

A Union Catalog for Networked Digital Library for Theses and Dissertations – An Update

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About VTLS Inc

- **First spin-off corporation at Virginia Tech (Virginia Polytechnic Institute & State University) – Virginia's largest University**
- **Anchor tenant in VA Tech Research Park (1987)**
- **VTLS has offices in 6 countries & agents in 12**
- **VTLS does business in 32 countries**
- **More than 100 employees in Blacksburg**
- **Business – integrated library systems;**
 - digital libraries and
 - RFID technology for libraries

VTLS Inc. Corporate Offices

- **Blacksburg, Virginia, USA**
- **Barcelona, Spain**
- **Kraków, Poland**
- **Kuala Lumpur, Malaysia**
- **New Delhi, India**
- **Rio de Janeiro, Brazil**
- **Martigny, Switzerland**

VTLS Inc. Corporate Headquarters



VTLS Inc.

International Partner Locations

- **Australia**
- **Egypt**
- **Germany**
- **Greece**
- **Kuwait**
- **Malaysia**
- **Philippines**
- **Singapore**
- **Slovakia**
- **Switzerland**
- **Taiwan**
- **Thailand**

VTLS Products

- **ISO 9001 registered company**
- **VTLS Old Product Line – No longer sold; but supported**
 - **VTLS-2001**
 - **Micro-VTLS**
- **VTLS New Product Line**
 - **VIRTUA ILS (Integrated Library Systems)**
 - **VISUAL MIS (Multimedia and Imaging Solutions)**
 - **VISTA CPS (Companion Product Suite)**



A Union Catalog for NDLTD

Goals

- Create a global union catalog of all theses and dissertations for NDLTD members and others.
- Provide a single location for searching ETDs
- Single searchable database for ETDs in all languages (Made possible thru Unicode.)
- Participating Institutions will provide metadata for the union catalog with a link (URL) to their Electronic Theses and Dissertations (ETDs).
- Institutions will host their own ETDs.

Goals

- Ana Pavani said
“In order to be read – you have to be found”
- That is exactly the goal of the Union Catalog – to allow you to find theses and dissertations from any institution, in any language from any location.

A Union Catalog for NDLTD

Union Catalog Agency

- Union Catalog Agency will
 - host the union catalog
 - store the original submission
 - convert submitted data
 - to Unicode
 - to standardized format for loading
 - create database
 - create search indexes for database
 - provide web based client to access database
 - provide Z39.50 server support for database
- NDLTD Steering Committee decided that VTLS Inc. will act as the Union Catalog Agency for NDLTD

A Union Catalog for NDLTD

Creating the Database

- Participating Institutions will submit their metadata on ETDs to the Union Catalog Agency
- Metadata may be submitted (**or Harvested using OAI**) in
 - Marc Format
 - Dublin Core
 - A DDT for ETD
- Use Open Archives where ever possible
- Each submission should have a locally assigned object identifier (to allow updates to the database)

A Union Catalog for NDLTD

User Functions

- Search Union Catalog
 - Authors/creators
 - Committee members
 - Titles
 - Institutions/Departments
 - Subjects
 - Keywords
 - Words in Abstract
 - Language of ETD
- Select the TD of interest
- Navigate to ETD (or to the Institution)
- Download - read/view ETD from Institutions

A Union Catalog for NDLTD

Maintaining the Catalog

- Distributed Online maintenance
- Periodic submissions of new data from participating institutions
 - How often? Once a semester?
 - FTP or harvesting?
- Updating of existing records in batch
 - error corrections
 - new keywords or subjects

Submit and Store Formats

- Data may be submitted or harvested in any “reasonable” format. Have received data in
 - MARC21, USMARC, UNIMARC, RDF, UKMARC
- Can receive data in
 - Dublin Core or any XML based format.
- Store – original record in submission format
 - To allow for easy updating
- Searchable record is in MARC21 format
- Transparent to user

A Union Catalog for NDLTD Implementation Status

- Originally Project had three phases
 - Phase 1: Pilot Project
 - Phase 2: Test project
 - Phase 3: Go Live
- **All Phases are now complete**
- The Union Catalog is available **FREE** at
<http://www.vtls.com/ndltd>
- **User interface is being constantly refined and new search types are being added based on feedback received from users.**

NDLTD Union Catalog Statistics

1. Participating Countries

- So far ETDs from 7 countries are included in the database.
 - Canada
 - Germany
 - Greece
 - Korea
 - Portugal
 - Spain
 - U.S.
- UK to be added by June 30, 2002.
- Brazil to be added soon.

NDLTD Union Catalog Statistics

2. Interface Languages in Union Catalog

- The language here is the language of the interface
- The VTLN NDLTD Union Catalog has 14 languages:
 - English, Arabic, Catalan, Chinese
 - French, German, Hebrew, Korean
 - Polish, Portuguese, Russian, Slovak
 - Spanish and Swedish
- **Examples follow**

NETWORKED DIGITAL LIBRARY
OF THESES AND DISSERTATIONS

SEARCHES Scan | Keyword | Expert | English

[New Session](#) | [Save Session](#) | [Cart](#) | [View History](#) | [Help](#)

Scan Search

Enter your search terms.

Select a search type.

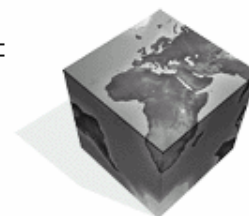
Choose a target database. Click the **Search** button.

Author

NDLTD Collection

Search

Welcome to the Networked Digital Library of Theses and Dissertations Union Catalog. This Union Catalog will serve as a repository of rich graduate educational material contributed by a number of member institutions worldwide. Our hope is that this project will increase the availability of student research for scholars, empower students to convey a richer message through the use of multimedia and hypermedia technologies and advance digital library technology worldwide.



This project is a joint development with [NDLTD](#) and [VTLS Inc.](#) Read the press release [here](#).

Browse the catalog by theses and dissertation author, subject, title and library call number. Click on "Browse Search" in the toolbar to initiate your search.

Search for words or exact phrases anywhere in the theses and dissertation catalog record. Specify a keyword field such as author, title or subject to narrow that search. Click on "Keyword Search" in the toolbar to begin.

The Expert search function allows you to use Boolean operators in a command mode. Click on "Expert Search" to get started and follow the helpful search instructions below the data entry box.

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English



Start



Networked Digital Libr...

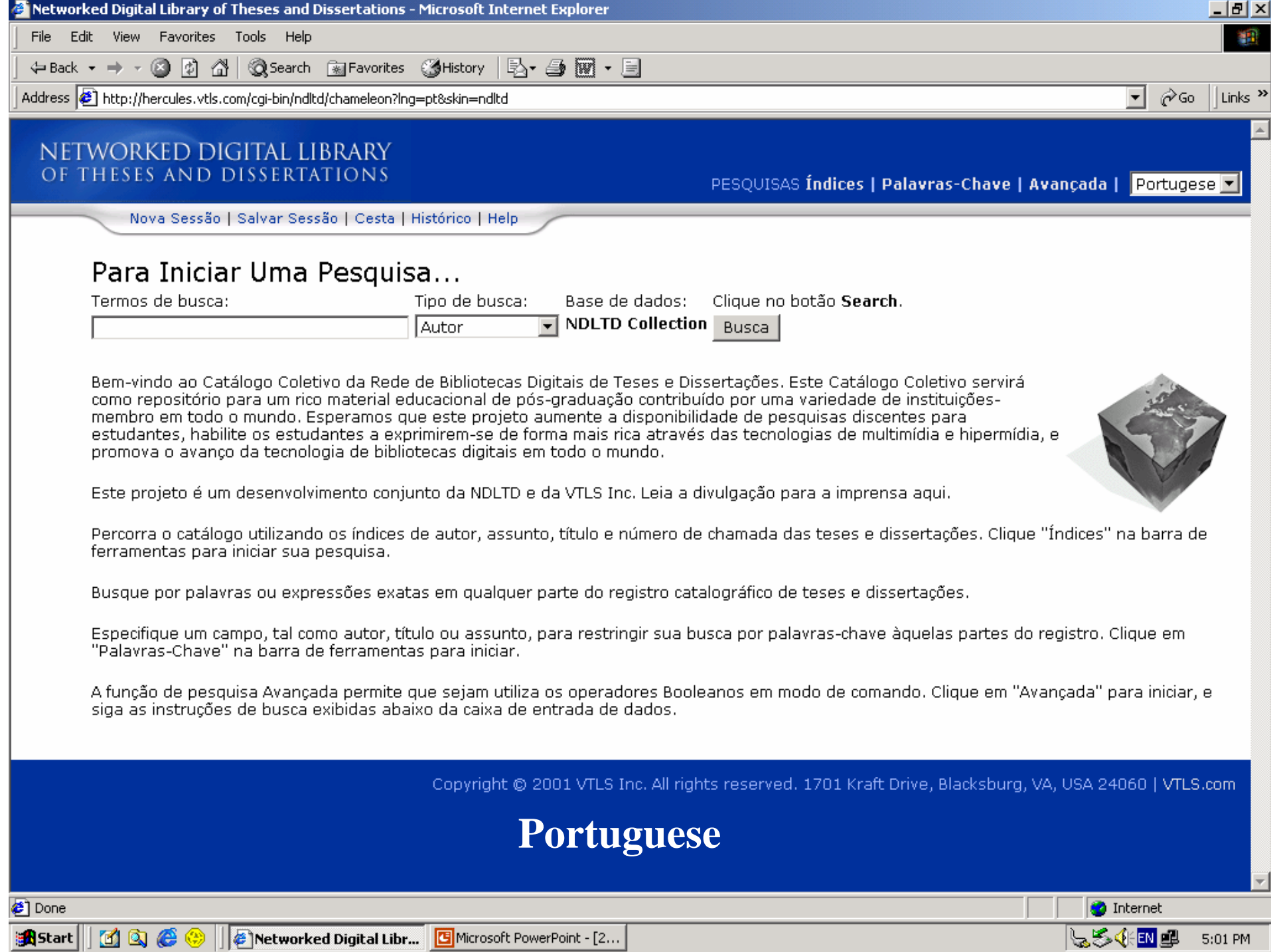


Microsoft PowerPoint - [2...]

Internet



4:52 PM



Um eine Suche zu starten...

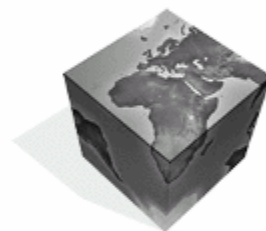
Geben Sie Ihre Suchbegriffe ein.

Wählen Sie eine Suchkategorie. Wählen Sie eine Zieldatenbank. Klicken Sie auf den Knopf **Suchen**.

NDLTD Collection

Search

Willkommen im Networked Digital Library of Theses and Dissertations Union Catalog. Dieser Gesamtkatalog wird als Depot für pädagogische Materialien von Akademiker/innen dienen; die Beiträge stammen von zahlreichen Mitgliedsinstitutionen weltweit. Wir hoffen, dass dieses Projekt den Studenten die Verfügbarkeit von Forschungsdokumenten erleichtert, dass es ihnen erlaubt, dank den Multimedia- und Hypermediatechnologien reichere Informationen zu übermitteln, und dass es die Technologie der digitalen Bibliothek weltweit entwickelt.

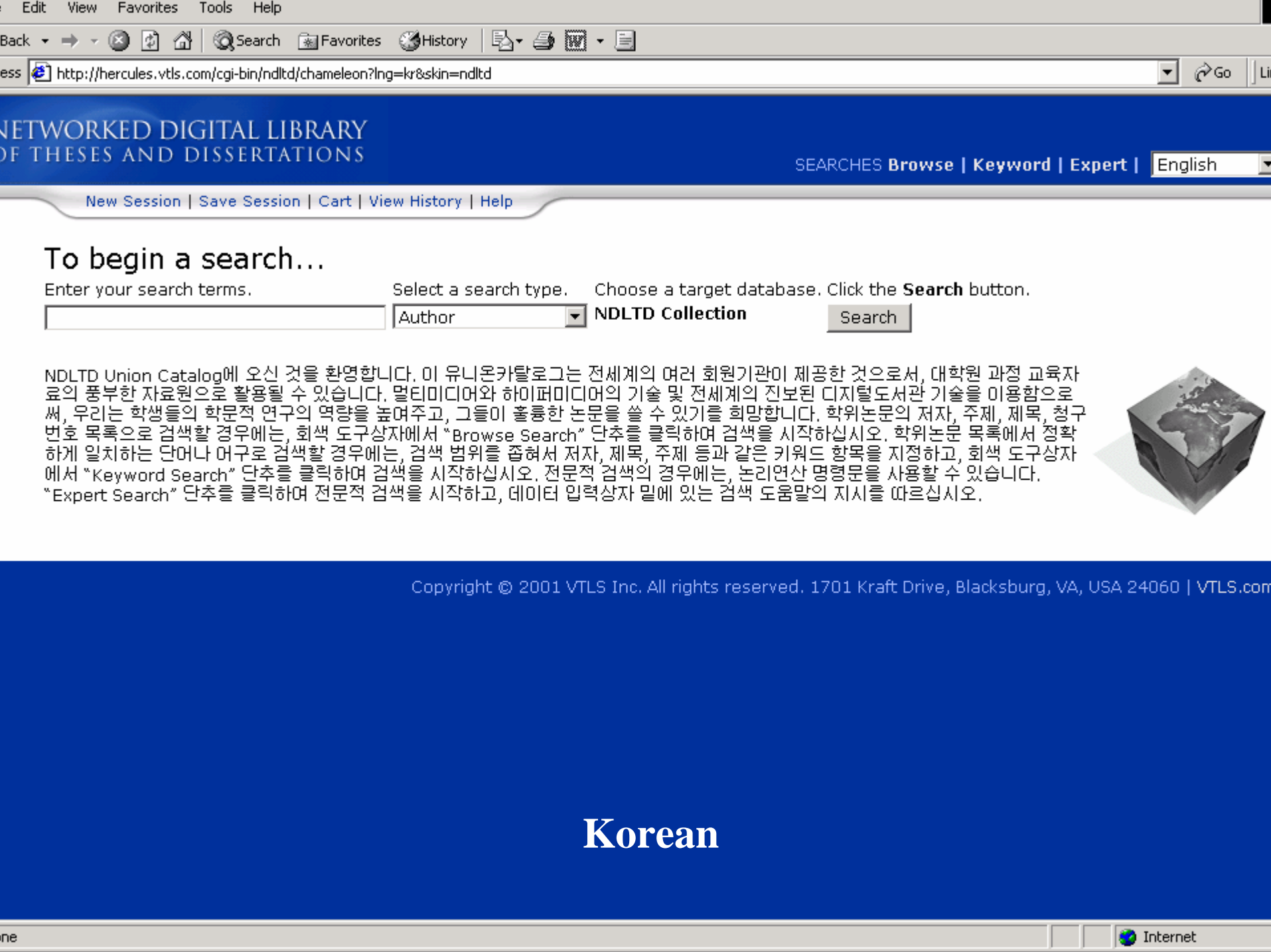


Dieses Projekt wird gemeinsam von NDLTD und VTLS Inc entwickelt. Lesen Sie die Pressemitteilung hier.

Blättern Sie im Katalog nach Autor, Thema, Titel und Signatur einer Dissertation. Klicken Sie auf die Suchart "Blättern" in der Auswahlleiste, um Ihre Suche zu beginnen.

Suchen Sie nach Begriffen oder genauen Sätzen in der Katalogaufnahme einer Dissertation. Geben Sie eine Suchkategorie ein, z.B. Autor, Titel oder Thema, um Ihre Suche einzuschränken. Klicken Sie auf die Suchart "Stichwort" in der Auswahlleiste, um Ihre Suche zu beginnen.

Mit der Expertensuche können Sie Bool'sche Operatoren im Befehlsmodus anwenden. Klicken Sie auf die Suchart "Experte", um Ihre Suche zu beginnen, und folgen Sie den Anweisungen unter dem Eingabefeld.



To begin a search...

Enter your search terms.

Select a search type.

Choose a target database. Click the **Search** button.

NDLTD Collection

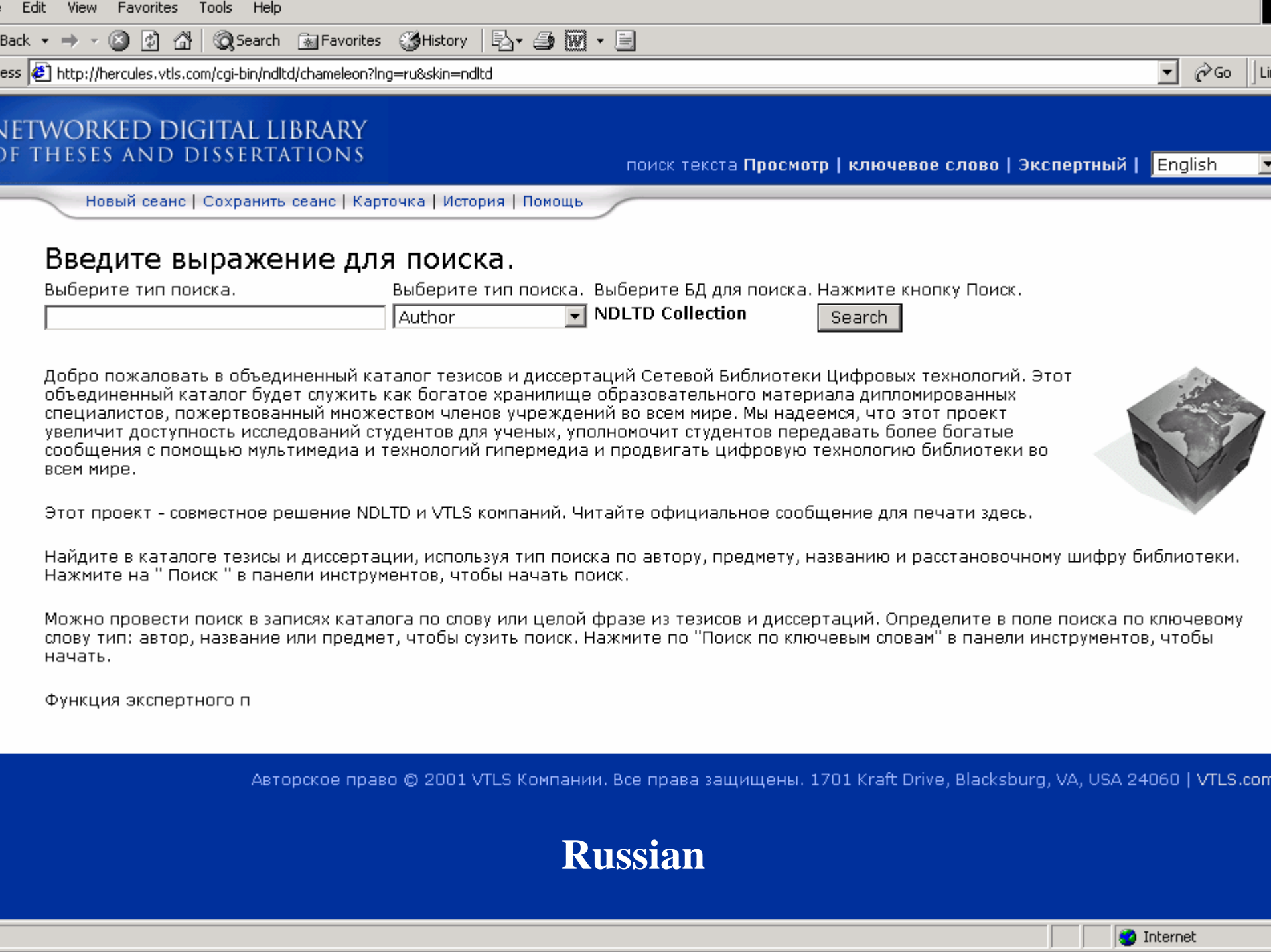
Search

NDLTD Union Catalog에 오신 것을 환영합니다. 이 유니온카탈로그는 전세계의 여러 회원기관이 제공한 것으로서, 대학원 과정 교육자료의 풍부한 자료원으로 활용될 수 있습니다. 멀티미디어와 하이퍼미디어의 기술 및 전세계의 진보된 디지털도서관 기술을 이용함으로써, 우리는 학생들의 학문적 연구의 역량을 높여주고, 그들이 훌륭한 논문을 쓸 수 있기를 희망합니다. 학위논문의 저자, 주제, 제목, 청구번호 목록으로 검색할 경우에는, 회색 도구상자에서 "Browse Search" 단추를 클릭하여 검색을 시작하십시오. 학위논문 목록에서 정확하게 일치하는 단어나 어구로 검색할 경우에는, 검색 범위를 좁혀서 저자, 제목, 주제 등과 같은 키워드 항목을 지정하고, 회색 도구상자에서 "Keyword Search" 단추를 클릭하여 검색을 시작하십시오. 전문적 검색의 경우에는, 논리연산 명령문을 사용할 수 있습니다. "Expert Search" 단추를 클릭하여 전문적 검색을 시작하고, 데이터 입력상자 밑에 있는 검색 도움말의 지시를 따르십시오.



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Korean



Введите выражение для поиска.

Выберите тип поиска. Выберите тип поиска. Выберите БД для поиска. Нажмите кнопку Поиск.

Author **NDLTD Collection** Search

Добро пожаловать в объединенный каталог тезисов и диссертаций Сетевой Библиотеки Цифровых технологий. Этот объединенный каталог будет служить как богатое хранилище образовательного материала дипломированных специалистов, пожертвованный множеством членов учреждений во всем мире. Мы надеемся, что этот проект увеличит доступность исследований студентов для ученых, уполномочит студентов передавать более богатые сообщения с помощью мультимедиа и технологий гипермедиа и продвигать цифровую технологию библиотеки во всем мире.



Этот проект - совместное решение NDLTD и VTLS компаний. Читайте официальное сообщение для печати здесь.

Найдите в каталоге тезисы и диссертации, используя тип поиска по автору, предмету, названию и расстановочному шифру библиотеки. Нажмите на " Поиск " в панели инструментов, чтобы начать поиск.

Можно провести поиск в записях каталога по слову или целой фразе из тезисов и диссертаций. Определите в поле поиска по ключевому слову тип: автор, название или предмет, чтобы сузить поиск. Нажмите по "Поиск по ключевым словам" в панели инструментов, чтобы начать.

Функция экспертного п

...To begin a search

.Click the **Search** button .Choose a target database .Select a search type .Enter your search terms

Search NDLTD Collection Author



ברונים הבאים לספריה הספרתית (דיג'יטלית) ברשת לתזות ודיצרטציות "יוניון קטלוג". קטלוג זה ישרת כמאגר של חומר לימודי עשיר, שנתרם ע"י מספר מוסדות-חברים מרחבי העולם. אנו מקווים שפריקיט זה יגדיל את הגישה למחקר, יאפשר לסטודנטים להעביר מסר עשיר יותר באמצעות מולטימדיה והיפרמדיה, ויקדם טכנולוגיה ספריתית ברחבי העולם.

ראה את ההודעה כאן, NDLTD ו-VTLS פרויקט זה הינו פיתוח משותף של

בסרגל הנלים כדי לבצע חיפוש "browse search) עיין בקטלוג לפי מחבר, נושא, ומספר קריאה. לחץ על "חיפוש עיון

חפש למילים או לצירופים מדויקים בכל מקום ברשומת הקטלוג לתזות ודיצרטציות. בחר שדה מפתח כגון מחבר, כותר, או נושא, כדי לצמצם את החיפוש. להתחיל, לחץ על "בסרגל הנלים" (keyword search) חיפוש מפתח.

וראה את ההוראות מתחת לריק לכניסת נתונים "search expert)אפשרות החיפוש המומחה מאפשר להשתמש באופרטורים בוליאנים. לחץ ב"חיפוש מומחה

NETWORKED DIGITAL LIBRARY
OF THESES AND DISSERTATIONS

اتصال جديد | حفظ الاتصال | السلة | شاشات سابقة

Arabic | متقدم | كلمة دالة | لبدء البحث

لبدء البحث

اضغط على زر البحث

اختر قاعدة البيانات

اختر نوع البحث

ادخل كلمات البحث

بحث

NDLTD Collection

مؤلف



مرحباً بكم في الفهرس الموحد لشبكة مكتبات البحوث والرسائل العلمية. هذا الفهرس الموحد سوف يمثل مخزن لحفظ المقتنيات الاكاديمية والتي سلع فيها البحث العلمي من الخريجين من مختلف المعاهد العلمية عالمياً أمثنا ان يقوم هذا المشروع بزيادة البحوث المتاحة للباحثين بالاضافة الى ادخال كل ما هو جديد في مجال تكنولوجيا المعلومات من لمزيد من المعلومات عن هذا النعلون VTLS و شركة NDLTD وسائط متعددة و المكتبات الرقمية العالمية لتكون تحت طلب الباحثين. هذا المشروع هو نتاج تعاون مشترك بين من فضلك اضغط هنا لاسعراض البحوث والرسائل العلمية سواء من خلال المؤلف أو الموضوع أو العنوان أو رقم التصنيف يكفي الضغط على زر البحث بالاسعراض لبحث هذه المقتنيات من خلال الكلمة الموحدة سواء كانت كلمة واحدة او عدة كلمات. يمكنك الضغط على زر البحث بالكلمة الدالة و الذي بدوره سوف يتيح نتائج مماثلة تماماً للبحث المطلوب سواء كان البحث عن طريق المؤلف أو العنوان أو الموضوع. البحث المركب يتيح لك امكانية البحث عن طريق العوامل المنطقية المختلفة لتكوين شكل بحث مركب

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Arabic

NDLTD Union Catalog Statistics

3. Languages in the Union Catalog

- The language here is the language of the content of ETD
- The VTLS NDLTD Union Catalog has data in 6 different languages. These are:
 - English
 - German
 - Greek
 - Korean
 - Portuguese
 - Spanish
- Examples follow

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OF THESES AND DISSERTATIONS

SEARCHES Scan | Keyword | Expert | English

[New Session](#) | [Save Session](#) | [Cart](#) | [View History](#) | [Help](#)[next set](#) | [last set](#)

Sort by: None Sort

☒ Ascending ☐ Descending

You searched ND LTD Collection - (lang:ger) ←
Records 1 through 10 of 137

Language = German; hits = 137

Save to Cart

Check 1-10

Clear All

● 1 full marc ☐ Select to add record to cart**Author** Braasch, Thorsten**Title** Optische Meßverfahren für den Mikro- und Millimeterwellenbereich - Optical measurement techniques for the micro- and millimeter-wave range**Publisher** University Library of Gerhard-Mercator University Duisburg 2001-05-21● 2 full marc ☐ Select to add record to cart**Author** Janzen, Oliver**Title** Untersuchungen zur Wechselwirkung von Buckminsterfullerenen mit Siliziumoberflächen und zur Dotierung von Metall/Silizium-Grenzflächen mit Buckminsterfullerenen Interaction between Buckminsterfullerenes and Silicon Surfaces and Interface Doping of Metal/Silicon Interfaces with Buckminsterfullerenes**Publisher** University Library of Gerhard-Mercator University Duisburg 2001-05-18● 3 full marc ☐ Select to add record to cart**Author** Alles, Martin**Title** Entwicklung und Realisierung von Wanderwellen-Photodetektoren für Hochfrequenz-Übertragungssysteme - Development and realisation of travelling-wave photodetectors for highfrequent**Publisher** University Library of Gerhard-Mercator University Duisburg 2001-05-31

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tionid=014716355431073&skin=ndltd&conf=.%2fchameleon.conf&itemu1=0&u1=0&t1=lang%3ager&lng=en&recsperpage=10&pos=1&prevpos=1&scant1=lang%3ager&

Go

Li

NETWORKED DIGITAL LIBRARY
OF THESES AND DISSERTATIONS

SEARCHES **Scan** | **Keyword** | **Expert** | English

next record

last record

full

marc

Full record display

You searched ND LTD Collection - (lang:ger)

Total Requests 0 Unsatisfied Requests 0

Author

Braasch, Thorsten

Title

Optische Meßverfahren für den Mikro- und Millimeterwellenbereich - Optical measurement techniques for the micro- and millimeter-wave range

Publication

University Library of Gerhard-Mercator University Duisburg 2001-05-21

Summary Note

In this work optical measurement techniques are developed and performed for the on-wafer and in-circuit characterisation of coplanar HF devices and circuits. Electro-optic sampling methods have been used most commonly deploying the Pockels-effect. It can shown, that also electroabsorptive mechanisms can be used for the measurement of HF signals. In addition, optical heterodyning is applied to transfer the microwave signal that is to detect to lower frequency ranges. - Gegenstand der vorliegenden Dissertation ist die Entwicklung einer optischen Messtechnik, die zur Untersuchung und Charakterisierung von koplaren Hochfrequenz-Bauelementen und -Schaltungen eingesetzt werden kann. Hervorragende Ergebnisse konnten bislang mit der elektrooptischen Messtechnik erzielt werden, welche den Pockels-Effekt zwischen einem durch das Bauelement propagierenden Mikrowellensignal und einem optischen Abtaststrahl ausnutzt. Die vorliegende Arbeit zeigt, dass auch elektroabsorptive Effekte für optische Messverfahren eingesetzt werden können. Sie präsentiert zudem die Möglichkeit, durch die Heterodyn-Technik, also das geeignete Mischen zweier wellenlängenverstimmtter cw-Laser, das Mikrowellensignal in niedrigere und damit einfacher zu messende Frequenzbereiche herunterzutransferieren.

Dissertation note

DR (doctoral) -- University Library of Gerhard-Mercator University Duisburg.

Contributor

Jäger Dieter; Prof. Dr. rer. nat. chair

Institution

University Library of Gerhard-Mercator University Duisburg Fachbereich 9 der Gerhard-Mercator-Universitaet Duisburg

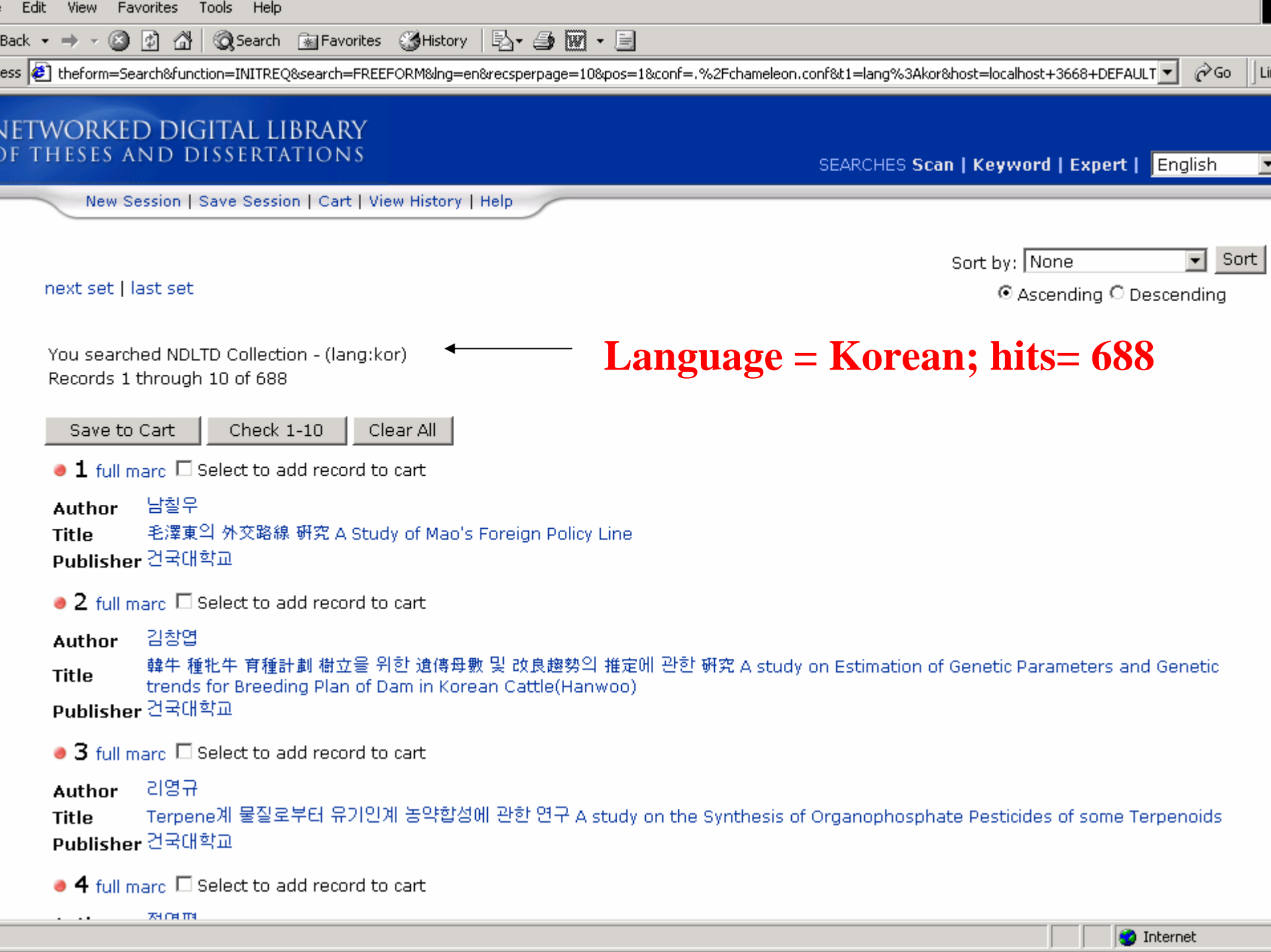
Subject

Mikrowellenbau-elemente (MMICs)

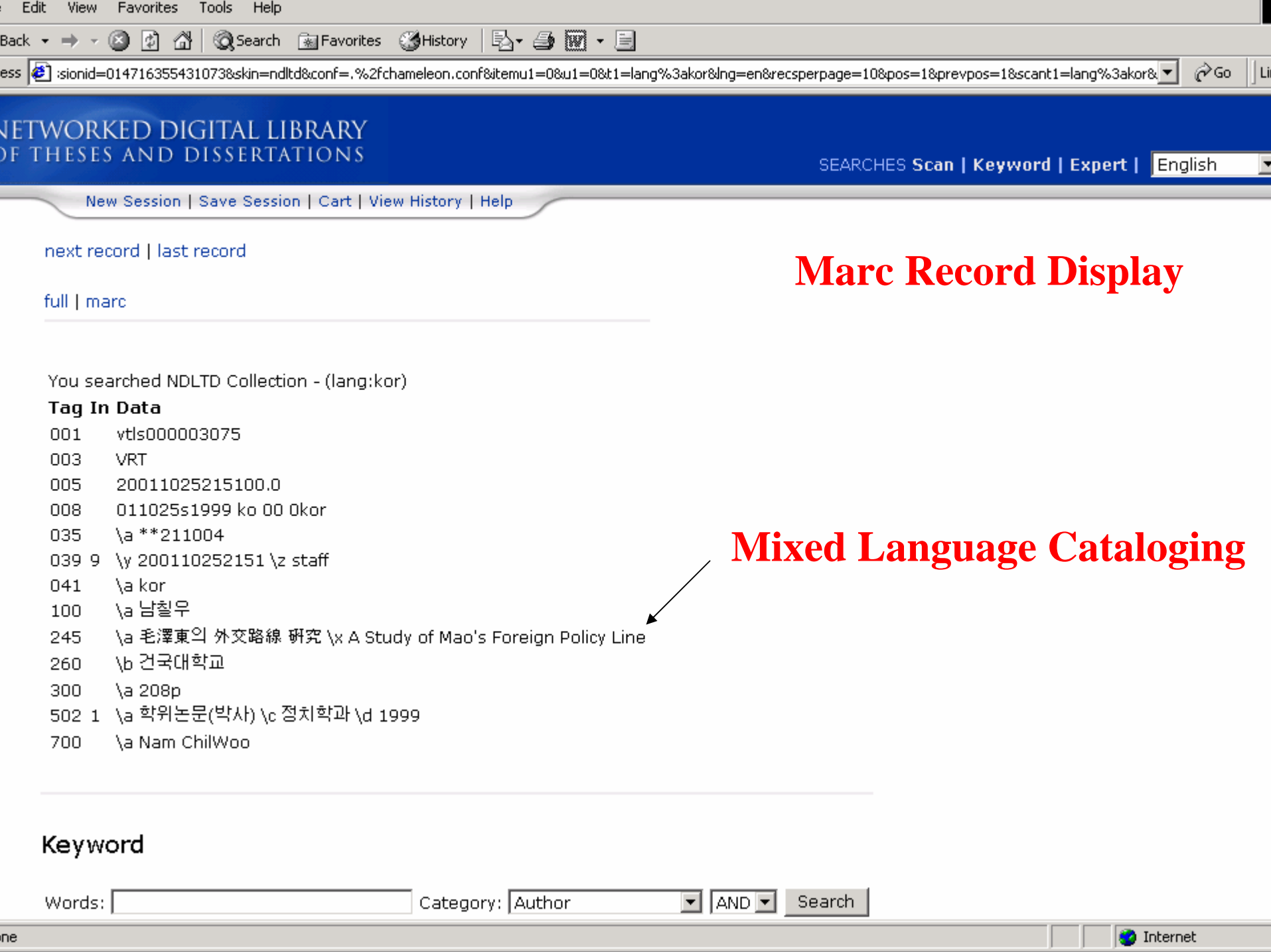
Subject

Pockels-Effekt

Internet



Language = Korean; hits= 688



[next record](#) | [last record](#)

[full](#) | [marc](#)

You searched NDLTD Collection - (lang:kor)

Tag In Data

001 vtls0000003075
003 VRT
005 20011025215100.0
008 011025s1999 ko 00 0kor
035 \a **211004
039 9 \y 200110252151 \z staff
041 \a kor
100 \a 남칠우
245 \a 毛澤東의 外交路線 研究 \x A Study of Mao's Foreign Policy Line
260 \b 건국대학교
300 \a 208p
502 1 \a 학위논문(박사) \c 정치학과 \d 1999
700 \a Nam ChilWoo

Keyword

Words: Category:

NDLTD Union Catalog Statistics

4. Partial List of Institutions in the Union Catalog

- Konkuk University (Korea)
- University of British Columbia (Canada)
- University of Gerhard-Mercator (Germany)
- Universitat Politecnica de Valencia
- University de Strasbourg (Germany)
- National Documentation Center (Greece)
- National Library of Portugal (Portugal)
- Sogang University (Korea)
- Virginia Polytechnic Institute and State University (USA)

NDLTD Union Catalog

How can you participate?

- **Simple – No hassles; No fees; Just a desire to participate**
- Send us your metadata or tell us where to harvest it from. Be sure that the URL is included.
- Send us periodic updates (or allow us to harvest them) – once a quarter or semester is enough.
- There are many benefits to your institution – but there are even more benefits to your researchers.

VTLS NDLTD Union Catalog Statistics

5. Number of ETDs in Union Catalog

- As of May 1, 2002 there are **4,362** ETD's in the NDLTD Union catalog Database maintained by VTLS.
- Data received from the British Library has not been loaded yet as the records are being converted to the format for loading.
- This load will add approximately 100,00 records to the database but not all records are for ETDs. Should these be included?

VTLS NDLTD Union Catalog Statistics

5. Number of Accesses per month

- April 2002 - 27,760 requests.
- May 2002 so far 28,516 requests.

NDLTD Union Catalog

Additional Changes needed

- Changes to searches
 - Committee Member Searches - **done**
 - Name browses on any word of the name – **in process**
- Changes to data mapping –in process
- Some changes to user interface
- Some challenges – Today's topic
 - Multilingual subject terms and issues around it.
 - please see examples that follow.

NDLTD Union Catalog

Importance of Subject Terms

- Subject terms are essential to find ETDs from different sources
- No standard thesaurus or controlled vocabulary is in use at this time
- Other questions:
 - Use classification system?
 - Use vernacular or English terms or both?
 - See examples of actual data

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tionid=014718125332383&skin=ndlt&conf=.%2fchameleon.conf&itemu1=0&u1=0&t1=lang%3ager&lng=en&recsperpage=10&pos=1&prevpos=1&scant1=lang%3ager&

Go

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Author

Braasch, Thorsten

Title

Optische Meßverfahren für den Mikro- und Millimeterwellenbereich - Optical measurement techniques for the micro- and millimeter-wave range

Publication

University Library of Gerhard-Mercator University Duisburg 2001-05-21

Summary Note

In this work optical measurement techniques are developed and performed for the on-wafer and in-circuit characterisation of coplanar HF devices and circuits. Electro-optic sampling methods have been used most commonly deploying the Pockels-effect. It can shown, that also electroabsorptive mechanisms can be used for the measurement of HF signals. In addition, optical heterodyning is applied to transfer the microwave signal that is to detect to lower frequency ranges. - Gegenstand der vorliegenden Dissertation ist die Entwicklung einer optischen Messtechnik, die zur Untersuchung und Charakterisierung von koplanaren Hochfrequenz-Bauelementen und -Schaltungen eingesetzt werden kann. Hervorragende Ergebnisse konnten bislang mit der elektrooptischen Messtechnik erzielt werden, welche den Pockels-Effekt zwischen einem durch das Bauelement propagierenden Mikrowellensignal und einem optischen Abtaststrahl ausnutzt. Die vorliegende Arbeit zeigt, dass auch elektroabsorptive Effekte für optische Messverfahren eingesetzt werden können. Sie präsentiert zudem die Möglichkeit, durch die Heterodyn-Technik, also das geeignete Mischen zweier wellenlängenverstimmter cw-Laser, das Mikrowellensignal in niedrigere und damit einfacher zu messende Frequenzbereiche herunterzutransferieren.

Dissertation note

DR (doctoral) -- University Library of Gerhard-Mercator University Duisburg.

Contributor

Jäger Dieter; Prof. Dr. rer. nat. chair

Institution

University Library of Gerhard-Mercator University Duisburg Fachbereich 9 der Gerhard-Mercator-Universitaet Duisburg

Subject

Mikrowellenbau-elemente (MMICs)

Subject

Pockels-Effekt

Subject

OBIC-Messungen

Subject

Elektroabsorption

Subject

HF measurement technique

Subject

optical heterodyning

Subject

microwave devices (MMICs)

Subject

OBIC measurements

Subject

electro-optic sampling

Subject

Pockels-effect

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Multilingual Subject Terms

Example #1

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Challenges: Multilingual Subject Terms

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- Mikrowellenbau-elemente (MMICs)
- Pockels-Effekt
- OBIC-Messungen
- Elektroabsorption
- HF measurement technique
- microwave devices (MMICs)
- Pockels-effect
- OBIC measurements
- optical heterodyning
- electro-optic sampling

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Go

Author

Broekelschen, Jens

Title

Betriebliche Humankapitalbildung als strategischer Wettbewerbsfaktor in der Automobilproduktion . Eine vergleichende Analyse der deutschen, US-amerikanischen und japanischen Automobilindustrie. Internal human capital formation as a strategic competitive factor in the automobile production . A comparative analysis of the German, US-American and Japanese automobile industry

Publication

University Library of Gerhard-Mercator University Duisburg 2001-05-21

Summary Note

It is the aim of this thesis to point out the importance of internal human capital formation in the German, US-American and Japanese automobile industry as a strategic competitive factor, not least due to the increasing automation of the manufacturing process and the use of new production technologies respectively. The results give important information for the organization of a company's internal human capital formation in its function as a strategic competitive factor. - Ziel der Arbeit ist es, zu zeigen, daß sich die betriebliche Humankapitalbildung in der deutschen, US-amerikanischen und japanischen Automobilindustrie nicht zuletzt bedingt durch die zunehmende Automatisierung des Produktionsprozesses bzw. durch den Einsatz neuer Produktionstechnologien zu einem strategischen Wettbewerbsfaktor entwickelt hat. Die Untersuchungsergebnisse liefern wichtige Anhaltspunkte für die Gestaltung von betrieblicher Humankapitalbildung in ihrer Funktion als strategischem Wettbewerbsfaktor.

Dissertation note

DR (doctoral) -- University Library of Gerhard-Mercator University Duisburg.

Contributor

Heiduk Günter; Prof. Dr committee_member

Institution

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Subject

Qualifizierung

Subject

Ausbildung

Subject

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Multilingual Subject Terms

Example #2

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Challenges: Multilingual Subject Terms

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- **Qualifizierung**
- **Ausbildung**
- **Fortbildung**
- **Weiterbildung**
- **Automobile industry**
- **automobile production**
- **education**
- **human capital formation**
- **training**
- **Personalentwicklung**

Appears that words beginning with capital letters are German words and the others are English words.

Author	Janzen, Oliver
Title	Untersuchungen zur Wechselwirkung von Buckminsterfullerenen mit Siliziumoberflächen und zur Dotierung von Metall/Silizium-Grenzflächen mit Buckminsterfullerenen Interaction between Buckminsterfullerenes and Silicon Surfaces and Interface Doping of Metal/Silicon Interfaces with Buckminsterfullerenes
Publication	University Library of Gerhard-Mercator University Duisburg 2001-05-18
Summary Note	The present work investigates the interaction between buckminsterfullerene molecules (C60) and silicon surfaces as well as the influence of buckminsterfullerenes on metal/silicon interfaces. The knowledge about the mechanism of surface/molecule interaction between the technologically important semiconductor Si and C60 molecules may lead to new applications of fullerenes. In this context the present study compares the adsorption and the growth mechanisms as well as the desorption of C60 molecules which were evaporated onto well-prepared Si(111)-7x7-, Si(111):H-1x1- and Si(111):Ag-(sqrt(3) x sqrt(3))R30°-surfaces using Auger electron spectroscopy (AES), low-energy electron diffraction (LEED) under ultra-high vacuum conditions. The electronic structure of C60-covered Si(111)-7x7-, Si(111)-1x1-, Si(111):H-1x1- and Si(111):Ag-(sqrt(3) x sqrt(3))R30°-surfaces was investigated using ultraviolet and X-ray photoelectron spectroscopy (UPS, XPS). From these experiments the molecule/surface interaction mechanisms can be identified. Crystalline C60 is a new semiconductor material. Therefore, evaporating C60 onto Si surfaces builds up a semiconductor heterostructure. The electronic properties of this heterostructure are characterized by the band discontinuities at the C60/Si interface. Using UPS and XPS the valence-band discontinuity at this semiconductor/semiconductor interface were determined. Additionally, metal/Si contacts were produced on initially clean silicon surfaces which were covered with distinct amounts of C60 before Ag-, Pb- or Pd-contacts were evaporated. The transport properties of these contacts were studied by current-voltage-characteristics to determine the influence of C60-layers on the Schottky barrier heights of the metal/Si contacts.
Dissertation note	DIPL (doctoral) -- University Library of Gerhard-Mercator University Duisburg.
Contributor	Mönch W. Prof. Dr. chair
Institution	University Library of Gerhard-Mercator University Duisburg Fachbereich 10 der Gerhard-Mercator-Universitaet Duisburg
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Multilingual Subject Terms

Example #3

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Li

a current on the electrical transmission line. This work describes several tools, which are developed for the simulation of travelling-wave photodetectors. The simulation tools allow the calculation of the local optical intensity inside the optical waveguide with BPM and analytical methods. The optical intensity is used to calculate the distributed photo current, which is generated in the distributed photo current source due to carrier generation. The current of this distributed current source is finally used to calculate the currents and voltages of the distributed equivalent circuit of the coplanar electrical waveguide. The realised simulation tools allow a complete description of the optoelectronic conversion of the travelling-wave photodetector including optical input, electrical output, and optoelectronic conversion including wave propagation effects. The simulation tools are used to optimise the travelling -wave photodetector. The simulations are validated using results from different characterisation methods. Two optoelectronic measurement setups for generation of optical heterodyne signals with beating frequencies of up to 60 GHz are realized and used for this work. Several new material systems are developed for the fabrication of travelling-wave photodetectors. The realised devices are the first InP travelling-wave photodetectors with an absorption length of approx. 900 µm for operation at 60 GHz with 1.3 µm to 1.55 µm optical wavelength. Saturation effects are not visible at 60 GHz for optical input powers of up to 12.5 dBm due to the distributed absorbing layer. The realised travelling-wave photodetectors have a efficiency of 0.23 A/W at 1.55 µm optical wavelength and operation at 60 GHz. A comparison with other high-speed photodetectors shows, that the travelling-wave photodetector belongs to the most powerful optoelectronic converters in the millimeterwave regime.

Dissertation note

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[Wanderwellen](#)

[Photodetektor](#)

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Multilingual Subject Terms

Example #4

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- Hochfrequenz
- Wanderwellen
- Photodetektor
- highfrequency
- travelling-wave
- InGaAlAs
- photodetector
- radiofrequency
- InP
- Hochfrequenztechnik





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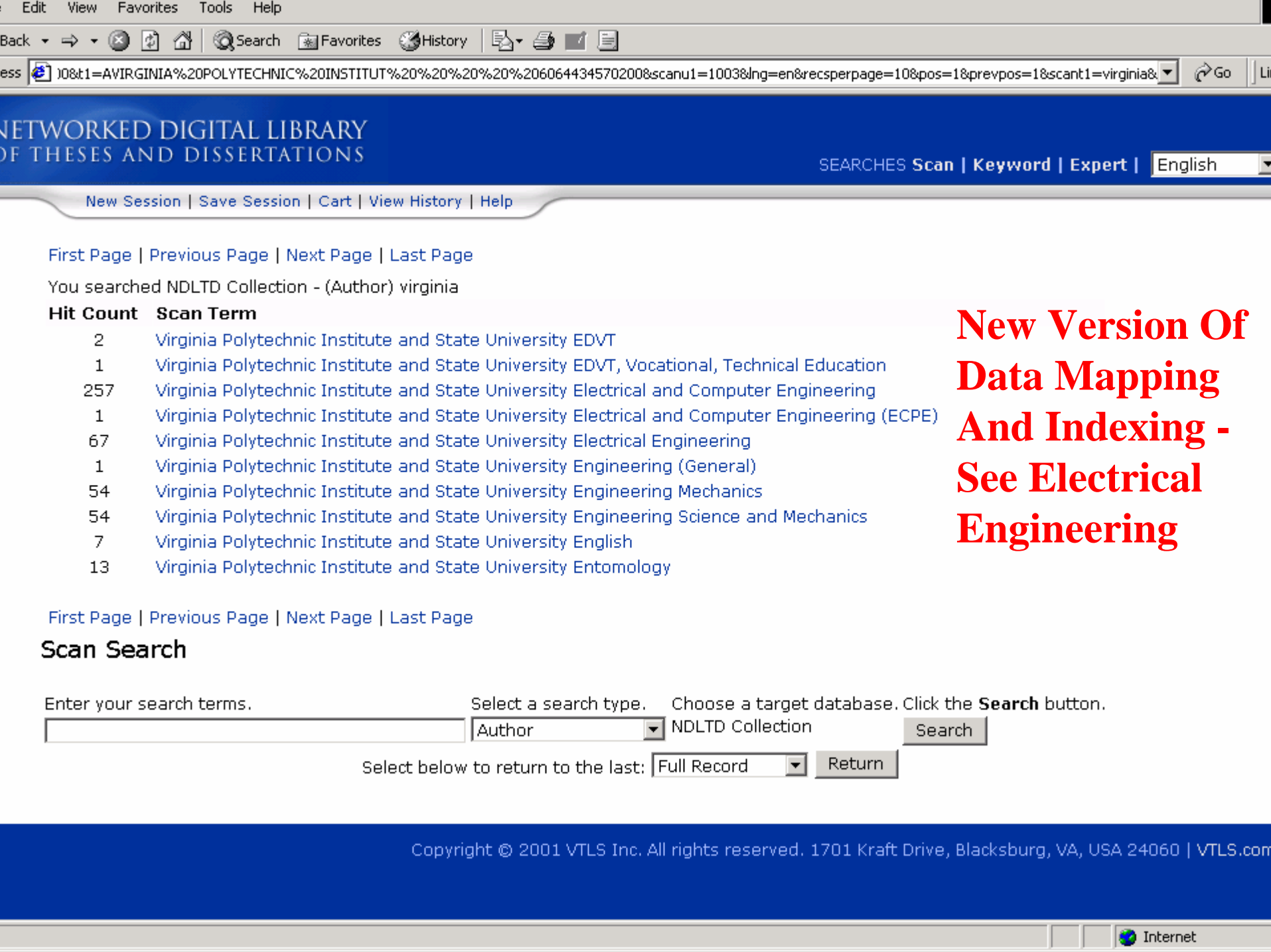
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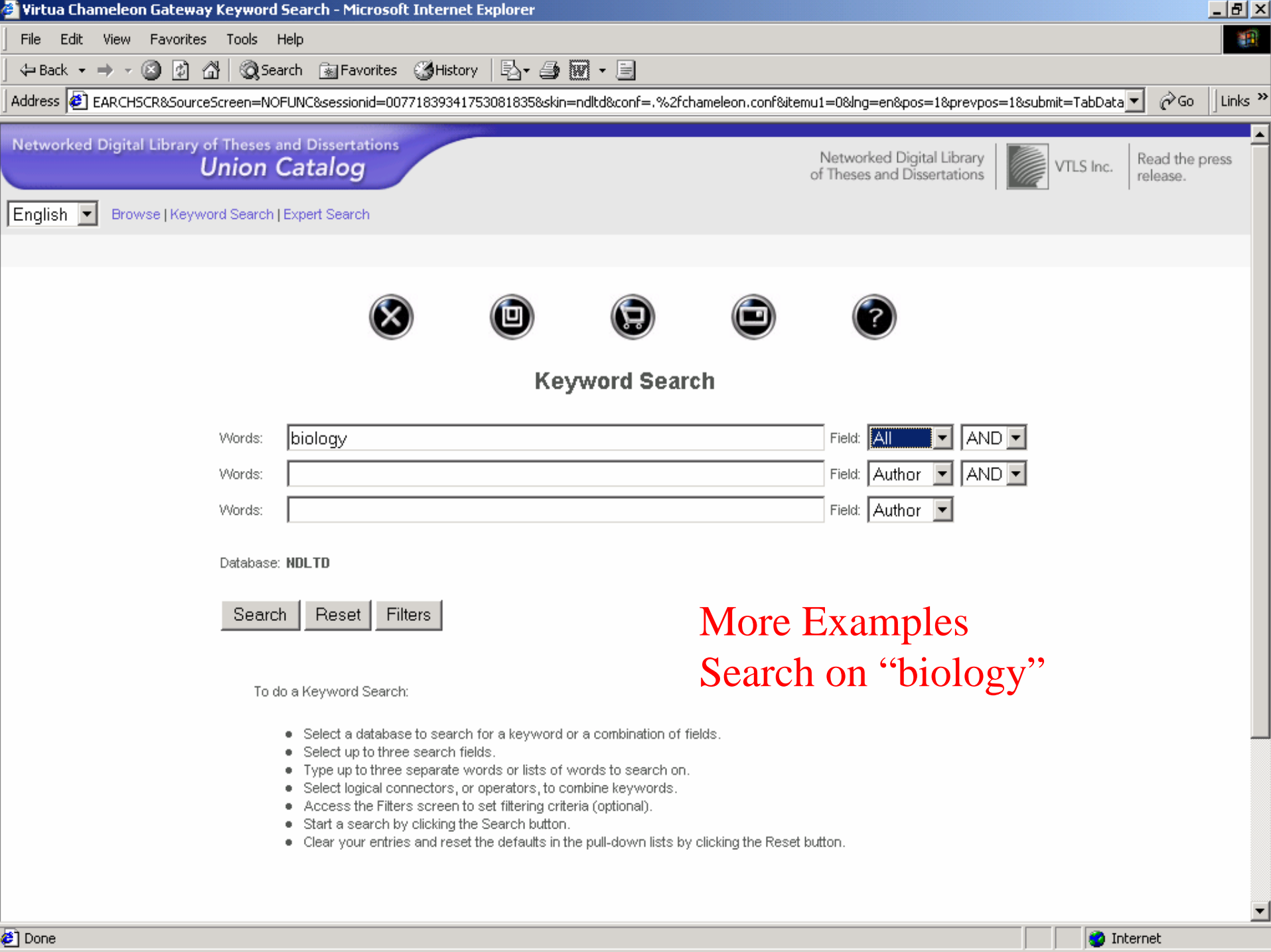
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Author	McKenzie, Woodrow L.
Title	Investigative learning in an undergraduate biology laboratoryan investigation into reform in science education /Woodrow L. McKenzie.
Publication	[Blacksburg, Va. :University Libraries, Virginia Polytechnic Institute and State University,1996]
Series	VPI & SU. Teaching and Learning. Ph. D. 1996
Multimedia	Click to link to URLhttp://scholar.lib.vt.edu/theses/public/etd-1026203169632121/etd-title.html
Summary Note	<p>This study examined an innovative, project-based curriculum in a freshman biology laboratory by focusing on how students developed their conceptual understanding of a biological species. A model for learning was posed based on learners working in small groups. This model linked a socio-cultural approach to teaching and learning to conceptual change theory. Qualitative research methods were employed to collect a variety of data. Documentation of this innovative curriculum is provided. This investigative curriculum incorporated the research practices that scientists use. A wide range of dynamic interactions with students actively investigating problems and thoughts during this time occurred. This essentially modeled the authentic practices of scientists. A direct comparison was made with this learning environment and the model for learning. Peer tutoring, cooperative learning, and most importantly, peer collaboration were observed when students grappled with difficult problems for which there was no single right answer. Teachers served as guides in learning, shifting responsibility richer to students. Analysis of student writing revealed richer, more complex definitions of species after the experience of the laboratory. Several of the students used knowledge gained directly from their experiences during the laboratory project to help elaborate their definitions.</p> <p>(continued) The electronic discussions showed a range of social interactions and interactivity. High quality discussions were found to be rich in scientific thought, engaging discussants by offering information, questioning, and actively hypothesizing. Mediating and facilitating discussions by the participants was found to be an important factor in their success. Groups exhibiting high quality discussions also had a slower response time than other groups, indicating that more substantive dialogues which are rich in thought proceed at a slower pace. Significantly, an important connection has been made between the socio-cultural approach to learning and conceptual change theory. A closer examination of how small groups of learners develop conceptual understanding is needed. This approach also needs to be extended into other settings where reform in science education is taking place.</p>
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Investigative Learning in an Undergraduate Biology Laboratory: an Investigation into Reform in Science Education

by

Woodrow L. McKenzie

Dissertation submitted to the Faculty of the Virginia Polytechnic Institute and State University in partial fulfillment of the requirements for the degree of

Doctorate of Philosophy

Approved

Dr. George E. Glasson, Chair

Dr. Arthur L. Buikema

Dr. Darrel A. Clowes

Dr. Jan K. Nespor

Dr. C. David Taylor

June 20, 1996

Blacksburg, Virginia

Abstract

Abstract

This study examined an innovative, project-based curriculum in a freshman biology laboratory by focusing on how students developed their conceptual understanding of a biological species. A model for learning was posed based on learners working in small groups. This model linked a socio-cultural approach to teaching and learning to conceptual change theory. Qualitative research methods were employed to collect a variety of data. Documentation of this innovative curriculum is provided. This investigative curriculum incorporated the research practices that scientists use. A wide range of dynamic interactions with students actively investigating problems and sharing both their findings and thoughts during this time occurred. This essentially modeled the authentic practices of scientists. A direct comparison was made with this learning environment and the model for learning. Peer tutoring, cooperative learning, and most importantly, peer collaboration were observed when students grappled with difficult problems for which there was no single right answer. Teachers served as guides in learning, shifting responsibility to the students. Analysis of student writing revealed richer, more complex definitions of species after the experience of the laboratory project. Several of the students used knowledge gained directly from their experiences during the laboratory project to help elaborate their definitions. The electronic discussions showed a range of social interactions and interactivity. High quality discussions were found to be rich in scientific thought, engaging discussants by offering information, questioning, and actively hypothesizing. Mediating and facilitating discussions by the participants was found to be an important factor in their success. Groups exhibiting high quality discussions also had a lower response time than other groups, indicating that more substantive dialogues which are rich in thought proceed at a slower pace. Significantly, an important connection has been made between the socio-cultural approach to learning and conceptual change theory. A closer examination of how small groups of learners develop conceptual understanding is needed. This approach also needs to be extended into other settings where reform in science education is taking place.

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Title	전자상거래로 인한 유통구조의 변화와 기업의 대응방안
Publication	서강대학교 경제대학원
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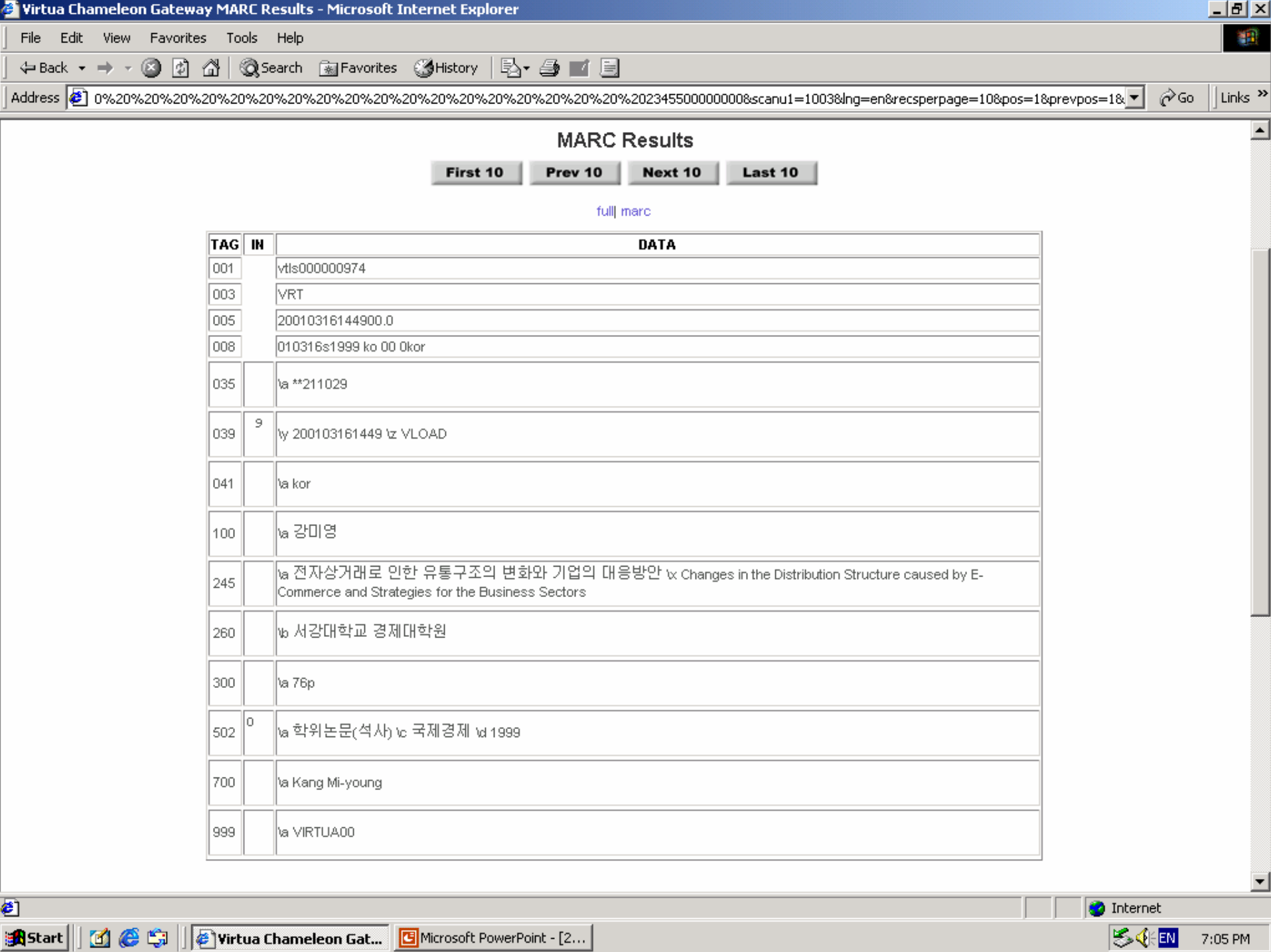
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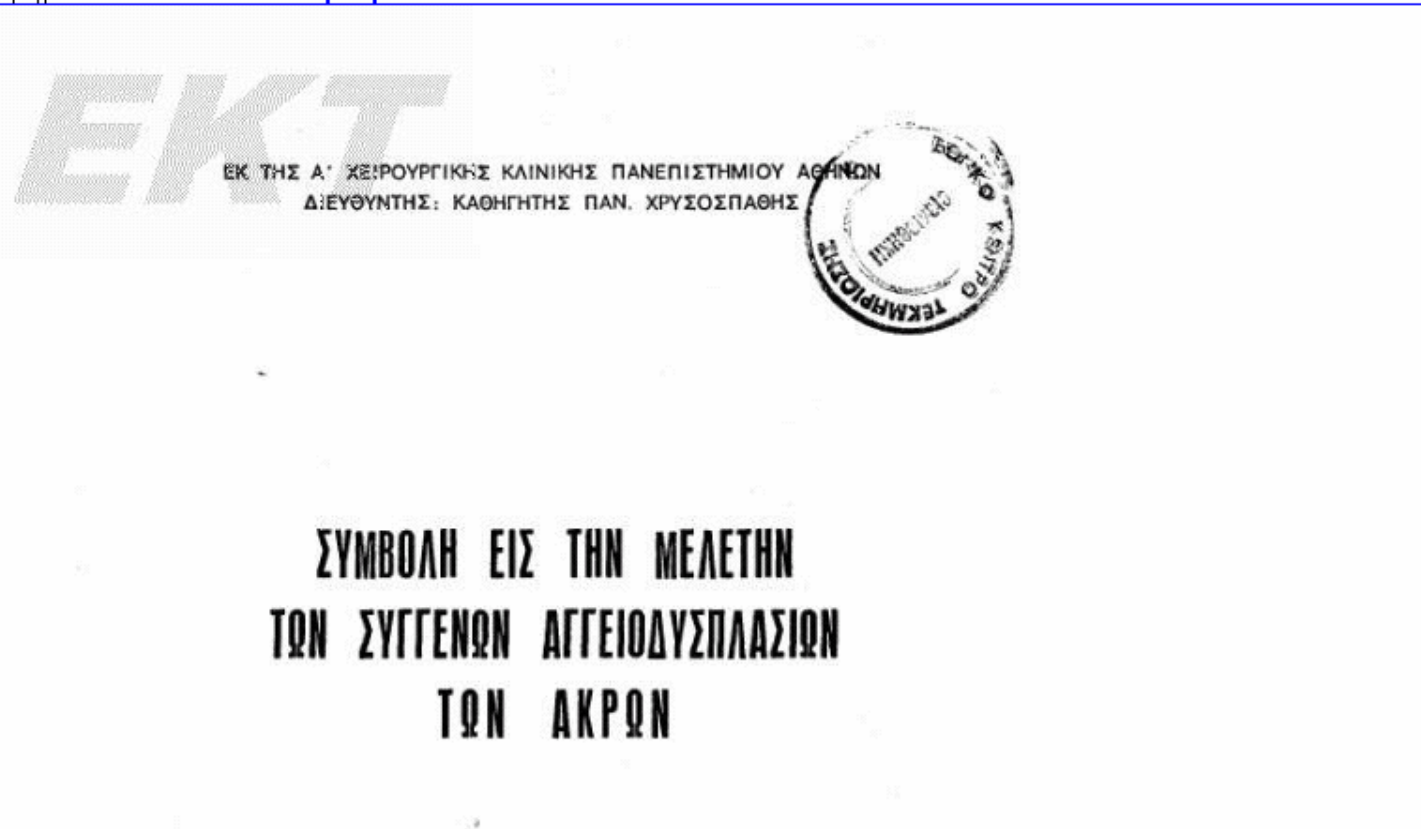
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ΣΥΜΠΕΡΑΣΜΑΤΑ

Έκ της μελέτης των ήμετέρων περιπτώσεων καί της ανασκοπήσεως της προσιτής εις ήμās βιβλιογραφίας καταλήγομεν εις τά εξής συμπεράσματα:

- 1) Αἱ συγγενεῖς δυσπλασίαι τῶν ἀγγείων τῶν ἄκρων, ἀποτελοῦν σχετικῶς σπανίας, οὐχί δέ ἐπαρκῶς γνωστὰς ἀνωμαλίας τοῦ ἀγγειακοῦ συστήματος, ὥς ἐκ τούτου δέ ἐπικρατεῖ σύγχυσις εἰς ὅτι ἀφορᾷ τήν αἰτιολογίαν, τήν ταξινόμησιν καί τήν θεραπευτικὴν τῶν ἀντιμετώπισιν.
- 2) Διὰ τήν δημιουργίαν καί τήν ἐκδήλωσιν τῶν συγγενῶν ἀγγειοδυσπλασιῶν τῶν ἄκρων, ἐνοχοποιοῦνται πλεῖστοι παθογενετικοί μηχανισμοί, οἵτινες ἐνεργοποιοῦνται τόσοσιν κατὰ τήν ἐνδομήτριον ζωὴν, ὅσων καί μετὰ ταύτην, ὄντες ὑπόλογοι εἰς τήν δευτέραν περίπτωσιν διὰ τήν καθυστερημένην ἐμφάνισιν τῶν δυσπλασιῶν τούτων.
- 3) Ἡ πλέον βάσιμος θεωρία διὰ τήν παθογένεσιν τῶν συγγενῶν ἀγγειοδυσπλασιῶν τῶν ἄκρων, ἥτις εἶναι ἀποδεκτὴ ἐκ τῶν περισσότερων συγχρόνων ἐρευνητῶν, στηρίζεται ἐπὶ τῆς παραδοχῆς τῆς ἐπιδράσεως εἰδικοῦ βλαπτικοῦ παράγοντος ἐπὶ τῆς ὄντογενέσεως, ὑπευθύνου τόσοσιν διὰ τὰς ἀγγειακὰς δυσπλασίας, ὅσων

Do and Don't List for Content of Data

- Do – Use a subject classification system
 - Standards committee discussed this topic
 - Discussion of Dewey and UDC
 - Discussion of multilingual subject headings
 - Discussion of multilingual subject terms
 - Language issue here – vernacular, English, or both
- Do- Include Institution Name, Department name, Degree, and Year

Do and Don't List for Content of Data

- Don't – add descriptor information on numerical data. Example: 340 pages
 - Let the tagging show that the field is number of pages
 - What to do with units like – inches and cms? Lbs and kg?
- Do – add descriptor information on local control number or use DOI or some other standard object identifier
 - Oclc1232345, vtls 9345267, rero156789
 - Numbers are not unique when merged in union database
- Don't – add titles in vernacular and in English in the same tag. But if you do at least add a language code

Do and Don't List for Content of Data

- Don't – put URLs in locally defined fields
 - Like MARC 901
 - Like `<userdefined> URLdata </userdefined>`
- Don't – have locally defined fields in exported data
- This is not an exhaustive list yet as we have just started working with external data.

NDLTD Union Catalog

Future

- Greater participation
 - We plan to contact all institutions that have ETDs to see if they wish to submit their metadata.
- Better usage statistics
 - At present there are about 20,000 accesses per month
- Enhanced records?
 - About Committee Members
 - About Institutions
 - TOC
 - About authors

Without downloading the whole document.

A Union Catalog for NDLTD

Your Opinion?

- Should the NDLTD union catalog be limited to records of ETDs or should it accept records of all Theses and Dissertations from an NDLTD member institution?
 - One is tempted to say yes BUT...
 - Some institutions have committed to digitizing theses and dissertations IF and WHEN they are requested.
 - Would the union catalog aid in this discovery process?
 - Is this a role better served by others?

Questions and Answers



Free access to NDLTD union catalog at

WWW.VTLS.COM/NDLTD