

MULLISTAVATKO AVOIMET VIITTAUKSET JULKAISUMETRIIKAN?

Eva Isaksson
Helsingin yliopiston kirjasto (eläkkeellä)
Bibliometriikkaseminaari 12.4.2022

Viittausten varhaista tietotekniikkaa

Garfield, E.
 "Science Citation Index."
 Science Citation Index 1961,
 1, p.v-xvi, 1963.

HOW IS THE SCIENCE CITATION INDEX PREPARED?

For every reference appearing in every article in each source journal a separate IBM punched-card is prepared containing both the source data and the reference data. The punched-cards are subsequently converted to magnetic tapes. The tapes are then sorted and otherwise processed on IBM 1401, 1410, and 7074 computers. The sorted data are printed on an IBM 1403. The master copy is then photographed and reproduced by offset printing.

REFERENCE PUBLICATION POLICIES

Both journal and non-journal citations are processed. Non-journal references are readily identified in the index by a lozenge symbol (◊) at the end of the publication column. Non-journal references include references to books, meetings, dissertations, reports, contracts, patents, circulars, etc. In these first five volumes titles of books or meetings are presented as acronyms. In subsequent volumes acronyms will be replaced by full titles or easily understood abbreviations. Reports and circulars may be identified either by numbers, or, if the reference to the report included a title, by acronym. Dissertations and these are recorded as "Diss." The following is a list of common abbreviations in non-journal citations:

- IP In Press
- PC Private Communication
- TBP To Be Published

U generally means "unpublished" but in the case of Svedberg's book it signifies "Ultra-zentrifuge". To illustrate the acronyms, fuller identification of some well known works is given below.

FREQUENTLY CITED NON-JOURNALS

AEC	ATLAS OF EXFOLIATIVE CYTOLOGY	PAPANICOLAOU GN
AMQH	ANGULAR MOMENTUM IN QUANTUM MECHANICS	EDMONDS AR
BMDB	BERGEYS MANUAL OF DETERMINATIVE BACTERIOLOGY	ANON
BS	BIOCHEMISTRY OF SEMEN	MANN T
STCM	BLOOD TRANSFUSION IN CLINICAL MEDICINE	MOLLISON PL
CBA	CONSTITUTION OF BINARY ALLOYS	HANSEN M
CBH	CHEMICAL BASIS OF HEREDITY	VOGEL HJ
COBH	CHEMICAL DYNAMICS OF BONE MINERAL	NEUMAN WF
CMBA	CHEMICAL AND MOLECULAR BASIS OF NERVOUS ACTIVITY	NACHMANSOHN D
DBS	DIELECTRIC BEHAVIOUR AND STRUCTURE	SMYTH CP
DHBG	DISTRIBUTION OF THE HUMAN BLOOD GROUPS	MOURANT AE
DHC	DISEASES OF THE HEART AND CIRCULATION	WOOD P
DTEDCA	DIAGNOSIS AND TREATMENT OF ENDOCRINE DISORDERS IN CHILDHOOD AND ADOLESCENCE	WILKINS L
E	ENZYMES	DIXON M
EA	EXPERIMENTAL ATHEROSCLEROSIS	KATZ LN
EDPR	EXPERIMENTAL DESIGN IN PSYCHOLOGICAL RESEARCH	EDWARDS AL
EFAHB	EPILEPSY AND THE FUNCTIONAL ANATOMY OF THE HUMAN BRAIN	PENFIELD W
EH	ELEKTROPHYSIOLOGIE DER HERZMUSKELFASER	WEIDMANN S
EIIP	ELECTRONIC AND IONIC IMPACT PHENOMENA	MASSEY HS
ES	ELECTROLYTIC SOLUTIONS	ROBINSON RA
ETAM	ELEMENTARY THEORY OF ANGULAR MOMENTUM	ROSE ME
FRS	FREE RADICALS IN SOLUTION	WALLING C
GH	GENETIC HOMEOSTASIS	LERNER IM
HB	HYDROGEN BOND	PIMENTEL GC
HBP	HIGH BLOOD PRESSURE	PICKERING GW
HD	HEMORRHAGIC DISEASES	QUICK AJ
HDIC	HEART DISEASE IN INFANCY AND CHILDHOOD	KEITH JO
HRNMR	HIGH RESOLUTION NUCLEAR MAGNETIC RESONANCE	POPLE JA
HRP	HEMOLYSIS AND RELATED PHENOMENA	PONDER E
HTPH	HISTOPATHOLOGIC TECHNIC AND PRACTICAL HISTOCHEMISTRY	LILLIE RD
ICC	INTERNAL CONVERSION COEFFICIENTS	ROSE ME
IE	IDENTIFICATION OF THE ENTEROBACTERIACEAE	EDWARDS PR
LLLT	LYMPHATICS LYMPH AND LYMPHOID TISSUE	YOFFEY JM

”Viittaukset ovat muodollisia, suoria linkityksiä sellaisten julkaisujen välillä, joilla on keskenään jotain yhtymäkohtia. Viittausindeksi rakentuu näille linkityksille. Se listaa julkaisuja, joihin on viitattu ja tarkentaa, mistä lähteestä nämä viittaukset tulevat. Jokainen, joka tekee kirjallisuushakuja, voi löytää yhdestä tusinoihin uusia julkaisuja tietystä aiheesta, mikäli hänellä tiedossa yksikin julkaisu, johon on viitattu. Ja jokainen näin löydetty julkaisu antaa uusia viitteitä, joiden varassa etsintä voi jatkua. Viittausten indeksointi on yksi sen keskeisistä vahvuuksista.”

Eugene Garfield: *Citation indexing: Its theory and application in science, technology, and humanities*. New York: Wiley, 1979

Kun viittaukset nostetaan keskiöön

Conventional citation



Citation as first-class data entity



Fig. 1 Two different ways of describing citations: as a relation between two bibliographic entities (top), or as an individual first-class data entity in its own right, where the citing entity and the cited entity are among its attributed data

Heibi, I., Peroni, S. & Shotton, D. Software review: COCI, the OpenCitations Index of Crossref open DOI-to-DOI citations. *Scientometrics* **121**, 1213–1228 (2019). <https://doi.org/10.1007/s11192-019-03217-6>

Self-Organized Formation of Topologically Correct Feature Maps

Teuvo Kohonen

Department of Technical Physics, Helsinki University of Technology, Espoo, Finland

Abstract. This work contains a theoretical study and computer simulations of a new self-organizing process. The principal discovery is that in a simple network of adaptive physical elements which receives signals from a primary event space, the signal representations are automatically mapped onto a set of output responses in such a way that the responses acquire the same topological order as that of the primary events. In other words, a principle has been discovered which facilitates the automatic formation of topologically correct maps of features of observable events. The basic self-organizing system is a one- or two-dimensional array of processing units resembling a network of threshold-logic units, and characterized by short-range lateral feedback between neighbouring units. Several types of computer simulations are used to demonstrate the ordering process as well as the conditions under which it fails.

words, we maps but arbitrary abstraction. The principle of self-organizing adaptive Perceptronic feature maps back which objective external situation and sufficient for the system. The principle structure. We assert that

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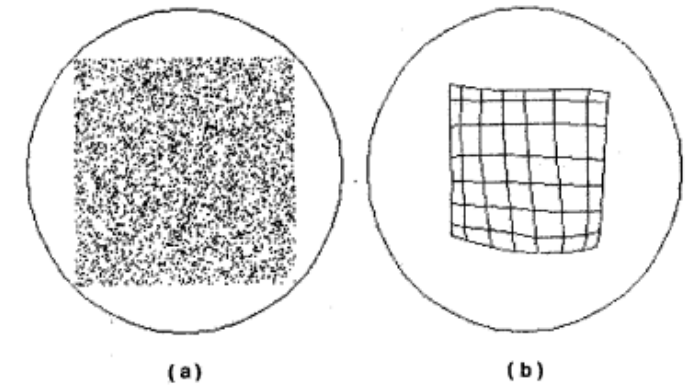


Fig. 10. a Distribution of training vectors used in a simple physical system model. b Distribution of weight vectors m_i after 4000 training steps

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Willshaw, D.J., Malsburg, Ch. von der: How patterned neural connections can be set up by self-organization. *Proc. R. Soc. B* **194**, 431–445 (1976)

Willshaw, D.J., Malsburg, Ch. von der: A marker induction mechanism for the establishment of ordered neural mappings; its application to the retino-tectal problem. *Phil. Trans. R. Soc. Lond.* **B287**, 203–243 (1979)

Wilson, H.R., Cowan, J.D.: A mathematical theory of the functional dynamics of cortical and thalamic nervous tissue. *Kybernetik* **13**, 55–80 (1973)

Received: July 25, 1981

Prof. Dr. Teuvo Kohonen
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Helsinki University of Technology
SF-02150 Espoo 15
Finland



ARTIKKELI

Self-organized formation of topologically correct feature maps

Kohonen, Teuvo

Biological cybernetics, 1982, Vol.43 (1), p.59-69

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Viitteet






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- Referenced in **4** policy sources
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- Referenced in **3** Wikipedia pages
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SIVU 1 800 Tulokset




1  TEKSTIAINEISTO    

The COSMOS2015 galaxy stellar mass function: Thirteen billion years of stellar mass assembly in ten snapshots
 Davidzon, I. ; Ilbert, O. ; Laigle, C. ; Coupon, J. ; McCracken, H. J. ; Delvecchio, I. ; Masters, D. ; Capak, P. ; Hsieh, B. C. ; Le Fèvre, O. ; Tresse, L. ; Bethermin, M. ; Chang, Y.-Y. ; Faisst, A. L. ; Le Floch, E. ; Steinhardt, C. ; Toft, S. ; Aussel, H. ; Dubois, C. ; Hasinger, G. ; Salvato, M. ; Sanders, D. B. ; Scoville, N. ; Silverman, J. D.
 Astronomy and astrophysics (Berlin), 2017-09, Vol.605, p.A70
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2  ARTIKKELI     

Smart Electricity Meter Data Intelligence for Future Energy Systems: A Survey
 Alahakoon, Daminda ; Xinghuo Yu
 IEEE transactions on industrial informatics, 2016-02, Vol.12 (1), p.425-436
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3  ARTIKKELI     


Single cell transcriptome analysis of human, marmoset and mouse embryos reveals common and divergent features of preimplantation development
 Boroviak, Thorsten ; Stirparo, Giuliano G. ; Dietmann, Sabine ; Hernando-Herraez, Irene ; Mohammed, Hisham ; Reik, Wolf ; Smith, Austin ; Sasaki, Erika ; Nichols, Jennifer ; Bertone, Paul
 Development (Cambridge), 2018-11-01, Vol.145 (21), p.dev167833
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4  ARTIKKELI     


Interpretable Deep Learning for Spatial Analysis of Severe Hailstorms
 Gagne II, David John ; Haupt, Sue Ellen ; Nychka, Douglas W. ; Thompson, Gregory
 Monthly weather review, 2019-08-01, Vol.147 (8), p.2827-2845
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SIVU 1 13 Tulokset

1  ARTIKKELI     




Topographic organization of nerve fields
 Amari, S
 Bulletin of mathematical biology, 1980, Vol.42 (3), p.339-364
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2  ARTIKKELI     

Tonotopic organization in auditory cortex of the cat
 Reale, Richard A ; Imig, Thomas J
 Journal of comparative neurology (1911), 1980-07-15, Vol.192 (2), p.265-291
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A mathematical theory of the functional dynamics of cortical and thalamic nervous tissue
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 Biological cybernetics, 1973-09, Vol.13 (2), p.55-80
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4  ARTIKKELI     

Self-organization of orientation sensitive cells in the striate cortex
 Malsburg, Chr
 Biological cybernetics, 1973, Vol.14 (2), p.85-100
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5  ARTIKKELI     

Changes in the circuitry of the kitten visual cortex are gated by postsynaptic activity
 RAUSCHECKER, J. P ; SINGER, W
 Nature (London), 1979-07-05, Vol.280 (5717), p.58-60
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Biological Cybernetics • Volume 43, Issue 1, Pages 59 - 69 • January 1982

Self-organized formation of topologically correct feature maps

Kohonen, Teuvo

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^a Department of Technical Physics, Helsinki University of Technology, Espoo, Finland

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Darko, A.P. , Liang, D. (2022) *Expert Systems with Applications*

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Maniriho, P. , Mahmood, A.N. , Chowdhury, M.J.M. (2022) *Future Generation Computer Systems*

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SELF-ORGANIZED FORMATION OF TOPOLOGICALLY CORRECT FEATURE MAPS

By: KOHONEN, T (KOHONEN, T)

BIOLOGICAL CYBERNETICS

Volume: 43 Issue: 1 Page: 59-69

DOI: 10.1007/BF00337288

Published: 1982

Indexed: 1982-01-01

Document Type: Article

Author Information

Corresponding Address: KOHONEN, T (corresponding author)

[Helsinki University of Technology, Department of Technical Physics, SF-021150 Espoo 15, Finland](#)

Addresses:

[Kohonen, Teuvo; Helsinki University of Technology, Department of Technical Physics, SF-021150 Espoo 15, Finland](#)

Categories/Classification

Research Areas: Computer Science; Neurosciences & Neurology

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Scholar

Self-organized formation of topologically correct feature maps

T Kohonen - Biological cybernetics, 1982 - Springer

This work contains a theoretical study and computer simulations of a new self-organizing process. The principal discovery is that in a simple network of adaptive physical elements which receives signals from a primary event space, the signal representations are automatically mapped onto a set of output responses in such a way that the responses acquire the same topological order as that of the primary events. In other words, a principle has been discovered which facilitates the automatic formation of topologically correct maps ...

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Tietokanta	Viittauksia	Viittaustiedon saatavuus	Huomioitavaa
Web of Science	5034	Maksullinen tietokanta*	Käytön lisenssiehdot
Scopus	6030	Maksullinen tietokanta*	Käytön lisenssiehdot
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Google Scholar	12291	Ilmainen tietokanta	Viittausdataa "tulee ja menee"
<i>Kirjastotietokanta (HELKA)</i>	<i>800</i>	<i>Maksuton**</i>	<i>Ei tarkoitettu kattavaksi viitteiden osalta</i>

* Yliopisto/tutkimuslaitos/kirjasto maksaa

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ENTÄ JOS VIITTAUSTIETOKANTA OLISI ILMAINEN JA AVOIN?

Toimija	Mahdollistava tekijä	Lisäksi
Crossref	DOI-tunnisteet julkaisuille Viitteiden rekisteröinti	Kustantajien sitouttaminen
Tekoäly	Algoritmien käytön yleistyminen Oppivat algoritmit	Vastuullisuus huomioitava
Open Access	Avoimen tieteen rahoitus Avoimen tieteen periaatteet Avoimen tieteen lisenssit	Avoimen tieteen tahtotila

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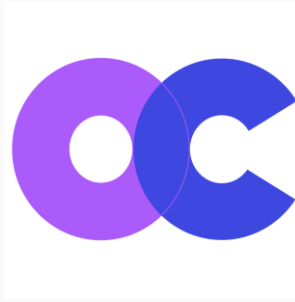
Alberto Martín-Martín,
Granada (10/2021)

Testisetti: 2515 paljon viitattua julkaisua (2006) eri tieteenaloilta

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Scopus	90%	82%		84%	83%	44%	75%	40%	81%
Dimensions	93%	90%	88%		83%	50%	86%	43%	91%
Web of Science	94%	86%	93%	88%		47%	80%	46%	87%
COCI (2019)	93%	92%	89%	97%	86%		100%	42%	100%
COCI (2021)	92%	91%	87%	95%	83%	57%		43%	100%
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10.1017/9781108694407.008; 10.1017/9781108694407.009; 10.1017/9781108694407.010;
10.1007/978-3-319-96226-9_11; 10.1007/978-3-319-60279-0_2; 10.1007/978-3-319-60279-
0_3; 10.1007/978-3-319-60279-0_4; 10.1080/00905992.2014.916667;
10.1177/1367549419856828; 10.1080/09585192.2017.1314975; 10.1177/0020764019827982;
10.1177/0020872814536416; 10.1080/09687599.2019.1580563; 10.1017/s1537592716001109;
10.1002/9781119168577.ch30; 10.1080/19409419.2019.1679663;
10.1080/09668136.2020.1817861; 10.1146/annurev-soc-090420-100607;
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    "author": "Johnson, Janet Elise; Saarinen, Aino",
    "issue": "3",
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    "doi": "10.1086/668515",
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- Entä mitä tapahtui 1900-luvun lopulla eri organisaatioissa kerätyille julkaisuaineistoille?
- Mitä voisimme parantaa ja miten?

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[  
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    "citation": "",  
    "title": "Mortality Trends In Finland In The 1960'S",  
    "author": "Leppo, Kimmo; Lindgren, Jarl; Ritamies, Marketta",  
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    "volume": "",  
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An aerial photograph of a pond with reeds and water. The water is a deep blue, and the reeds are a mix of green and brown. The pond is surrounded by a light-colored, possibly sandy or silty, bank. The overall scene is serene and natural.

KIITOS!

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