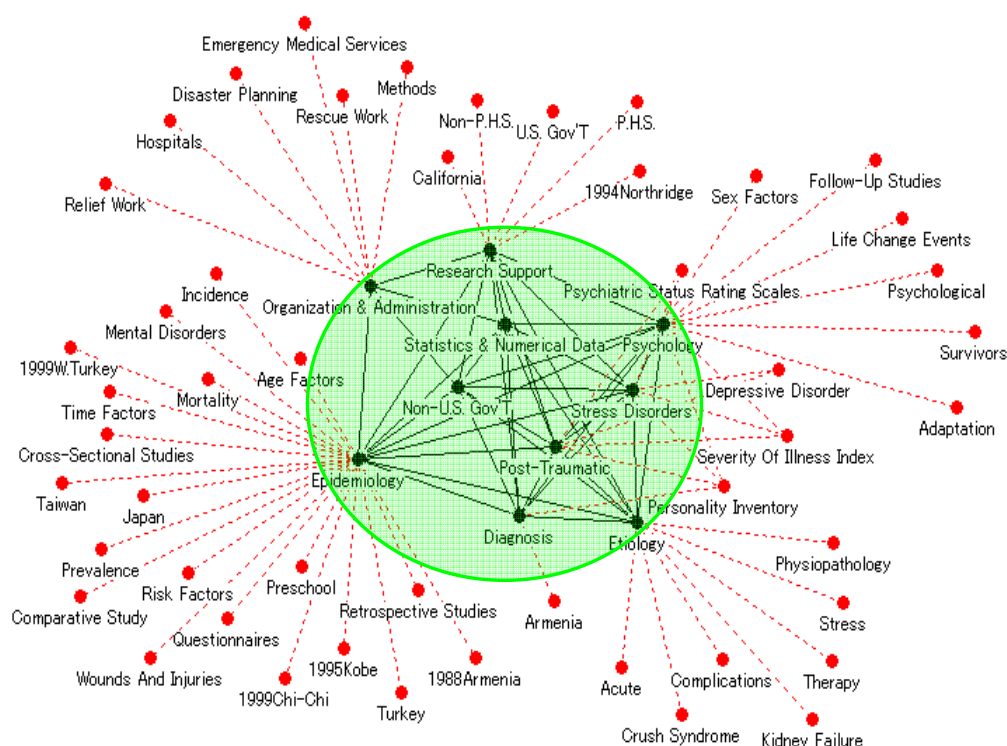
第14(a)図 重要語句(●)を1個にした場合 [全628文献].



第14(b)図 重要語句 (●) を3個にした場合 [全628文献] .



第14(c)図 重要語句 (●) を6個にした場合 [全628文献] .



第14(d)図 重要語句 (●) を10個にした場合 [全628文献] .

以上の、第13図および第14図を通じて、医学を中心においた場合の「地震と人間被害」に関する諸相が次第にみえてくる。第14 (a)図から、これがEpidemiologyの1語に集約され、あるいはこの言葉を源流として関連分野のすべてが発生していることをハッキリと読み取れる。Epidemiologyは疫学（時に医生態学）と邦訳される医学の一大分野の総称であり、以下のように定義されている。すなわち、『明確に規定された人間集団の中で出現する健康関連のいろいろな事象の頻度と分布およびそれらに影響を与える要因を明らかにして、健康関連の諸問題に対する有効な対策樹立に役立てるための科学』である [日本疫学会 (1999)]^{§§}。重要語句 (●) を3個とした場合に現れるPsychology (心理学)は、Epidemiologyを広義で捉えることで始めて理解できる位置付けであろう。地震との関連を初めて明確に打ち出したのは恐らくNojiであろう。彼は“Epidemiology of Earthquakes”といった表現で地震環境下の疫学を議論している [Noji (1997), International Symposium on Earthquakes and People’s Health: Vulnerability reduction, Preparedness and Rehabilitation (Kobe, Japan, 27-30 January 1997)]。しかし、このような扱いは地震 (工) 学関係者には意外に知られていないかも知れない。

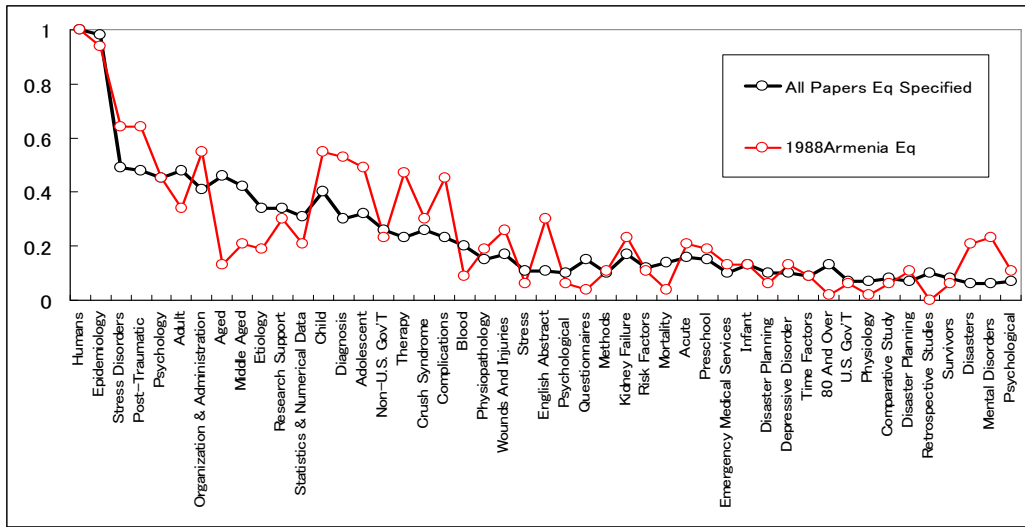
ともあれ、このような次第で『Epidemiologyは疫学（時に医生態学）』が (災害) 医学分野の全体を包括する概念として理解されてきているところであり、今回得た第13, 1

^{§§} 早期には急性感染症の流行に関する理論解明を目的として発達した学問であり、それ故に「疫」学と邦訳されているが、研究対象を次第に広げ、成人病・難病などおよび環境汚染に起因する健康障害、社会環境の急速な変化に起因する精神疾患等、幅広い健康異常の原因解明と対策樹立を目指すようになった。最近では疫学の対象がさらに広がり、長寿・体力の向上・健康増進・QOL など積極的に高い水準の健康要因を追求する方向も視野に入ってきている。したがって、下位分野も多々ある。Classic Epidemiology (古典疫学), Molecular Epidemiology (分子疫学), Genetic Epidemiology (遺伝疫学), Clinical Epidemiology (臨床疫学), Environmental Epidemiology (環境疫学), Theoretical Epidemiology (理論疫学) 等である。

4図にみるKeyGraph群はまさしくEpidemiology of Earthquakesに関する内容の具体表現であり、かつかなりの汎用性をもった出力結果であるといえよう。

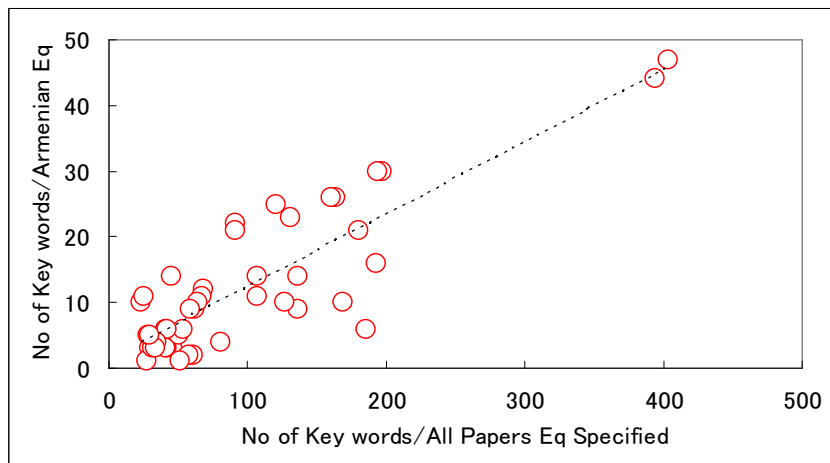
②1988Armenia地震 [M=6.8, December 7, 11:41am, 死者=25,000人] - 基準事例 -

既にみてきたように世界の「地震に伴う人間被害」関連の本格研究は1988 Armenia地震に始まっている。そこで、もしこの地震を関連研究の「基準事例」として位置付けることが出来るならば、他の地震群との関係を見る上で好都合となる。この可能性について若干の事前検討をしておく。



第15(a)図 [地震名が特定できた全文献：1988Armenia地震] のKeywords出現頻度。

第15(a)図は第10図から1988Armenia地震関係分のみを再掲したものである。また、第15(b)図は地震名が特定できた400余の地震全体と1988Armenia地震のそれとを対比してみたものである。このとき相関係数は0.86となる。



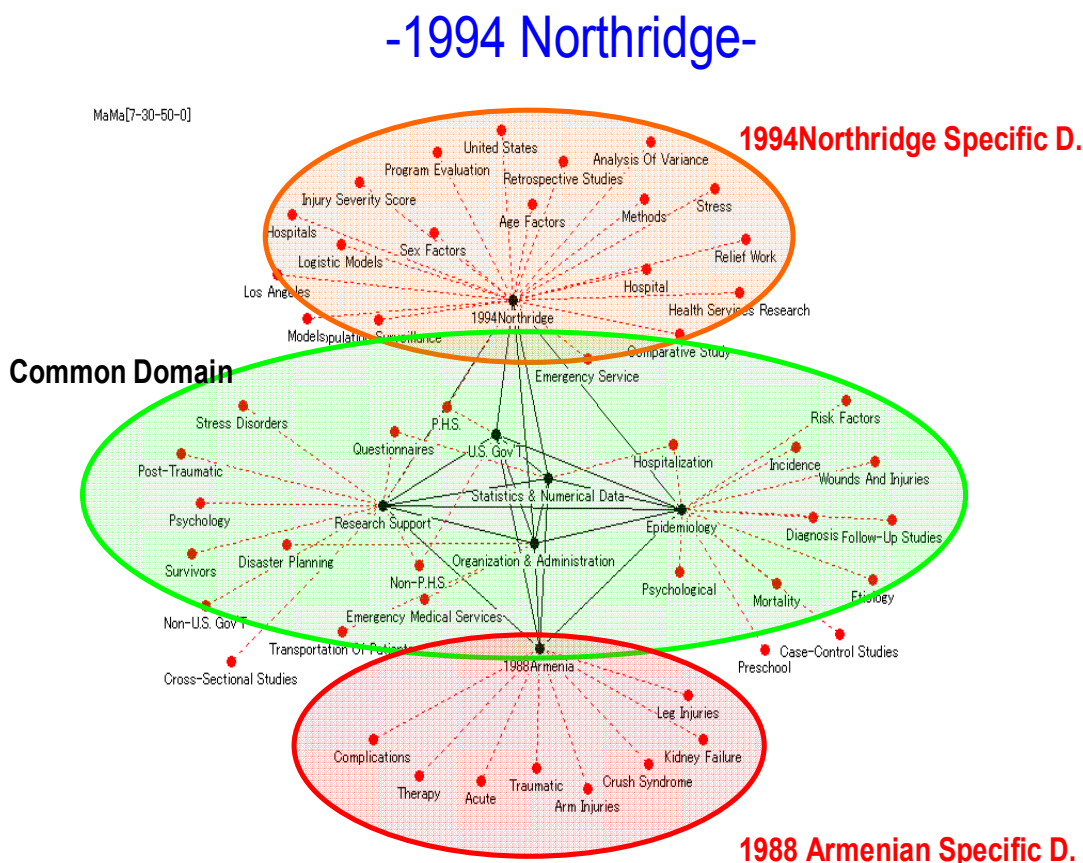
第15(b)図 [地震名が特定できた全文献：1988Armenia地震] 間のKeywords出現度。

これらの図から、1988 Armenia地震において関連研究が一気に拡大し—関係Keywordsが爆発的に増え—今日の拡がりや深さに近いレベルに達していたことが読み取れる。そ

地震別の（絶対的）KeyGraphを作成した上で相互の比較をするのが有利な場合もあるが、地震毎の特徴を一層鮮明に表示するためには相対比較に勝るものはない。ここではArmenia地震を基準事例として他の主要地震との対比を試みる。ただ、対比KeyGraphを作成するに先だって、地震毎のKeywords数（文献数）を見掛け上同一となるように事前調整（最小公倍数による）を行っておく必要がある。第2報で「1995神戸地震：2004新潟県中越地震」の対比KeyGraph作成した際に検討済みの方法である。以下、この方法による対比KeyGraphを列挙する。対象は第8(a)図に掲げた上位5つの地震である。

①1994 Northridge地震, USA [January 17, 4:30am, M=6.7, 死者=60人]

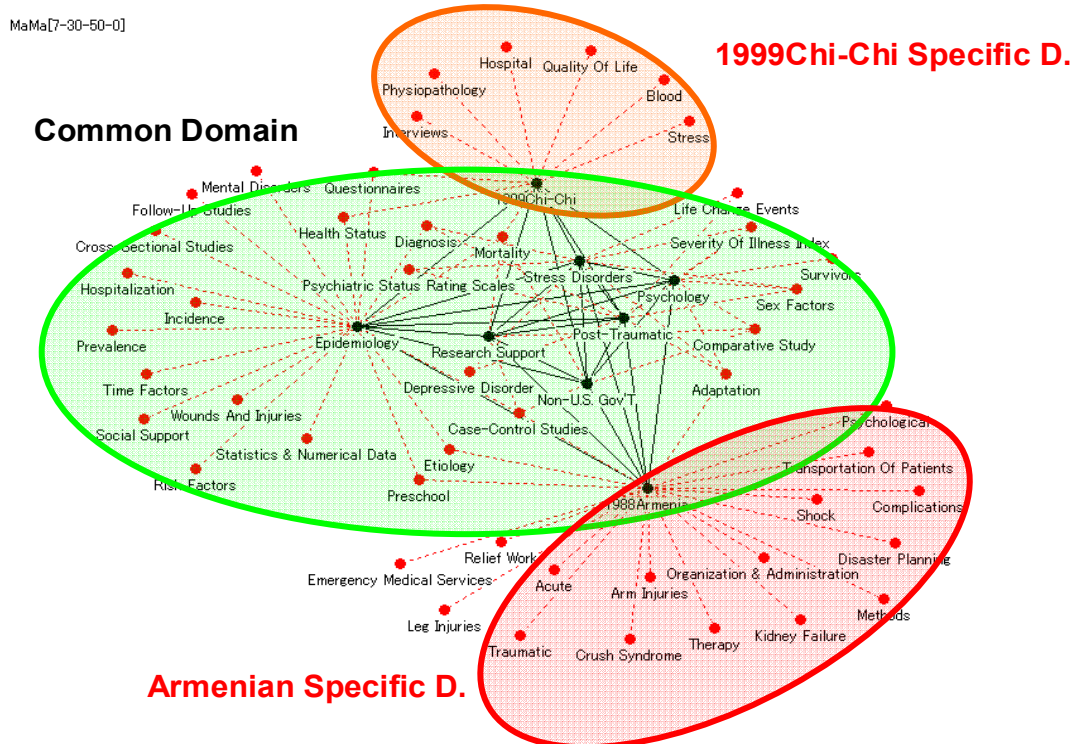
両地震の文献数（Keywords数）はNorthridge [35(786)], Armenia [47(1051)] となっており、みかけの文献数（Keywords数）を近づけるため公倍数として前者を3倍し、後者を2倍することで調整した上で、両地震の対比KeyGraphを作成し、さらに両地震に共通的に現れるDomain, 地震別の特徴を示すDomainを手動で区分し、表示した。これが第18図である。



第18図 1994 Northridge地震（1988 Armenia地震との対比）。

このグラフから特徴のいくつかを読み取ることができる。ここでは地震名以外の重要語句（●）を5個としているが、これらは「Epidemiology, Research Support, Organization & Administration, Statistics & Numerical Data, US Gov' T」となっており、628文献の全体でみたPsychologyはむしろ劣位に属している。Armenia地震に対して米国の研究者が精力的な活動を開始しており、Epidemiology in Earthquakes 研究の爆発的発展をみたが、このことが「Research Support, US Gov' T」という重要語句に帰結し

-1999 Chi-Chi, Taiwan-



第21図 1999 Chi-Chi Taiwan 地震 (1988 Armenia地震との対比) .

以上のように、第8図に示す文献数 (Keywords数) のうち、Top 1~5位の地震について1988 Armenia地震を基準事例とする対比が実施できた。しかし、Top 6位以下の地震については、文献数 (Keywords数) がArmenia地震のそれと違い、少な過ぎるため、同様の対比は無理である。これらの地震から文献数の順番に従ってグルーピングし、相互の関係を概観した。Top 6-10位の地震群とTop 11-17位の地震群に2分してみた。

2) Top 6-10の地震群 [文献数降順 : 21, 18, 10, 7, 7]

第1のグループは以下の5地震である。

- ・ 2004 Indian Ocean地震・津波 [December 27, 7:58am, M=9.1, 死者>28万人]
- ・ 1989 Loma Prieta地震, USA [October 17, 5:00pm, M=7.1, 死者=63人]
- ・ 2003 Bam地震, Iran [December 26, 5:26am, M=6.6, 死者>30,000人]
- ・ 1999 Athens地震, Greece, [September 7, 0:56pm, M=6.0, 死者=143人]
- ・ 2004 Mid-Niigata地震, [October 23, 5:56pm, M=6.8, 死者=42人]

このグループでは地震毎の文献数がかなり違うため、事前調整を必要とする。ここでは近似最小公倍数を“100”として、地震毎に [5, 5, 10, 14, 14] の係数を掛けることで見掛けKeywordsがほぼ一定となるように調整した。その上で、このグループの5地震を一体とした統合KeyGraphを作成した。結果を第22(a), (b)図に示す。

- ・1989 New castle, Australia [M=5.4, 死者=12人]
- ・2001 El Salvador, [January 13, 5:33am, M=7.7, 死者=844人]
- ・2001 Gujarat, India [January 26, 16:4, M=7.7, 死者>20,000人]
- ・2005 Kashmir, Pakistan [October 8, 8:50am, M=7.6, 死者=80,361人]

この場合、文献数 (Keywords数) がよく似ていることから、7個の地震についてすべてのKeywords群を集めた上で統合KeyGraphを描くことが出来る。結果を第23図に掲げておく。この図の中に地震毎の特徴のいくつかをみる事が出来る。7個の地震はそれぞれに個性的であるといえる。いくつかを列挙しておく。

- ・外科的疾患 (Injury, Casualty等) とは違った切り口の語句が多々出現している。Longitudinal Studies (長期研究), Post-traumatic (外傷後), Stress Disorders (ストレス不全), Quality of Life (QOL, 生活の質), 等々である。
- ・1976 Tanshan地震は犠牲者が格段に多い地震であったにも拘わらず、その実態が意外によく見えない。
- ・1980 S Italy地震・1985 Mexico地震は1988 Armenia地震に先だって幅広い調査研究がなされた地震である。地震後長期間にわたって継続する人間被害が注目された。
- ・1985 Mexico地震でTriage (トリアージ, 重傷度選別)の導入が開始された。2005 Kashmir地震等との共通項でもある。
- ・1989 New castle地震の特異性が極端に際だっているようにみえる。地震活動が非常に低い地域で、当然予告なしに発生したため外傷系疾患もさりながら、心理・精神的影響ははるかに大きかったことを思わせる地震である。地震の規模に比して関連文献数が多い。驚愕の結果であろうか。
- ・2001 El Salvador地震では過半数の死者が地すべりによっている。これが防災行政上、新たな問題として発生したことを思わせる。
- ・2005 Kashmir地震は死傷者多発にも拘わらず、他の地震との類似性が意外と少ないようにみえる。Therapy (治療) が共通項になっている。

以上のように、このような統合グラフを描くことで地震間関係のある程度まではみることができるようになった。しかし、このような分析で得られた結果は多分に表層的なものに止まっている。さらに地震毎に詳しくみる、あるいは特定の主題を設定した上で丁寧な分析を試みていくべきことを思わせる結果でもある。

6. 結言

本論でPubMedDBから検索抽出された約630の文献と文献毎に用意されているKeywordsを基本Dataとすることで、種々のText Mining(自然言語処理)を試み、関連分野の拡がり、深さそして繋がりについて注意しながら、世界の主要地震に対する「人間被害」の大要把握を試み、さらに主要地震間の相互比較を実施した。この作業は医学を中心核とする文献書誌学的分析であり、Noji (1997) の“Epidemiology in Earthquakes”を実態的に考察したことに他ならないと総括することもできよう。その結果として、地震(工)学関係者が地震最中・直後の外科的死傷に限定しがちであった「地震に伴う人間被害」問題について、視野拡大の必然性を強く示唆したものとなった。

その一方で、今回集録した文献群が医学DBに依拠していることの必然の結果でもあるのだが、人間被害の諸問題を地震の力学要因から解き始めることに注力した文献は高々[数例/628文献]に止まっていたことに驚きを覚えたことも確かである。

Epidemiologyの研究者は「慢性疾患等の発生要因は、多くの要因が異なった重みで綾をなしている」と考え、これを“因果の綾(Web of Causation)”と称している[日本疫

学会(1999)]。まさにその通りである。そうだとすれば、Epidemiology in Earthquakesも地震関係諸学からの知見をさらに摂取して一段の向上を計る必要がある。“Epidemiology in Earthquake Engineering”とか“Socio-Epidemiologic Earthquake Protection”等といえる学問分野の探求であろうか。ともあれ、関連研究の望ましい発展には一発症誘因の主力である一地震(工)学の側に起点をもちながら、災害医学研究者を始めとする多分野との学際研究(Transdisciplinary Study)を積極導入するといった、一種のパラダイムシフトが必須となる。このことは第2報の、日本国内を主体する医中誌DBの分析において既に指摘しておいたが、今回の世界潮流分析を通じて一層鮮明になった。

一方、本論の分析に直近の、残された課題は多い。この第3報で実施した文献書誌学的分析は一レベル3のText Miningに属するものの一皮相的・断片的なものに止まっている。本論では、例えば、地震間比較においても[高出現頻度&高共起度]のKeywords群に高い重要度を与えた分析であった。したがって、これは人間被害関連事象の大局を把握するための、既往地震事例によるRetrospectiveな分析研究でもあった。主題をさらに目的に絞り込むことで一層鮮明な分析が可能となるはずであり、今後の課題である。

他方、視点を変えて「特定の地震、少数の地震」にしか出現しない一報告されない一ような[中～低頻度&中～低共起度]のKeywords群に注目した分析もあっていいし、その結果として地震間の“隠れた差違”が浮上してくる可能性もある。希望的には、今後の地震で問題化する「人間被害」事象のシード発見に繋がる期待も少なからずある。現状のRetrospective限定の分析研究を越え、Perspectiveな情報を抽出するといった分析法を探るための発展研究も視野に入れていきたい。

第2報でも申し添えておいたが、本シリーズの研究はPubMed・医中誌DBがあってこそ可能となる研究である。これらDBの作成・増強を進め、維持・管理の諸作業を鋭意継続しておられる関係機関(米国国立医学図書館、医中誌刊行会)の活動に対して、重ねて深甚の謝意を表明する。文書情報の分析にはText MiningソフトPolarisを活用させていただいた。医学関係の諸知見については和藤幸弘教授(金沢医大)にご教示を賜るところ多大であった。厚くお礼申し上げる次第である。

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付録A : Journal別分析

本論の冒頭—レベル1の処理—でPubMdから抽出された628文献がどのようなJournalに掲載されているかについて調べ、Top5のJournalを識別した。その結果、Top5といえどもJournal名が多彩となっていることから、関連分野の拡がり意外に大きいことを推測した。しかし、それぞれのJournalがどのような分野をカバーしているのか、さらにはJournal間の相互関係についてはほとんど触れていない。ここではTop5のJournalがカバーする領域とそれぞれの関係について若干の考察を行ってみる。その上で、関連分野の拡がりをあらためて考えてみることにする。さらに補足として、今回抽出された文献の中に現れた「医学関連分野」の学術表記名一覧を末尾に示しておく。以下、手順の簡単な説明と結果を掲げておく。

1. 準備

628の文献のうち、Top5のJournalに掲載されたもの—総数129—を選び、Journal別かつ文献別にKeywordsを仕分けた上でレベル2および3のText Miningを実施した。レベル2の分析としてはJournal間相互のKeywords群の出現状況をそのまま比較した。しかし、レベル3の分析には若干の事前準備が必要となる。本論で地震間対比分析の項で述べたように、対比分析に先立って対象となるグループ毎のKeywords群の総数を揃えておく必要がある。これは今回適用のText Mining Toolがtf (Term Frequency) を主たる指標とした分析法であることから、文献数（そしてKeywords数）の大きく異なるグループをそのまま直接比較すると所与の結果に到達し得ないからである。ここで対象とするTop 5のJournal別文献数は [51, 25, 20, 13, 10] であり相互に大きな違いがある。したがって、望ましいのはJournal別文献数の公倍数を求め、それを倍率係数とする“割り増し”を行った上で分析を実施することである（本来Journals別のKeywords数で割増しすべきであるが、本論で調べてあるように文献毎のKeywords数が [22個/文献] とほぼ一定であり、文献数比較で代用できる）。このことを念頭におき、ここでは各Journal別の文献数に倍数 [2, 4, 5, 8, 10] を掛けることで、大よ100の公倍数に近似できる。すなわち、Journal別の文献数を見掛け上同一とする、このような調整を計った上で分析を進めた。

2. 結果

1) レベル2の分析処理

通常の基礎統計的処理である。まずTop 5 Journalについて文献毎に [Journal名, Keywords] を付表1(a)の形で準備する（文献は総数119ある。文献別のKeywords数は数個から数10個とまちまちである。ここでは付表の一部のみを掲げてある）。次いで、文献別のKeywords度数分布を作成する。

付表 1 (a) Journal別のKeywordsの事例

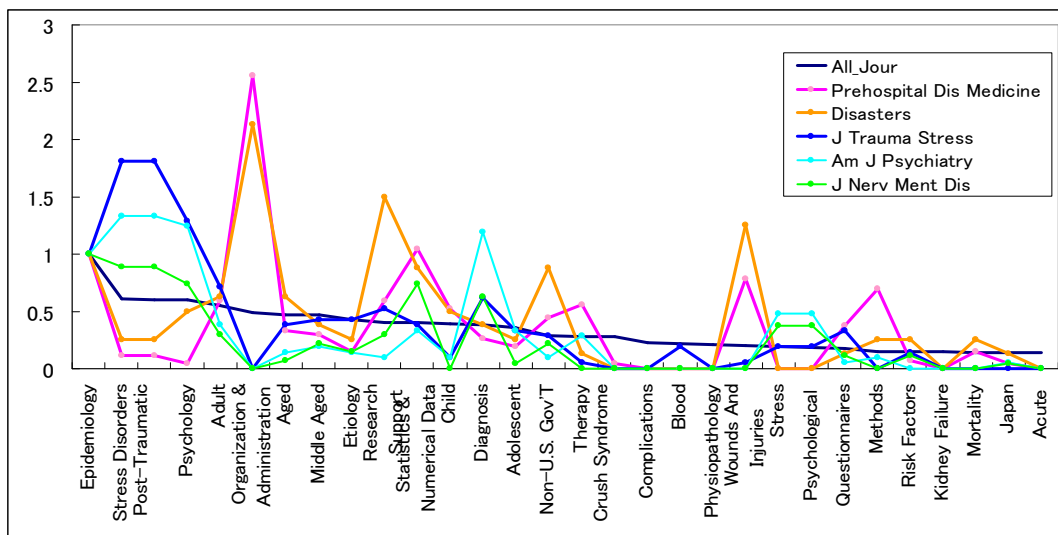
PubMed ID	Journal	Keyword
16946288	Acad Emerg Med	benchmark *organizats, Hospital J Capacity y / *statis Humans Research nited State
17015413	Acad Emerg Med	Bioterrorisces / *orgi/ *organizpital / orgapital / *statal Bed Ca; Humans tural Disas
12568449	Accid Emerg Nurs	unification B Military / i *organizatPackaged // *organiz Humans Hygiene tional Coop
16480465	Acta Anaesthesiol Scand	*Anesthesi Female Humans Male tural Disas Thailand
1414256	Acta Neurol Scand	Adult Aged Female ree Radical Humans xidation / * Male Middle Age
8775559	Acta Paediatr Jpn	Adolescent Child Female Humans Japan Male Middle Age Mortality
8775561	Acta Paediatr Jpn	nunity Netvaster Plannyc Medical Humans ant, Newbc Care Units Japan tural Disas
8775562	Acta Paediatr Jpn	I Health Seomunicatncy Medical Humans ant, NewbcCare Units Japan tural Disas
8775563	Acta Paediatr Jpn	Child sabled Pers Humans Japan tural DisasRelief Worlcial Support
8775564	Acta Paediatr Jpn	Child Emergencieipment Fai Female Humans Japan Male tural Disas
8775565	Acta Paediatr Jpn	Child ild, Preschamilly Healt Female Humans Japan Male Mental Heal
2788351	Acta Psychiatr Scand	Disorders / Adolescent Adult Aged sorder / epSectional Disorder / *Disasters
7810346	Acta Psychiatr Scand	Adult ia / epidenjan / epide statistics Sectional ; Female Humans Incidence
8831865	Acta Psychiatr Scand	Adolescent Adult Aged id, 80 and c Child Humans Japan Middle Age
10892611	Acta Psychiatr Scand	Adolescent Adult ia / epiden-Control Staster Plan Services, Female ow-Up Stu
12558537	Acta Psychiatr Scand	cute Disea; Female Humans Classificatic Male Middle Age tural Disasupport, Nor
12890279	Acta Psychiatr Scand	Adolescent Adult Aged id, 80 and quare DistrAnalysis, St Female Humans
16279873	Acta Psychiatr Scand	Adult Aged Female Humans Incidence Male Middle Age tural Disas
16889590	Acta Psychiatr Scand	Adolescent Adult Aged id, 80 and sorder, Majorder, Majororder, Majc Female
9332253	Acta Radiol	cute Disea; Adult Aged Biopsy osis / diaglcium / blparative Sndrome / *
10829329	Addiction	inking / epDrinking / ysis of Vari Factors (E Culture Humans 1 / epidemital Disas
11045289	Adv Perit Dial	Adult Child Female Humans Male tural Disasitoneal Dialsis, Contin
12879368	Adv Ren Replace Ther	Armenia rome / co *organizatervice Corices / orga Humans lure, Acute lure, Acute
12879369	Adv Ren Replace Ther	/*organizaster Plan Europe ilt Resour Humans India i; /*organizidney Disea
11073347	Aging (Milano)	ies of Daily Aged g / *physicg / *psychEnvironmer Family Female ealth Statu
9398112	Am Heart J	Aged Female Humans Japan Male Middle Age Infarction tural Disas
10220631	Am Heart J	ria / epidenparative Sow-Up Stu;ongestive statistics Humans Incidence farction / *
8651102	Am J Cardiol	ria / epide; Humans Incidence farction / * Infarction tural Disasitological / complicatio
11152854	Am J Cardiol	Adult Aged ous Systediography, / Female *Heart Ratu Humans Male
9270397	Am J Emerg Med	Humans Japan Rescue Woy Protectivn / *poiso *Violence

付表 1 (b) Journal別のKeywordsの出現度数表

Key Words	All 628 Papers	Prehospital Dis Med	Disasters	J Trauma Stress	Am J Psychiatry	J Nerv Ment Dis
Epidemiology	491	27	8	21	21	27
Stress Disorders	300	3	2	38	28	24
Post-Traumatic	296	3	2	38	28	24
Psychology	294	1	4	27	26	20
Adult	271	16	5	15	8	8
Organization & Administration	242	69	17			
Aged	233	9	5	8	3	2
Middle Aged	229	8	3	9	4	6
Etiology	210	4	2	9	3	4
Research Support	197	16	12	11	2	8
Statistics & Numerical Data	197	28	7	8	7	20
Child	192	14	4	2	2	
Diagnosis	185	7	3	13	25	17
Adolescent	176	5	2	7	7	1
Non-U.S. GovT	141	12	7	6	2	6
Therapy	138	15	1	1	6	
Crush Syndrome	138	1				
Complications	114					
Blood	106			4		
Physiopathology	103					
Wounds And Injuries	99	21	10	1		
Stress	92			4	10	10
Psychological	87			4	10	10
Questionnaires	83	10	1	7	1	3
Methods	76	19	2		2	
Risk Factors	75	2	2	3		3
Kidney Failure	75					
Mortality	71	4	2			
Japan	70	1	1		1	1
Acute	70					

(To be continued)

これが付表 1(b)である。これにもとづき、Journal 別に「個々の Keywords 度数/最頻 Keywords の度数の相対出現度数を算定し、グラフ化する。このうち上位 30 個の Keywords についてみたのが付図 2 である。

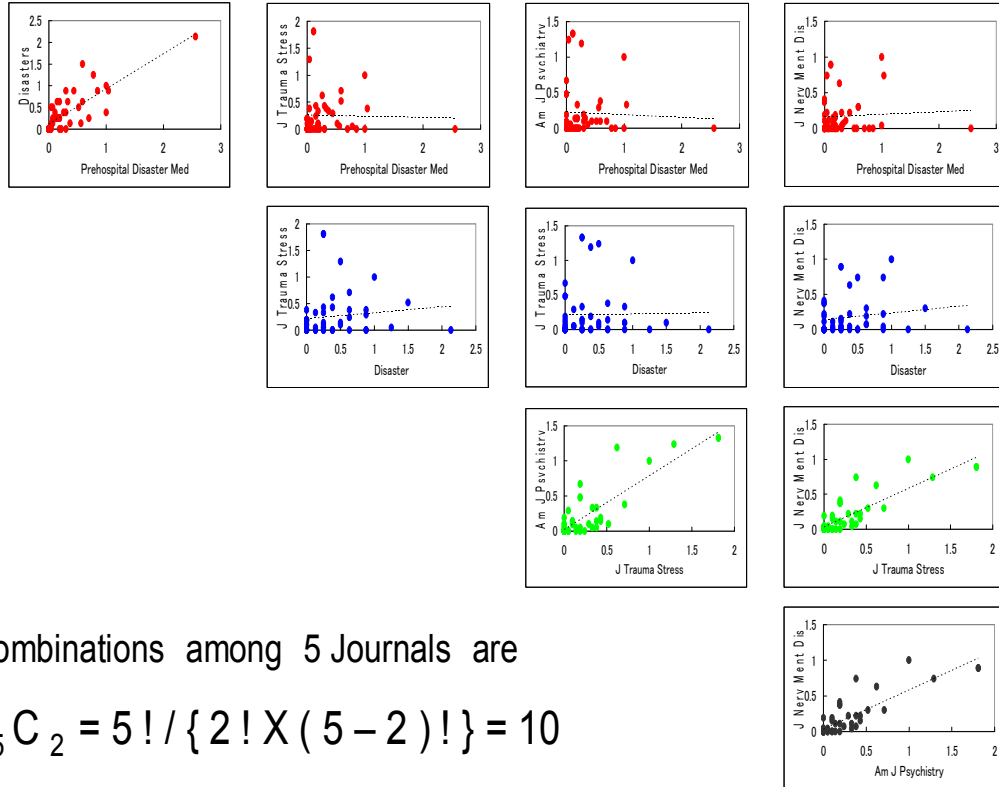


付図 2 Journals 別にみた Keywords の「相対」出現度数分布。

図中の黒色のカーブは全 Journal による相対出現数であり、Keywords 出現のいわば基準度数カーブに相当する。したがって、個々の Journal に注目すると、Keywords によっては基準カーブと上あるいは下へ大きくズレた相対度数を示すものがある。ある Journal で上側へ突出する Key word があれば、それに相当する内容がその Journal における重要度を示唆したものとみれる。基準カーブを下回る場合は逆に重視されていないことを意味する。このような見方で Journal 毎の特徴を捉えることが出来る。暖色系で示した Journal 群 [Prehospital Disaster Medicine, Disasters] と寒色系 Journal 群 [J Trauma Stress, Am J Psychiatry, J Nerv Ment

Dis] との差違が際だっているようにみえる。

次に、Journal 間の Keywords 出現の相関関係を見るために付図 3 を作成した。これは複数の Journal の組み合わせの全部 (10 組) についてみたものである。また、その結果の相関係数 (の 2 乗) マトリックスを



Combinations among 5 Journals are

$${}_5C_2 = 5! / \{2! \times (5-2)!\} = 10$$

付図 3 Journal 間の Keywords 出現度数間関係。相関の高いものと低いものが混在。

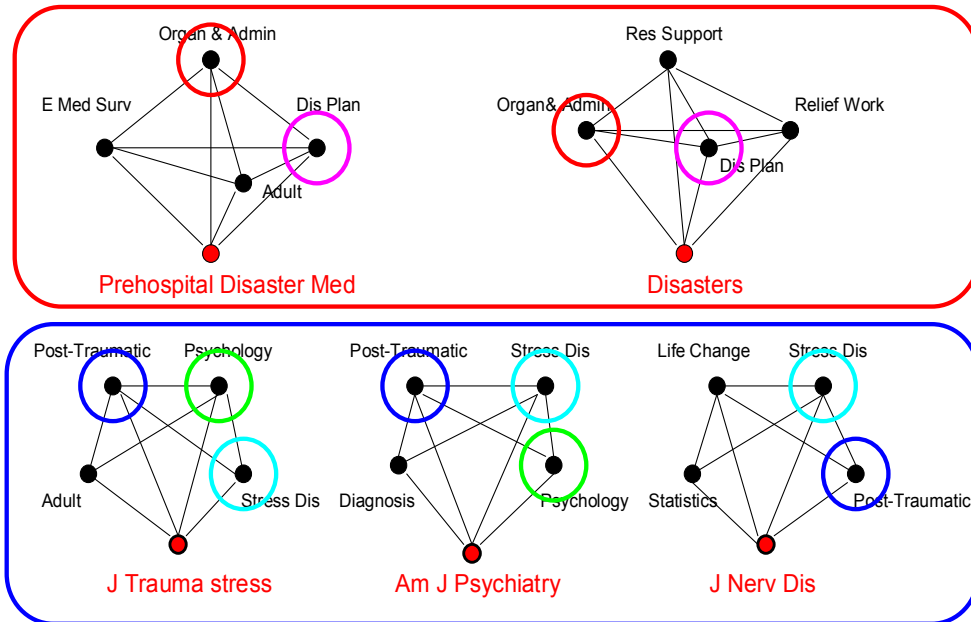
付表 2 に示す。これらから、[Prehospital Disaster Medicine, Disasters] の組が高い相関関係にあることがはっきりと判る。同様に[J Trauma Stress, Am J Psychiatry, J Nerv Ment Dis] の 3 者間の高い相関も明瞭である。以上から、今回取り上げた Top 5 の Journal が大きく 2 群に分類されることがあらためて確認された。

付表 2 Journal間の相関係数 (R²) 行列一覧表

	Prehospital Disaster Med	Disasters	J Trauma Stress	Am J Psychiatry	J Nerv Ment Dis
Prehospital Disaster Med	1.00	0.64	-0.02	-0.04	0.03
Disasters		1.00	0.11	0.02	0.10
J Trauma Stress			1.00	0.75	0.73
Am J Psychiatry				1.00	0.73
J Nerv Ment Dis					1.00

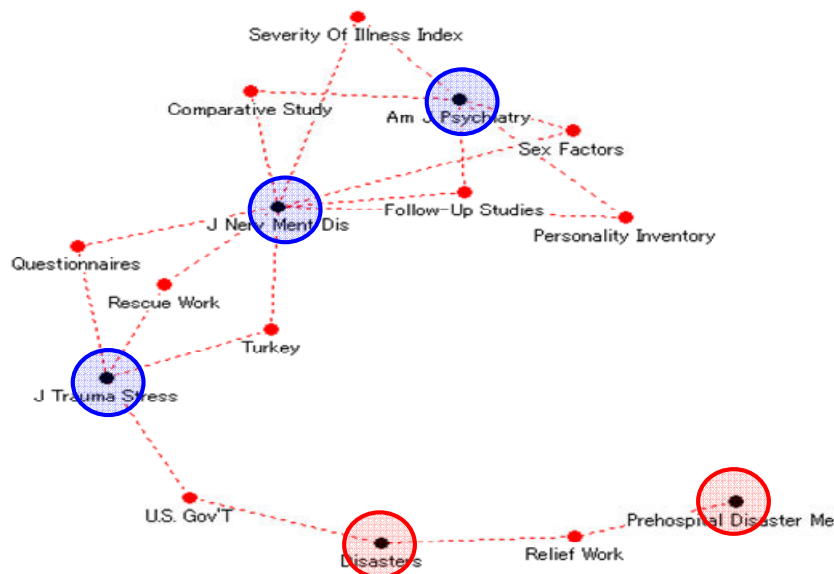
2) レベル3の分析処理

次に Polaris を援用することで、レベル 3 の処理を行い、Journal 間関係を詳しく調べてみる。まず、Journal 別の最重要 Keywords (●) を 5 個に限定して Key Graph を描き、同一 Keywords をマークしてみた。これが付図 4 である。ここでもレベル 2 でみた [暖色系, 寒色系] の 2 群が的確に識別されること判然としている。同時に各群内の高い共通性が伺われる。



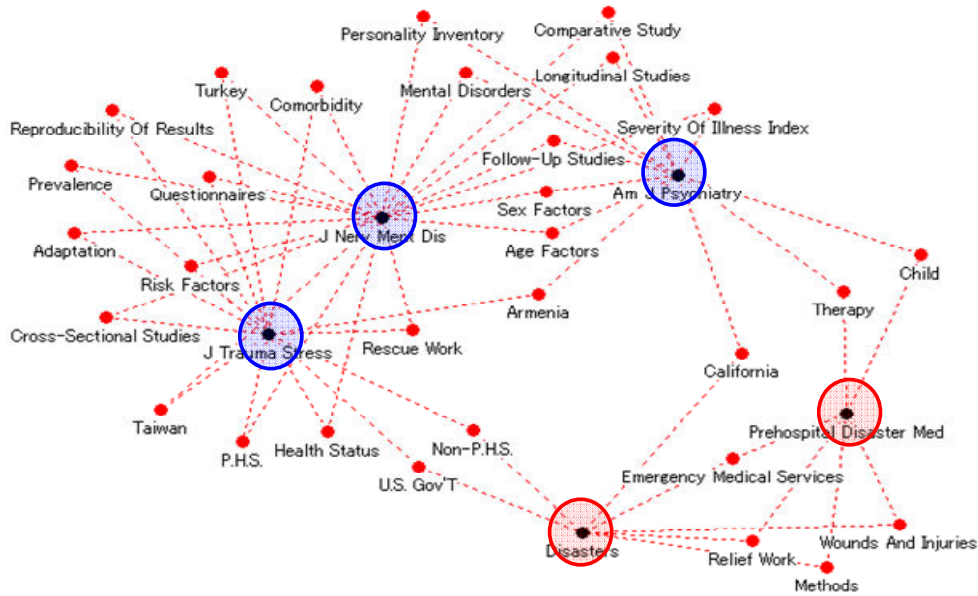
付図 4 Journal 間の最重要 Keywords 間関係。大きく 2 群に分かれ、他方群内の共通性が高い。

ここで、本論におけるように Keywords 群を 2 段階 [●・・・重要度高い, ●・・・重要度低い] に分け、かつ (●) 5 個を Top 5 の Journal 名に固定したまま (●) の個数を順次増やしながら Journal 間結合関係をみる。結果を付図 5 (a), (b), (c) に示す。付図 5 (a) では暖色系 [Prehospital Disaster Medicine, Disasters] と寒色系 [J Trauma Stress, Am J Psychiatry, J Nerv Ment Dis] の 2 群識別が明瞭にみられ、また 5 Journal 間の相互関係が的確に読み取れる。それらは [Prehospital Disaster Medicine, Disasters, J Trauma Stress, Am J Psychiatry, J Nerv Ment Dis] の一列配列を思わせる関係にみえる。



付図 5 (a) Journal 間関係。Journal 間を (●) を順次増やしながら結合関係をみる [(●) 10 個]。

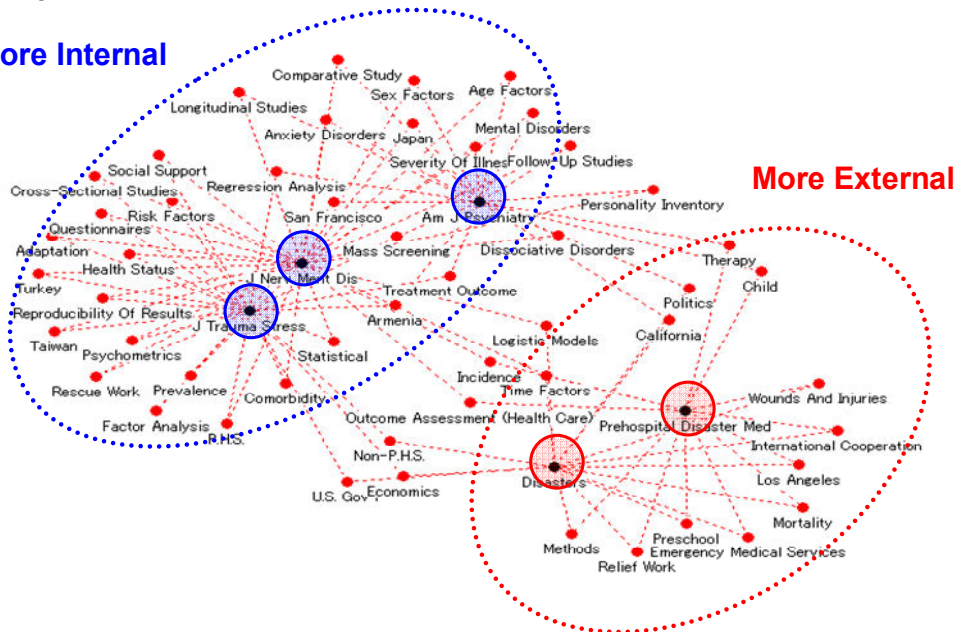
付図 5 (b) のように (●) を 30 個に増やしても上記の関係は変わらない. それぞれの Journal が下位にもつ Keywords 群が追加されるのみである. ただ, 付図 5 (a) では両端にあって何らの繋がりをみせなかった [Prehospital Disaster Medicine, Disasters; J Nerv Ment Dis] がいくつかの (●) を介して結合関係にあることを示しており, 興味深い.



付図 5 (b) Journal 間関係. Journal 間を (●) を順次増やしながらか結合関係をみる [(●) 30 個].

MaMa[5-30-50-0]

More Internal



付図 5 (c) Journal 間関係. Journal 間を (●) を順次増やしながらか結合関係をみる [(●) 50 個].

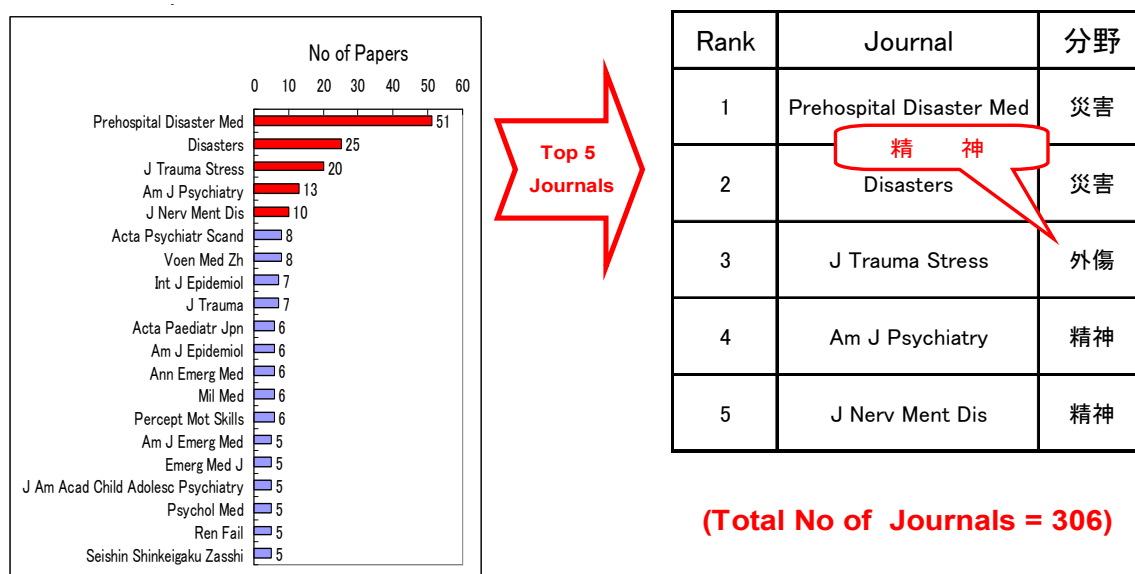
付図 5 (c) はさらに (●) を 50 個まで増やした場合であるが, 全体傾向の大きな変化はない. 先に述べた 2 群の識別がさらにハッキリし, 各 Journal が内蔵する諸事項 (Keywords 群) が数多く浮上する様子が明らか

かである。それぞれを注意深くみることで、寒色系の Journal 群が内科的・精神医学的な面から地震に伴う人間被害を扱い、暖色系のそれは外科的ないしは救急医学的視点に立った文献群を集録していることが一層確信できる。特に注意すべきは Journal [J Trauma Stress] が当初の想定と違って、むしろ精神医学的側面が強い文献を集録していることである。地震直後の種々の外傷を起点として発症する、「外傷後ストレス不全 Post Traumatic Stress Disorder, PTSD」等は当該 Journal の中心課題となっているものと思われる。

以上の考察から

- ・ Top 5 Journal に集録された文献は大きく [内科的, 外科的] なものに2大区分されている。それぞれ [Prehospital Disaster Medicine, Disasters] と [J Trauma Stress, Am J Psychiatry, J Nerv Ment Dis] である。
- ・ Journal [J Trauma Stress] はそれ自体が内科・精神科に主力をおくものの、外科・救急医学的 Journal 群との中継ぎの役割をもったものと位置付けられる。

のように結論できる。したがって、本論の第3図は以下のように変更される。



付図6 本論の第3図の改訂版。

このようにして、J Trauma Stress の日本語による当初の説明が早計に過ぎたことが判明し、本論で「外傷」と書いたところが「精神」に置換される。

なお、Top 5 Journal の正式名は以下の通りである。

- ・ Prehospital Disaster Med: Prehospital and Disaster Medicine
- ・ Disasters : Disasters
- ・ J Trauma Stress: Journal of Trauma Stress
- ・ Am J Psychiatry: The American Journal of Psychiatry
- ・ J Nerv Ment Dis: The Journal of Nervus and Mental Disease

3. 医学関連学術名称区分 (Branches of Medicine) でみる関連分野

通常のワードプロセサーがもつ「検索」機能を使うことで簡単に調べられる。以下の資料・手順で実施した。

- ・ 資料：今回抽出した 628 文献のすべて [タイトル, 抄録, Keywords 群] を原 Data とする。
- ・ 手順：資料から名詞群を取り出し語尾が [-logy, -cs, -ry] 等々をもつ単語を抽出する。その上で、医学関連分野に属すると思われるものを手作業で選別し、出現頻度別に整理する。

結果を付表3に示しておく。ここでは関係領域の上下関係等一例えば [Psychology- Adolescent Psychology ; Physiology-Nervous System Physiology] 等々に拘わらず、出現頻度の降順に1次元(列)配列としており、簡単に過ぎる結果ではあるが、これらを通覧するだけでも意外の拡がりをもつことが理解できるであろう。中でも [Epidemiology , Psychology] の2語が重要語句の双璧をなすことは本論でしばしば見たところであるが、この表でも出現頻度が突出している。次いで [Etiology, Physiopathology, Physiology] を併せて Top 5 の関係領域が構成される。Surgery (外科学) の6位は少々意外な感じをもたせたが、伝統地震工学関係者の人間被害への視野が狭かったことの現れかも知れない。

なお、これらの出力結果を新たな資料としてさらに種々の考察が可能になることと思われるが、今後の課題として受け止めておきたい。

付表3 文献にみる医学関連学問分野

No	English Name	日本語名称	Frequency
1	Epidemiology	疫学(医生態学)	491
2	Psychology	心理学	431
3	Etiology	病因論学(疫学)	210
4	Physiopathology	生理病理学	103
5	Physiology	生理学	54
6	Surgery	外科学	44
7	Immunology	免疫学	25
8	Microbiology	微生物学	22
9	Pathology	病理学	15
10	Psychometrics	心理計測学	10
11	Nursing	看護学	7
12	Genetics	遺伝学	6
13	Adolescent Psychology	青年心理学	5
14	Enzymology	酵素学	3
15	Forensic Anthropology	法医学的人類学	3
16	Nervous System Physiology	神経系生理学	2
17	Parasitology	寄生(虫)生物学	2
18	Dermatology	皮膚科学	2
19	Anatomy & Histology	解剖学&組織学	1
20	Psychophysiology	精神生理学(心理学)	1
21	Neurosurgery	神経外科学	1
22	Biomechanics	生体運動学	1
23	Autopsy	(病理)解剖学	1
24	Psychiatric Nursing	精神看護学	1
25	Psychoneuroimmunology	心理神経免疫学	1
26	Virology	ウイルス学	1
27	Psychophysics	精神物理学	1
28	Psychiatric	精神医学	1
29	Nephrology	腎臓(病)学	1
30	Orthopedics	整形外科	1
31	Neurobiology	神経生物学	1
32	Biophysics	生物物理学	1
33	Psychiatry	精神医学	1

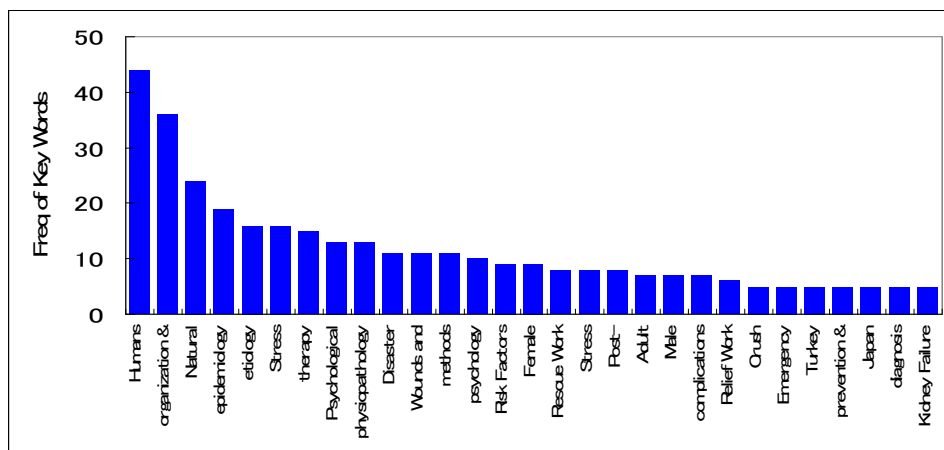
(補足) 医学分野の分類法は多様であるが、[基礎医学, 社会医学, 臨床医学] に3大区分する考え方がある [Wikipedia]。付表3にリストされた領域はこれら3者の全てにわたっている。

付録B：著者別分析

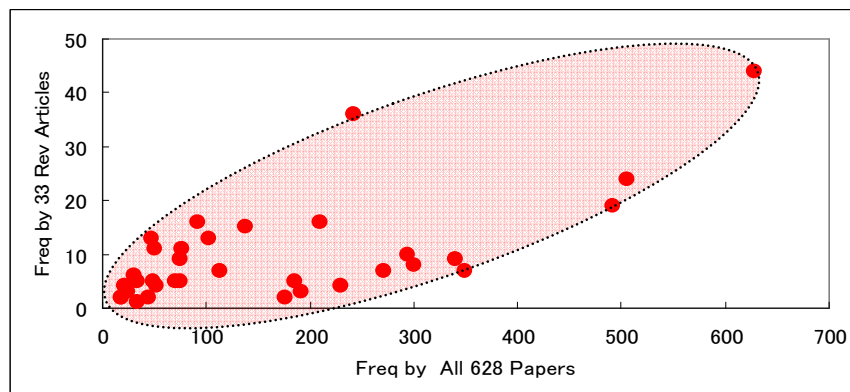
今回PubMedから抽出された628文献の中の40余りは“Review Article”としてタグが付けられている。周知のようにReview Articleはある主題についてそれ以前に発表された論文を整理・総括し、以降への展望を試みる形で構成されるものが多い。したがって、引用・参照文献のかなり大きなリストをもっていることが普通である。そうだとすれば、この引用文献リストを活用することで著者間の関係（重要著者、研究者グループ等の識別、重要課題とその推移）等々について、本論と同じ方法で分析を進めることができる。分析に関わる僅かな違いは、文献内容を代表する指標として本論ではKeywords群を使ったが、これらを引用著者群に置き換えることだけである。以下、手順の説明と結果のいくつかを掲げておく。

1. 準備

抽出された40余りのReview Articleの全てについて「地震に伴う人間被害」を論述した論（説）文であるかどうかを[タイトル, 抄録, Keywords]等にもとづき識別し、数編を排除した。その上でFull Textの入手に努め、33編を得た（親DBであるPubMedにFree download Availableとあるもの—かなり少ない—以外は国内の図書館連携による文献複写システムを活用した）。その上で、この33編が関連分野のどのような拡がりカバーしているかについて、Keywords群を調べることでチェックした。付図1(a)にReview Articleに付随するKeywords群の度数分布を掲げておく。



付図1(a) Review Article (33編) のKeywords度数分布 (上位30個)。



付図1(b) 628文献とReview Article (33編) のKeywords出現度数比較。

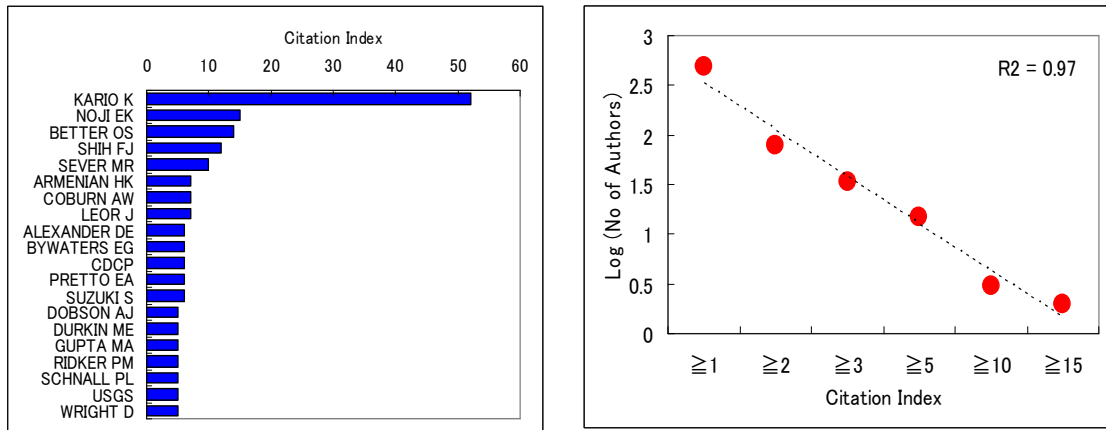
次いで、全628文献のKeywords群と33 Review ArticleのKeywords群間の出現度数の相対関係を比較するため、付図1 (b) を作成した。両者は非常に高い比例関係にありとまではいえないが、相関係数は0.66となっており、Review ArticleがもつKeywords群が全文献のそれ等を相当程度カバーしていることを思わせる。そこで、この33編のReview Article毎の引用著者リスト—第1著者のみに限定—を作成し、Text Mining (レベル3) 実施のための原資料とした*。各Review Articleが引用する文献数は極端に少ないもの—数編—を除けば、20~50編の場合が多く、100編以上を引用したものもある。結局、33編のReview Articleの総計で1,000に近い引用文献数となっている(引用文献の第1著者数でもある)。このようにして得た引用著者リストの一部を付図2に掲げておく。また、末尾にReview Articleリストを載せておく。

付表1 Rev Article別の引用著者リスト (一部)

Rev.1	LEE GC	EERI	WANG LM	CHEN KT	LIAO YH
Rev.2	NOJI EKK	PRAGER EJ	HAYS WW	PEREZ E	*US GEOL SURV
Rev.3	CANADA	ZAPP R		CANADA	KIEFER L
Rev.4	US GEOLOGICAL SURVEY	BARBERA J	NOJI EK	ARMENIAN H	DURKIN M
Rev.5	LAM DM	MACNAB AJ	LAM D	ARGYROS G	AUSTIN TK
Rev.6	THE NATIONAL DISASTER	DUMAN H	KOBE CITY FIRE BUREAU	MOSZYNSKI P	ARMENIAN HK
Rev.7	USGS	USGS	USGS	WIKIMEDIA	WIKIPEDIA
Rev.8	BLANCO JR	CERNY Z	CHOI E	CRISTOVA I	DENNIS DT
Rev.9	*AM PSYCH ASS	AGLE DP	AGLE DP	BALKRISHNAN R	BAYRAMGURLER D
Rev.10	PEPE E	BETTER OS	BYWATERS EGL	BYWATERS EGL	ZAGER RA
Rev.11	ACEVES RL	ALLEN CR	ALLEN CR	ANDREWS R	BAK P
Rev.12	ALLEN MT	ARITA M	BAREFOOT JC	BENHORIN J	BERG K
Rev.13	ARMENIAN HK	BETTER OS	BETTER OS	BETTER OS	BETTER OS
Rev.14	ADAMS RD	BETTER OS	BYWATERS EGL	CISTERNAS A	COLLINS AJ
Rev.15	MEISEL SR	LEOR J	DOBSON AK	TRICHOPOULOS D	SUZUKI S
Rev.16	CALLAHAN MB	CHATTERJEE SN	CLARK MJ	COHEN RE	DEMI AS
Rev.17	*CA SEISM SAF COMM	ALEXANDER DE	ARMENIAN HK	ARMENIAN HK	COBURN AWW
Rev.18	ANTONOVSKA A	ATRENS DM	BELL PA	BROSSCHOT JF	CHARMAZ K
Rev.19	KLAIN M	SAFAR P	*AM COLL SURG COMM	SAFAR P	SAFAR P
Rev.20	*REG EM MED COUNC	*HOAG MEM HOSP	*METTAG		
Rev.21	TRICHOPOULOS D	DOBSON AJ	KLONER RA	KARIO K	KARIO K
Rev.22	GUNN SWA	PAN AMERICAN HEALTH	CANKER M	SMITH GS	GUHA-SAPIR D
Rev.23	ARMENIAN HK	ATEF MR	BABA S	BETTER OS	BETTER OS
Rev.24	BURAVKOV SV	DORAN J	KIRTAVA Z	HOLLOWAY H	SCRENCI D
Rev.25	CRIPPA L	HOUGAKU H	KARIO K	KARIO K	KARIO K
Rev.26	ADAMS W	ALONSO R	ALONSO SJ	ARNOLD AP	ARNOLD AP
Rev.27	DOBSON AJ	ESTIVALS M	GOENJIAN AK	JANSSON JH	JIANG W
Rev.28	WDLNFELS M	NINTH WORLD CONGRESS	GAYDOS JC	GOMA EPIDEMIOLOGY GR	EDITORIAL
Rev.29	*UN DRA GEN	FUJIMOTO M			
Rev.30	*UNCRD	JANCEVSKI J	WAKABAYASHI M	*PARTN REINS CO	COBURN AW
Rev.31	BABA	SIATOH Y	SCHULTZ CH	WAECKERLE JF	YAMAMOTO M
Rev.32	*STAT INF DEP MIN	BOLIN R	OKAMOTO Y	RAPHAEL B	SHIOZAKI Y
Rev.33	AGU	ALEXANDER DE	ALEXANDER DE	ALEXANDER DE	ALEXANDER DE

* 若杉亮平 (愛知淑徳大学大学院図書館情報学院生) に協力いただいた。

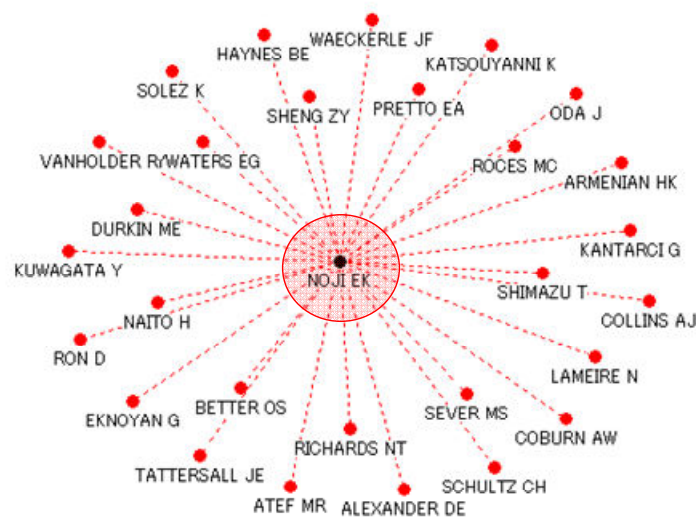
付図2は引用度の高いTop 20のSatar著者群の度数分布図（左側）と引用 [著者数 : 度数] がベキ乗のかなりキレイな関係（右側）にあることを示す。



付図2 左側：Top 20の著者群，右側：[引用著者数 : 引用回数] の対数直線関係。

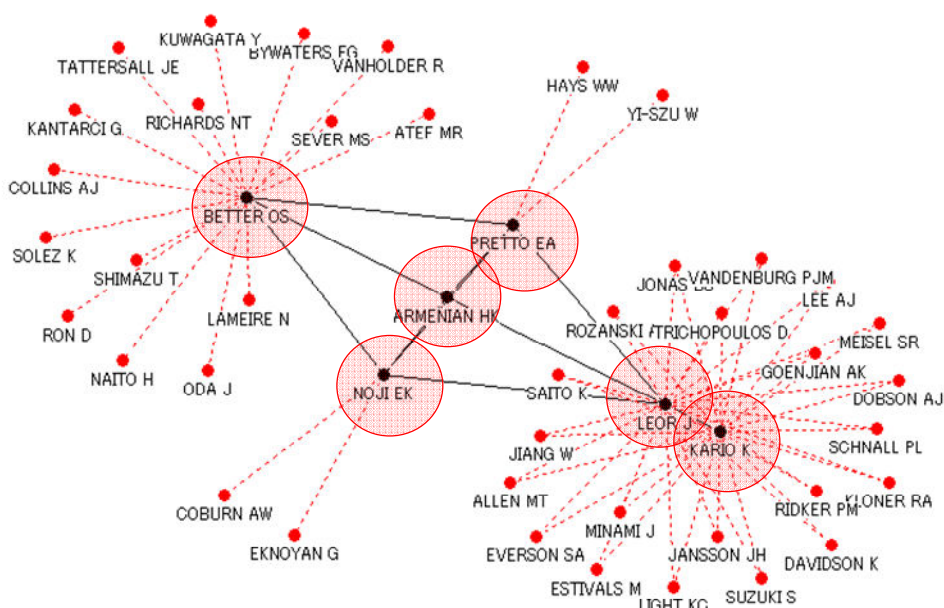
2. 分析と結果

Text Mining ソフト “Polaris” を適用する。まず、黒丸を1点のみとした場合の結果を付図3に示す。このとき中心核に位置する引用著者が、当該Review Articleの枠内でみた場合に影響度が最も高い著者であり、特等星著者 (Top First Magnitude Star Author) に相当する。Eric NOJIである[†]。彼とそのグループは1988年Armenia地震を契機として多面的な調査研究を開始しており、関連分野の在るべき姿を探求し、本格研究の先駆者グループとして受け止められ、必然高い引用数を誇っている。付図3はこのことを反映した結果に他ならない。



付図3 特等星著者（中心核）と他の引用著者群。

[†] 1988Armenia 地震について救急医学的観点に立つ精力的な調査研究を行い、先駆的な論文を多数発表した。また、単行本 “The Public Health Consequence of Disasters, New York, Oxford University Press, 1997” を発刊し、災害医学の体系化に努めた。これらが高い引用数をもたらしたと思われる。



付図4 1等星著者群（黒丸6個）と他の引用著者群.

次に黒丸を6個（1等星著者というべきか）とした場合の事例を付図4に示す. これから, 引用著者群一したがって, 関連分野一が大きく2分されていることがハッキリみえる. 図の右下部の, 1等星著者 [Kario, Leor] を核とする1群と左上部の1等星著者 [Better OS] を核とする1群である. そして, 両グループを繋ぐ, 橋渡しの役を担う1群がある [1等星著者はNoji, Armenian HK, Retto]. なお, それぞれの群の文献がもつKeywordsに戻ってみると右下のグループが地震に伴う血液・循環器系疾患を扱い, 左上のグループがその他の, 例えば腎臓等疾患を中心においたグループとなっていることが判る. 中間に位置する1群は救急医療 (Prehospital) を軸とし, また関連の感染症等 (Epidemiology) を扱っており, 両者の橋渡しの役割をもっていることが判る[‡].

[‡] Noji EK と赤ラインで接続する著者の1人 Coburn AW は Spence CR と共著で単行本“Earthquake Protection, John Wiley and Son, England, 1992 ” を出版しており, 引用度の高いものとなっている.

Review Article 33 編のリスト

(番号の次の8桁の数字はPubMed IDである. 全文献628編の中から“Review Article”を検索語として抽出されたもののうち, Full-textが入手できたものの全てである. 参考までに邦文仮訳を付けておいた)

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付録C：原著文献リスト

[I]Articles dealing with A Single Earthquake [435件]

検索・抽出された628件のうち「地震が発生した，または激甚被災域となった国（地域）が確定でき，さらに特定の地震による人間被害を記述した」文献[総数435件]について[国（地域）－地震]別に区分し，排列している．

■Top 5 Countries / District

・Japan	96
・Turkey	83
・U S A	63
・Armenia	47
・Taiwan	43

■Top 6-10 Countries/Districts

・Indian Ocean Tsunamis	21 (*)
・Iran	13
・Italy	9
・Greece	9
・China	7
(*) [Indonesia, Thailand, Sri Lanka]	

■Other Countries/Districts

・Mexico	6
・Australia	6
・El Salvador	6
・India	5
・Pakistan	5
・Guatemala	3
・Russia	2
・S America	6
・Others	5

※ [国（地域）別No, PubMed ID, 著者, 論文名, 雑誌名, 巻（号）, ページ, 出版年]の順で記載されている。(Review Articlesの重複分, ノイズ分は除去してある)

[II]Miscellaneous Articles [123件]

それ以外のもの（複数地震を扱ったものを含む）[文献総数123]文献の出版年順（PubMed ID順）に排列している．

※※ [昇順No, PubMed ID, 著者, 論文名, 雑誌名, 巻（号）, ページ, 出版年]の順で記載されている。(Review Articlesの重複分, ノイズ分は除去してある)

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