



THE UNIVERSITY *of* TENNESSEE

School of Information Sciences

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2016 ASIS&T Award of Merit Nomination Statement

This statement highlights the significant impact of Peter Ingwersen in three dimensions: scientific research, teaching and mentoring, and leadership in bridging interdisciplinary research.

Peter Ingwersen has a sustained record of theoretical and empirical contributions to interactive information retrieval (IIR), scientometrics and informetrics, and Webometrics. In IIR, he pioneered the naturalist field observation approach to studying information seeking behavior as described in his landmark paper *Search procedures in the library: Analyzed from a cognitive point of view* (J. of Doc., 1982). He developed a cognitive model of IIR in his seminal work *Information Retrieval Interaction*, 1992. The model was further expanded to integrate the perspectives from information science and computer science with his long-term collaborator Kalervo Järvelin (*The Turn*, 2005). Derived from the cognitive IIR model, he and associates created the polyrepresentation of information needs for improving IIR design (e.g., *Data fusion according to the principle of polyrepresentation*, JASIST, 2009). In recognition of his contributions to IIR, he received several prestigious awards, most recently, the 2015 UKeIG Tony Kent Strix Award. In scientometrics and informetrics, he has developed indicators and metrics to evaluate scientific research across organizations, disciplines, and countries. Peter Ingwersen is not only a rigorous researcher but also an innovative mind who is quick to identify and explore new ideas. He is called the father of Webometrics (*Informetric analyses on the World Wide Web: Methodological approaches to Webometrics*, J. of Doc., 1997). Since he and his protégé Thomas C. Almind coined the term, Webometrics has grown into an established research area. JASIST published a special issue on Webometrics in 2004. In recognition of this work, Peter Ingwersen received the 2005 Derek de Solla Price Medal.

Peter Ingwersen is one of the most prolific contributors to peer-reviewed journals, books, encyclopedia, and conferences in information science worldwide (please see the publication section of his CV). His research impact is evident also by the citation indices. Thomson Reuters recognized Peter Ingwersen with the 2005 Thomson Award of Excellence in Denmark for being the internationally most highly cited Danish researcher in the social sciences. As shown in Appendix, a quick search of Web of Science retrieved a total of 2,077 citing publications analyzed by his publication types; two searches of his books considering title variations found: one book has been cited by 343 publications and the other by 331 publications. Scopus shows a total of 2,275 publications citing his 94 publications (a record of sustained citation counts over the last 15 years). Because neither Web of Science nor Scopus is inclusive of books or conferences, we checked his Google Scholar profile, in which his works are cited by 9,065 publications as of June 25. He was also selected by the project Classic Scholars' Profiles (<http://www.classic-scholars-profiles.infoec3.es/bibliometrics/layout.php?id=ingwersen>).

Beyond research, Ingwersen's significant contributions to the field are also reflected by his teaching and mentoring of new generations of researchers in information science all over the world. As a professor, Peter Ingwersen is a beloved mentor and advisor and a dynamic teacher to many young researchers, doctoral students, and students of his courses. Many of his students and mentees have become successful researchers, academics and award winners (e.g., one of the dissertations he directed won the 2005 ASIS&T Best Dissertation Award). As a luminary in the field, not only does Peter Ingwersen support and encourage the new generation of researchers by commenting on their works and providing tenure and promotion reviews in rarely achieved thoroughness, but he also recognizes them by citing their works. His willingness to pay attention to young researchers' works and promote their good publications is truly exemplary given the long-observed phenomenon of scholarship: "a junior citing upward, but being ignored by the (cited) grandees" (Cronin & Shaw, *Scientometrics*, 2002, p. 44). He received the 2007 ASIS&T Outstanding Information Science Teaching Award.

Peter Ingwersen is a leader and visionary in the field. He has been selected to many editorial boards of prestigious scholarly journals including J.Doc, IPM, JASIST, ARIST, and Scientometrics. He was elected to the *International Advisory Board* of China's iSchool in Wuhan. He collaborates with international researchers through lectures, conferences, and research projects. He has chaired and served on many international conference committees, such as ACM SIGIR, ISSI, ICTIR, CoLIS, IiX, ISIC, LIDA, CHIIR, etc. He is the founder or co-founder of several important international conferences such as CoLIS, IiX, ISIC, and CHIIR. His tireless efforts to integrate the two IR paradigms (the user-centered vs the system-based research) have brought researchers in the respective communities together.

A Festschrift in Honor of Peter Ingwersen was published at his retirement with contributions from 50 authors in information science and scientometrics (http://issi-society.org/peteringwersen/pif_online.pdf).

Results Analysis

[<<Back to previous page](#)

2,077 records. CITED AUTHOR: (ingwersen p*) AND CITED YEAR: (1970-2016)

Rank the records by this field:

- Book Series Titles
- Conference Titles
- Countries/Territories
- Document Types

Show the top Results.
Minimum record count (threshold):

Set display options:

Sort by:

- Record count
- Selected field

Analyze

Use the checkboxes below to view the records. You can choose to view those selected records, or you can exclude them (and view the others).

Field: Document Types	Record Count	% of 2077	Bar Chart
<input type="checkbox"/> ARTICLE	1550	74.627 %	
<input type="checkbox"/> PROCEEDINGS PAPER REVIEW	454	21.858 %	
<input type="checkbox"/> BOOK CHAPTER	111	5.344 %	
<input type="checkbox"/> EDITORIAL MATERIAL	73	3.515 %	
<input type="checkbox"/> BOOK REVIEW	49	2.359 %	
<input type="checkbox"/> BOOK	29	1.396 %	
<input type="checkbox"/> LETTER	24	1.156 %	
<input type="checkbox"/> MEETING ABSTRACT	11	0.530 %	
<input type="checkbox"/>	1	0.048 %	

Field: Document Types	Record Count	% of 2077	Bar Chart
<input checked="" type="checkbox"/> View Records			
<input checked="" type="checkbox"/> Exclude Records			

Appendix

Firefox File Edit View History Bookmarks Tools Window Help Thu Jun 30 11:32 PM Peelingw

Web of Science [v.5...]

Search

Select	Cited Author	Cited Work	Year	Volume	Issue	Page	Identifier	Citing Articles **	View Record
<input type="checkbox"/>	INGWERSEN P	IN PRESS INFORMATION	1992					1	
<input checked="" type="checkbox"/>	INGWERSEN P	INFOR RETRIEVAL INTE	1992					1	
<input checked="" type="checkbox"/>	INGWERSEN P	INFORAMTION RETRIEVA	1992					3	
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<input checked="" type="checkbox"/>	INGWERSEN P	INFORMATION RETIREVA	1992					187	
<input checked="" type="checkbox"/>	INGWERSEN P	INFORMATION RETIREVA	1992			61		1	
<input checked="" type="checkbox"/>	INGWERSEN P	INFORMATION RETIREVA	1992			203		1	
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<input checked="" type="checkbox"/>	Ingwersen, P.	Information Retrieval Interaction	1992			256		1	
<input checked="" type="checkbox"/>	INGWERSEN P	INFORMATION RETIREVE	1992					1	
<input type="checkbox"/>	INGWERSEN, P	LIBRI	1992	42	2	99	10.1515/libr.1992.42.2.99	19	View Record in Web of Science Core Collection
<input type="checkbox"/>	INGWERSEN P	LIBRI	1992	42		101		1	
<input type="checkbox"/>	INGWERSEN P	LIBRI	1992	42		110		1	
<input type="checkbox"/>	INGWERSEN P	LIBRI	1992	42		134		1	
<input checked="" type="checkbox"/>	INGWERSEN, Peter	INFORM RETRIEVAL INTE	1992			1		1	

Select Cited Author Select Page Select All* Select All* Clear All Finish Search

Firefox File Edit View History Bookmarks Tools Window Help Thu Jun 30 11:39 PM Pellingw

Web of Science [v.5.22...]

Web of Science™

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Search

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My Tools Search History Marked List

Search History: All Databases

Set	Results	Combine Sets	Delete Sets
# 3	331 CITED AUTHOR: (ingwersen p*) AND CITED YEAR: (2005) Timespan=All years Search language=English	<input type="radio"/> AND <input type="radio"/> OR Combine	<input type="button" value="Select All"/> <input type="button" value="Delete"/>
# 2	343 CITED AUTHOR: (ingwersen p*) AND CITED YEAR: (1992) Timespan=All years Search language=English	<input type="radio"/> AND <input type="radio"/> OR Combine	<input type="button" value="Select All"/> <input type="button" value="Delete"/>
# 1	2,108 CITED AUTHOR: (ingwersen p*) AND CITED YEAR: (1980-2016) Timespan=All years Search language=English	<input type="radio"/> AND <input type="radio"/> OR Combine	<input type="button" value="Select All"/> <input type="button" value="Delete"/>

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94 cited documents [Back to document results](#) | [+](#) Add to list
 Document h-index : 19 Scopus does not have complete citation information for articles published before 1996. [View h-graph](#)



Date range: 2015 to 2001

- Exclude self citations of all authors
- Exclude Citations from books

Edit the data for this graph and the citation table below.

[Update](#)

Documents

Sort on: [Date \(newest\)](#) Citation count (descending) ...

	<2001	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Subtotal	>2015	Total	
Total	278	82	67	115	120	147	144	121	158	148	159	142	132	124	164	130	1953	44	2275	
1 Cognitive perspectives of information retrieval interaction:...		74	17	12	16	15	17	22	21	27	17	19	20	22	24	20	12	281	355	
2 The calculation of web impact factors		18	14	16	18	22	25	20	12	23	18	18	25	17	5	16	12	261	4	283
3 Informetric analyses on the world wide web: Methodological a...		20	11	5	19	23	27	12	10	13	17	17	23	15	17	26	23	258	5	283
4 Perspectives of webometrics		5	9	17	19	10	12	8	7	12	6	6	4	4	3	4	4	126	1	127
5 Toward a basic framework for webometrics		9	10	5	12	15	9	17	10	10	10	10	10	10	12	11	120	5	125	
6 The development of a method for the evaluation of interactiv...		15	5	5	12	6	3	4	7	15	12	10	4	6	8	3	5	105	1	121
7 Dimensions of relevance		1	3	2	3	4	8	17	12	7	6	10	8	11	7	9	5	112	2	115
8 Search procedures in the library-analysed from the cognitive...		43	5	7	1	4	1	5	3	6	2	3	2	5	9	2	55	1	99	



Peter Ingwersen

Appendix

6
Google Scholar

Professor
Information Retrieval, Sceintometrics,
Webometrics, Information Interaction

Citation indices	All	Since 2011
Citations	9065	3130
h-index	35	22
i10-index	88	45

Title	1–20	Cited by	Year
Information Retrieval Interaction:(click on title for download access via'Documents')	PER Ingwersen Taylor Graham	1061	1992
The turn: Integration of information seeking and retrieval in context	P Ingwersen, K Järvelin Springer Science & Business Media	1024	2006
Cognitive perspectives of information retrieval interaction: elements of a cognitive IR theory	P Ingwersen Journal of documentation 52 (1), 3-50	845	1996
Informetric analyses on the World Wide Web: Methodological approaches to'webometrics'	TC Almind, P Ingwersen Journal of documentation 53 (4), 404-426	828	1997
The calculation of web impact factors	P Ingwersen Journal of documentation 54 (2), 236-243	736	1998
Toward a basic framework for webometrics	L Björneborn, P Ingwersen Journal of the American society for information science and technology 55 ...	386	2004
Perspective of webometrics	L Björneborn, P Ingwersen Scientometrics 50 (1), 65-82	314	2001
The development of a method for the evaluation of interactive information retrieval systems	P Borlund, P Ingwersen Journal of documentation 53 (3), 225-250	248	1997
Search procedures in the library-analysed from the cognitive point of view	P Ingwersen Journal of documentation 38 (3), 165-191	247	1982
Dimensions of relevance	E Cosijn, P Ingwersen Information Processing & Management 36 (4), 533-550	242	2000
Information Seeking Research Needs Extension towards Tasks and Technology.	K Järvelin, P Ingwersen Information Research: An International Electronic Journal 10 (1), n1	202	2004

Information and Information Science in Context	172	1992
P Ingwersen Libri 42 (2), 99-135		
Measures of relative relevance and ranked half-life: performance indicators for interactive IR	136	1998
P Borlund, P Ingwersen Proceedings of the 21st annual international ACM SIGIR conference on ...		
Cognitive Information Retrieval.	133	1999
P Ingwersen Annual review of information science and technology (ARIST) 34, 3-52		
Polyrepresentation of information needs and semantic entities elements of a cognitive theory for information retrieval interaction	128	1994
P Ingwersen SIGIR'94, 101-110		
Information retrieval in context: IRiX	103	2005
P Ingwersen, K Järvelin Acm Sigir Forum 39 (2), 31-39		
Conceptions of information science	96	1992
PER Ingwersen Conceptions of Library and Information Science		
Data set isolation for bibliometric online analyses of research publications: fundamental methodological issues	86	1997
P Ingwersen, FH Christensen Journal of the American Society for Information Science (1986-1998) 48 (3), 205		
A cognitive view of three selected online search facilities	74	1984
P Ingwersen Online Review 8 (5), 465-492		
Distributed expert-based information systems: An interdisciplinary approach	68	1987
NJ Belkin, CL Borgman, HM Brooks, T Bylander, WB Crofts, P Daniels, ... Information Processing & Management 23 (5), 395-409		

Dates and citation counts are estimated and are determined automatically by a computer program.

Award of Merit Jury
Association for Information Science and Technology

28 June 2016

Dear Colleagues,

I write in support of the nomination of Professor Peter Ingwersen for the Association's 2016 Award of Merit. I have been closely acquainted with Dr. Ingwersen's research and other contributions to information science since we first met in 1977, when he was a member of the research team on the project "Cognitive aspects of information transfer in libraries" at the Royal School of Librarianship, Copenhagen. Since that time, I have very closely followed Ingwersen's research, often collaborating in various ways on our joint projects of development of the cognitive and interactional viewpoints in information science, and the integration of human- and system-oriented approaches to information retrieval into a single, coherent theoretical and empirical program. This long and deep experience gives me, I think, a unique perspective on Professor Ingwersen's contributions to information science.

Peter Ingwersen's contribution to information science is, in my opinion, unique in a very special way. He is the only scholar I know of in the field, past or present, who has made highly significant and influential contributions to so many different aspects of information science, in so many different ways. His 1982 paper, "Search procedures in the library: analysed from a cognitive point of view", in the *Journal of Documentation*, was among the very first to apply the cognitive viewpoint in an empirical study; it was immensely influential at the time, and remains a model for such research. A series of studies and papers followed this work, leading eventually to his 1992 book, *Information retrieval interaction*, in which he married concepts of people's interactions with information and information systems to the cognitive viewpoint in information science. This offered a new and expanded model for understanding, studying and supporting people in information retrieval systems. He then followed this up with his classic 1996 paper, "Cognitive perspectives of information retrieval interaction: elements of a cognitive IR theory", again in the *Journal of Documentation*. In this paper, he presented a model which identified and characterized all of the processes, actors and interactions amongst them, germane to a uniquely broad and inclusive understanding of information seeking. I, and many others, see work as the most complete statement of the cognitive and interactional viewpoint in information science, which has been the basis entire research programs by other scholars in information science.

Not content with his contributions to establishing the cognitive/interactional view as a model for information science, Ingwersen then began a research program of bibliometric studies of various sorts. Through a variety of studies and theoretical papers in this domain, he eventually developed theories and methods for studying the patterns of relationships amongst documents and actors in the World Wide Web, perhaps first best expressed in the important 2001 paper, "Perspectives of webometrics", co-authored with Lennart Björneborn, in *Scientometrics*. In this paper, they essentially established a new field in information science, providing the basis for entirely new ways to consider and study the structure and development of knowledge production in the electronically interconnected environment.

In the meantime, Professor Ingwersen continued his work in the cognitive viewpoint, applying these ideas to development of the concept of polyrepresentation, which he first introduced in his paper, " Polyrepresentation of information needs and semantic entities," at the 1994 Annual Conference of the ACM Special Interest Group in Information Retrieval. Polyrepresentation, the idea that information can, is, and should be represented in different ways within information systems, in order to respond to the differing contexts, needs and uses of different actors (including information seekers), has again proven to be remarkably influential. He himself, and many others, have followed up on this idea, leading to new ways to think about how best both to understand human behavior in information systems, and how best to design systems to support such behavior.

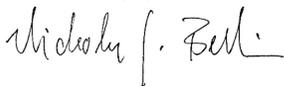
More recently, Professor Ingwersen, in collaboration with Professor Kalervo Järvelin, published a book, *The turn* (2005), which it is fair to understand as the basic, most comprehensive and inclusive attempt to integrate systems-oriented and human-oriented approaches to information retrieval in a single, encompassing framework. This book has been remarkably influential, and is a fundamental text for the field of Interactive Information Retrieval. The ideas and models expressed in this book have led to entirely new collaborations amongst previously (conceptually) remote researchers in information retrieval, sparking a host of new and significant studies, by themselves and by others.

So, in his research practice and publication, Professor Ingwersen has founded, or provided the basis for, at least four highly significant streams of research, and practice, in information science: the cognitive/interactional viewpoint; webometrics; polyrepresentation; and, integration of systems- and human-oriented information retrieval theory and method. As I stated earlier in this letter, I do not think that there is anyone in the field of information science who can claim impact on the field that is this broad and this deep. And I have totally skipped over his major contributions to our understanding of relevance. And many, many other contributions.

Professor Ingwersen, however, has not been satisfied with contributing only the influence of his research on the field. He has been tireless and original in organizing whole series of conferences and workshops devoted to these areas. For instance, he was the founder of the conference series, Information Interaction in Context (IiX), which was the first series of meetings designed to bring together researchers in information seeking, in human-computer interaction, and in information retrieval system design and evaluation. This series eventually, under Ingwersen's strong leadership, combined with a related workshop series, Human-Computer Information Retrieval (HCIR), to become the ACM SIGIR Conference on Human Information Interaction and Retrieval, which promises to become the focal point for presentation of research that embodies the ideas first presented in *The Turn*.

For all of the reasons given above, I think that it is clear that Professor Peter Ingwersen is an obvious and obviously outstanding candidate for the ASIS&T Award of Merit.

Sincerely yours,



Distinguished Professor of Information Science
Holder of the 2003 ASIS&T Award of Merit



June 29, 2016

Dear Members of the Awards Selection Committee,

I am writing in support of Prof. Peter Ingwersen's nomination for the *ASIST Award of Merit*. I am a professor in the School of Information and Library Science at the University of North Carolina at Chapel Hill and have known Peter for over fifteen years. Peter has made significant and sustained contributions to the field of information science, most notably in the areas of human information interaction and retrieval, and scientometrics, and is fully deserving of this award.

I first encountered Peter's work as a Master's student in information and library science. This is where many people first encounter Peter's work (or any information science research, for that matter). Peter's work provides an excellent model of how rigorous and insightful information science research can be to those new to information science, and of how research can be used to improve practice. In particular, his work encourages practitioners (and researchers) to more carefully consider the cognitive aspects of information seeking and the importance of integrating this perspective into information interactions, whether human-mediated or computer-mediated. I personally found his approach to understanding human information interactions, particularly in library settings, inspiring, and it had a huge impact on my decision to pursue a scholarly career in information science. (One of my favorites is, *Search Procedures in the Library analyzed from the Cognitive Point of View*, which highlighted some of the complexities of reference interactions and used naturalistic data to do so.)

Throughout his career, Peter has made many substantial and important contributions to information science. During the 1980s he conducted one of the first and most detailed investigations of people's interactions with human search intermediaries in order to inform the design of automated search intermediaries. This work was ground breaking and can be seen in today's automated "search intermediaries," such as iPhone's Siri. At a recent ACM SIGIR Conference, one of the major venues for information retrieval research, a representative from Google stated that automated search assistants, with which one could interact via voice-based dialogue, were the future of search. When I heard this, I smiled as I recalled Peter's early research that was conducted during a time when search at the scale we see it today was a fantasy and having people discuss their information needs with a machine was the stuff of science fiction (but Peter was in fact working on this anyway!).

Peter pioneered one of the dominant perspectives in information science, the cognitive perspective, which focuses not only on retrieval technology, but also on user's cognitive processing and information-seeking context. His book, *Information Retrieval Interaction*, which was first published in 1992 and has a citation count of 1061 (Google Scholar), quickly became required reading for most people working in the area of information retrieval, especially those interested in understanding more about how to design

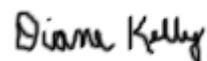
retrieval systems to support users. Since that time, Peter has produced a steady stream of high-quality and insightful research. One of the most remarkable things I noticed when examining his citation counts was the number of articles that still receive citations. For example, *Informetric analyses on the World Wide Web: Methodological approaches to 'webometrics,'* which was published in 1997, has averaged 17.2 citations per year since 2001 (Scopus). His most recent co-authored book, *The Turn: Integration of Information Seeking and Retrieval in Context*, where he and Professor Järvelin compiled and summarized over thirty years of research in information seeking and retrieval, has received 1024 citations according to Google Scholar. Since 2007, this book has averaged 102.8 citations per year. Throughout his career, Peter has been a strong advocate for the user perspective in information seeking and retrieval, challenging system builders who make strong and unrealistic assumptions about human behaviors and needs, and pushing all researchers to acknowledge, and sometimes incorporate, the complexities humans bring to the retrieval process.

Peter has also made significant contributions to scientometrics. My comments here will be shorter since this is not a specialty within which I work. His 3rd, 4th and 5th most cited articles overall are in this domain and have a combined citation count of 2,264. All three of these articles focused on the calculation of impact factors on the Web. These articles were published around the year 2000, well before most researchers started thinking about how the Web would change scholarly communications and the measures used to evaluate productivity and impact. Rather than dismiss the Web as a medium that would not change the nature of scientific communication, Peter recognized early on the potential and saw an opportunity to actively shape how this would develop.

Over the course of his career, Peter has received a number of awards in recognition of his research and teaching, including the *ASIST Research Award (2003)*, *Derek de Solla Price Medal (2005)*, *ASIST Outstanding Teacher Award (2007)* and most recently, the *Tony Kent Strix Award in Information Retrieval (2015)*. These awards show the broad impact and consistent quality of his research and teaching (he is also an amazing and generous mentor, but I will not discuss that here).

When I look at the list of past recipients of the *ASIST Award of Merit*, it is clear that Peter's name is needed. He has had a tremendous impact on this field and along with many others who are listed can be considered as one of the biggest proponents and drivers of the field of information science, and also one of the most recognized scholars. Peter's rigorous and thoughtful approach to his work has helped increase the quality of research conducted in information science and establish it as one with rich intellectual and analytical traditions.

Sincerely,



Diane Kelly



Re. Letter of support for Professor Emeritus Peter Ingwersen for the 2016 ASIS&T Award of Merit

30. June 2016

With this letter, I support the nomination of Professor Emeritus Peter Ingwersen for the 2016 ASIS&T Award of Merit. I have known Peter since 1996, first as lecturer and since as PhD supervisor, colleague, mentor and friend.

For decades, Professor Ingwersen has been the lead proponent of the cognitive viewpoint on Information Retrieval and has as such contributed significantly to the field of information science by insisting on the importance of a holistic view on IR that incorporates and bridges both the system and user side of IR. He has always been a strong, and at times controversial, voice reminding the IR community that the user and the user's understanding and comprehension of the material retrieved is the very foundation of Information Retrieval, and without a better understanding and theory of the user's cognitive processes in information seeking, we are leaving out the central core of the IR process. He has worked tirelessly to bring together the much divided communities (system-based IR and user-centred information seeking behaviour) to advance IR research and practices through his cross-field research, teaching, and services for various international conferences (as initiator, program chair, committee member, etc). In addition, he is recognised for his innovative and highly practical application of bibliometric and informetric approaches to the construction and use of information resources, structures and technologies on the web, which he coined "Webometrics" (J. Doc. 1997) and which has since had a tremendous impact far outreaching the borders of IR research.

A special characteristic of Peter's that I would like to emphasise is his attention and support to generations of young information scientists – both Master and PhD students as well as junior faculty. He has always showed a great interest in their work and ideas and has supported numerous young researchers and advanced their ideas and careers. This

includes students at the Royal School LIS as well as numerous students abroad who have benefitted from having Peter as their supervisor or informal mentor. Peter possesses distinct and remarkable qualities worth awarding, in that he is brilliant at identifying research problems and hence foresees new research opportunities due to his natural curiosity and extraordinary interdisciplinary overview of existing research. Students of his (myself included), have greatly benefitted from these talents over the years – and so has the research community. For these reasons, I support the nomination of Peter Ingwersen for the 2016 ASIS&T Award of Merit – he has made a difference that should be honoured!

Yours sincerely



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Professor Emeritus, Information Studies, University of Maryland

Letter of support for the nomination of Peter Ingwersen for the ASIST Award of Merit

Without question Peter Ingwersen has been and still is a highly influential figure in information science world-wide. Over a long and distinguished career he has built a significant body of research and scholarship; inspired students, young researchers, and colleagues in the many places where he served on the faculty; and has contributed to the fabric of the discipline by editorships and participation in promotion and tenure reviews.

Peter Ingwersen's major intellectual contribution lies in framing and systematizing the cognitive viewpoint in information science, an essential element in the conceptual framework for studying interactive information retrieval, bringing users and their contexts into the evaluation of IR systems, and task-based retrieval.

In his book *The Turn* (with Kalervo Järvelin 2005) Peter Ingwersen uses his power of thinking deeply through problems and applies this perspective to the analysis of a large body of pertinent research to bring home and clearly formulate a very important message (as stated in my review of the book): "Information seeking and retrieval (IS&R) is a very complex phenomenon; any one component cannot be understood without considering the other components it interacts with. It is suboptimal to build and test systems without understanding users' tasks and resulting information needs, as well as the cognitive structures held by users and the structure of documents and how they match." While this message is still ignored by many IR researchers to the detriment of the field, it has been widely heard as demonstrated by the over 1,000 citations of the book. In *The Turn* and other writings Peter Ingwersen lays out a framework and provides a very practical guide for such integrative research in information seeking and retrieval.

Recognition of Peter Ingwersen's contribution and role in shaping the field of information science through the ASIST Award of Merit will bring highly deserved honor to the awardee and maintain or increase the prestige of the award.



(1997 ASIST Award of Merit Winner)



School of Information Sciences

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June 21, 2016

ASIST Award of Merit Jury

Dear Jury Members:

I am writing in support of Dr. Peter Ingwersen's nomination for the ASIST Award of Merit. As you know, Dr. Ingwersen is Professor Emeritus at The Royal School of Library and Information Science, the University of Copenhagen. His contributions to Information Sciences education and research over the years have had an international reach, from the students he has mentored in numerous countries, to his intellectual insights and many research outputs, to the educational programs he led to prominence.

I do not need to repeat all of his accomplishments, which you can easily see in his C.V. and factual record. But I do want to point out a few seminal achievements that demonstrate clearly to me why he should be awarded this year's ASIST Award of Merit. Although his home university is the University of Copenhagen, Dr. Ingwersen has had additional faculty appointments in Spain, Finland, Norway, South Africa, Japan, Italy, and the United States. He has served on doctoral committees, tenure & promotion committees, and other service committees in universities around the world, thus sharing his expertise and knowledge globally—influencing students and faculty personally throughout the world.

In research, Dr. Ingwersen's important work in cognitive information retrieval and in webometrics has led to both practical and theoretical understanding of many fundamental issues in information science. He has worked with dozens of other researchers in a true collaborative spirit that has led to deeper understanding of the basic underpinnings of our discipline. Through his articles and books he has made a lasting contribution to our discipline that will continue to be cited by and built on by generations of scholars to come. His deep understanding and work on the difficult issues of theory building in the role of cognition in i.r. influence many researchers.

Dr. Ingwersen's distinguished career has already been widely recognized by others. For example he has been awarded three honorary doctoral degrees—the Dr. Ph. Honoris Causa by the Information Science Faculty of University of Tampere, Finland (2010); the Dr. Pol. Sc. Honoris Causa by Åbo Akademi University, Finland (2014), and the Dr. Ph. Honoris Causa by the University Carlos III

Madrid, Spain (2015). It is time for ASIST to recognize his outstanding influence and contributions. There is no more fitting time for Dr. Ingwersen to receive the ASIST Award of Merit than at the first ASIST meeting in his home town of Copenhagen.

Sincerely,

Carol Tenopir

Carol Tenopir, Chancellor's Professor and Board of Visitors Professor
School of Information Sciences, University of Tennessee

C U R R I C U L U M V I T A E
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1. EDUCATION

- 1990-1991 **Ph.D. Studies** (merc.). Copenhagen Business School. Faculty of Economics. June 1990-March 1991 on Intermediary Functions in Information Retrieval Interaction. Ph.D. degree received June 21, 1991
- 1969-1973 **Chartered librarian, MSc.** Royal School of Librarianship, Copenhagen. Diploma in librarianship. Thesis in catalogue use and indexing.

2. EXPERIENCE

- 2011-2012 **Chair of Excellence**, University Carlos 3, Madrid. Department of Library Science and Documentation. 6 month.
- 2010-2013 **Professor II** (20 %), Oslo University College, Norway, Library and Information Science
- 2006-2010 **Full Professor**, Royal School of Library and Information Science, Copenhagen, Denmark
- 2001-2005 **Research Professor**, Department of Information Studies, Royal School of Library and Information Science, Copenhagen, Denmark. Professor competence assessed by international examination board.
- 1999-2002 **NORFA Professorship**, Tampere University, Department of Information Studies, Finland. Seven weeks per academic year Affiliate Professorship sponsored by the Nordic Research Academy (Norfa), Council of Nordic Ministers. 1999.
- 1999 **Visiting Professor**. University of Pretoria. Department of Information Science. Republic of South Africa. 3 weeks, February. Subjects: Information science; information retrieval & seeking.

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- 1997 - **Docent** (Affiliate Professor). Åbo Academi University, Department of Information Studies, Finland. Professor competence assessed by international examination board.
- 1996 **Visiting Professor**. Keio University. Department of Information Science. Tokyo, Japan. 5 weeks, April-May. PhD & MSc courses in Information science; information retrieval & seeking.
- 1996 -2000 **Senior Researcher**. Centre for Informetric Studies. Royal School of LIS, Denmark. Research & development concerned with bibliometric/scientometric studies & research evaluation.
- 1993 -1996 **Head of Dept. of Information Retrieval Theory** (Informationsformidlingsteori). Royal School of LIS, Denmark. Research and education on PhD & MSc levels in: Information retrieval interaction; multimedia retrieval and evaluation; knowledge representation & transfer. Co-ordinator for the Danish MSc LIS Programme, full and part-time, 1st semester.
- 1990-1993 **Head of Master of Science Program in Library and Information Science**. Royal School of LIS, Denmark. Management of the programme and teaching in: Information science; Information retrieval theory; Indexing theory; systems & interface design; user modelling; knowledge-based systems.
- 1987 **Visiting Professor**. Rutgers University, Department of Communication, Information and Library Studies. N.J. USA. 4 month, Spring term. PhD and MSc courses in: Human information interaction; R&D methods; Online interviewing techniques.
- 1987-1990 **Associate Professor**. (Acting: 1984-86). Department of Design & Implementation of Specialised Information Services (VirkInfo). Royal School of LIS, Denmark. Planning and teaching LIS students as well as post graduates and industrial information professionals in: Information management; information systems design; knowledge organisation; database management and IR; information science theories; information economics.
- 1982-1984 **Research Fellow**. European Space Agency, ESA-IRS, Frascati, Italy. Two-year fellowship. Development of user aids for online searching of IRS' databases oriented towards computer aided self-instructional methods, i.e. development of IRS' term frequency analysis feature ZOOM; user-system inter-face improvements; design & organisation of menu-driven tutorial system; database design and management.
- 1973-1982 **Assistant Professor**. Department of Cataloguing and Classification Theory. Royal School of LIS, Denmark. Teaching in: Information retrieval theory and practice; cataloguing and indexing; knowledge classification & organisation; requirement analysis; search interview techniques; online IR strategies.

2.1 Research Evaluation Committees for Full Professor Positions & University Departments

- 2015 **Novo Nordisk Foundation**, evaluating af “*The Baseline Impact Report 2015*” *dækkende 1929-2015*.
- 2015 **Nordic institute for studies in innovation, research and education (NIFU)**, Oslo, Norway, Antje Klitkou for promotion to Research Professor

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- 2014 **University Carlos 3, Madrid, Spain**, Humanistic candidates for the CONEX programme.
- 2013 **Universitets- og Høgskolerådet**, Norway, evaluering af rapport om den Norske Forskningsindikator.
- 2013 **Penn State University**, USA, Bernard Jansen for promotion to the rank of Full Professor
- 2012 **Norwegian Institute for Research Analysis (NIFU)**, Dag Aksnes for professorship
- 2009 **University of Tennessee, Knoxville, USA**, Peiling Wang for Full professorship.
- 2008 **Leiden University**, CWTS, Departemental and centre evaluation panel.
- 2008 **University of Tampere, Department of Information Studies, Finland**, Assessment of the Research Activities of the Department 2005-06.
- 2008 **University of Michigan at Milwaukee, USA**, Iris Hong for full professorship
- 2007 **Academy of Finland**. Panel Evaluation of 7 five-year Academy Research Fellowships and 7 one year research funding for senior researchers.
- 2006 **Loughborough University, UK**, Professor Charles Oppenheim evaluation for Dr. Sc.
- 2005 **Humanities and Social Sciences CSIC, Madrid** (Spanish Council for Research), 8 Social Science Centres' strategic five-year plans.
- 2005 **Royal School of Library and Information Science**, Denmark. Full Professor (Niels Ole Pors)
- 2004 **University of Pittsburgh, School of Information Sciences, USA**. Full Professor (Amanda Spink).
- 2004 Det Strategiske Miljøforskningsprogram. Slutevaluering af det tværinstitutionelle programs 9 centre, 1993-2002. (The Danish Strategic Environmental Research Program. Final research evaluation of the 9 research centres, 1993-2002). See Publ. 1.13.
- 2003 **Rutgers University, Department of Library and Information Studies, USA**. Full Professor II, School of Communication, Information and Library Studies (Carol C. Kuhlthau)
- 2003 **Norwegian School of Management (BI), Oslo, Norway**. Examination Board. Full Professor position in Information Systems Development and Management.
- 2002 **University of California, Los Angeles (UCLA), USA**. Full Professor VI, Department of Information Studies (Christine Borgman).
- 2000 - 2008 **Norway Research Council**. Evaluations of research applications within the sectors of social sciences, culture and society.

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- 2000 **University of Pretoria**, Republic of South Africa. International departmental research evaluation committee, February 2000 (Department of Information Science).
- 2000 **University of California, Los Angeles (UCLA)**, USA. Full Professor II, Department of Information Science (Marcia Bates).
- 1999 **Umeå University, Faculty of Social Sciences**, Sweden. Examination Board. Full Professor position in Library & Information Science (Olle Persson)
- 1998 **The Hebrew University of Jerusalem, Faculty of Social Sciences**, Israel. Full Professor position in Bibliometrics, School of Library, Archive & Information Science (Bluma Peritz).
- 1997 **Rutgers University, Department of Library and Information Studies**, USA. Full Professor II, School of Communication, Information and Library Studies (Nickolas Belkin).
- 1997 **Rutgers University, Department of Library and Information Studies**, USA. Full Professor, School of Communication, Information and Library Studies (Carol Kuhlthau).
- 1997 **Syracuse University, School of Information Studies**, USA. Full Professor (D. Liddy).
- 1996 **Human Sciences Research Council, Republic of South Africa**. Evaluation of research on informatisation of society and curriculum development in the field of Information Science.
- 1996 **University of California, Berkeley, School of Information Management and Systems**, USA. Full Professor (Ray Larson).
- 1993 **University of Oslo, Faculty of History and Philosophy**, Norway. Examination Board. Competence assessments for Professorial positions. Department of Media and Communication.
- 1993 **University of Tampere, Faculty of Social Sciences**, Finland. Examination Board. Professorship in Library and Information Science, Department of Information Studies.

2.2 Doctoral assessment committees

- 2016 **University Carlos III Madrid**, Spain, Lilliana Melgar
- 2014 **University Carlos III Madrid**, Spain, Antonio Eleazar Serrano-Lopez
- 2013 **Copenhagen Business School**, Denmark, Esben Alfort
- 2013 **Royal School of LIS, Aalborg Branch**, Jens Peter Andersen
- 2013 **University of Twente**, The Netherlands, Frans van der Sluis
- 2010 **University of Glasgow, Department of Computing Science**, Scotland, UK, Ioannis Arapakis
- 2009 **Åbo Akademi University, Department of information Studies, Finland**, Kim Holmberg:

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- 2008 **Royal School of Library and Information Science, Aalborg, Denmark**, Brian Kirkegaard
- 2007 **University of Antwerpen, Belgium**, Liming Liang
- 2007 **Åbo Akademi University, Department of information Studies, Finland**, Pia Södergård
- 2007 **Strathclyde University, Scotland, UK**, David Elswailer
- 2004 **University of Glasgow, Department of Computing Science**, Scotland, UK, November 2004 (Ryen White): Implicit feedback for interactive information retrieval
- 2003 **University of Pretoria. Department of Information Science & Technology**. April (Erica Cosijn): Relevance Judgments in Information retrieval.
- 2002 **Tampere University, Department of Information Studies**, Finland, June 2002 (Nils Pharo): The SST Method Schema: A Tool for Analysing Work Task-Based Web Information Search Processes.
- 2002 **Copenhagen University, Department of Computer Science**, Denmark, March 2002 (Kasper Hornbæk): Usability of Information Visualization: Reading and Interaction Processes. .
- 2001 **University of Glasgow, Department of Computing Science**, Scotland, UK, December 2001 (Ian Ruthven): Abduction, Explanation and Relevance Feedback.
- 2001 **Umeå University, Department of Sociology**, Sweden, June 2001 (Rickard Danell): Internationalization and Homogenization: A bibliometric Study of International Management Research.
- 2001 **University of Glasgow, Department of Computing Science**, Scotland, UK, May 2001 (Iain Campbell): The Ostensive Model of Developing Information Needs.
- 2000 **University of Helsinki, Department of General Linguistics**, Finland, December 2000 (Timo Lathinen): Automatic Indexing: An Approach Using an Index Term Corpus and Combining Linguistics and Statistical Methods.
- 1999 **Leiden University, Faculty of Social Sciences**, Netherlands, December 1999 (Ed. Noyons). Scientometrics & Information retrieval.
- 1999 **University of Tampere, Faculty of Social Sciences**, Department of Information Studies, Finland. May 1999 (Katriina Byström). Information Seeking.
- 1998 **Mysore University**, India. Library and Information science, April 1998. Informetrics.
- 1998 **University of New South Wales, School of information, Library and Archive Studies**, Australia. May 1998 (William Hood). Informetrics.
- 1998 **University of Oslo, Department of Media and Communication**, Norway. February 1998 (Arne Krokan). Information Science & Management.
- 1995 **Mysore University**, India. Library and Information science, August 1995. Informetrics.

1994 **Copenhagen Business University, Faculty of Economics**, Denmark. October 1994 (Gert Schmeltz Pedersen). Information retrieval.

1994 **University of Sheffield, Department of Information Studies**, UK. February 1994 (Charles Cole). Information seeking.

2.3 *Tenure evaluations*

2013 **Pennsylvania State University**, USA, Jim Janssen
 2011 **Indiana University**, USA, Ying Ding
 2010 **University of North Carolina, Chapel-Hill**, USA, Diane Kelly
 2000 **University of New South Wales, School of Info., Library and Archive Studies**, AUS.
 2000 **University of Tennessee, School of Information Sciences**, USA.
 1999 **The Hebrew University of Jerusalem, Faculty of Social Sciences**, Israel.
 1999 **Pennsylvania State University, School of Information Sciences and Technology**, USA
 1999 **University of North Texas, School of Library and Information Sciences**, USA.
 1992 **University of Illinois, Department of Library and Information Science**, USA.

2.4 *Editorial board memberships and peer reviewing*

2007- **Journal of the China Society for Scientific and Technical Information (CSSTI)**,
Editorial Board
 2006- **Journal of Informetrics**, *Editorial Board*
 2003- **Proceedings of National Academy of Science (PNAS)**, paper reviewing.
 2002- **Journal of American Society for Information Science & Technology (JASIST)**,
Editorial Board.
 2002-2006 **Information Research**, UK, *Editorial Board*
 2002- **South African Journal of Libraries and Information Science**, RSA, *Ed. Board*
 2001- **Scientometrics**, Hungary, *Editorial Board*
 2000-2004 **Annual Review of Information Science & Technology, (ARIST)**, USA, *Ed. Board*
 2000-2010 **Norwegian Research Council**, research proposals
 1998- **Cybermetrics**, Spain. *Editorial Board*
 1993-2002 **Journal of Documentation**, Aslib, London, UK. *Editorial Board.*
 1989- **Information Processing and Management**, North Holland, USA, *Editorial Board.*
 1991-2003 **Library and Information Science Abstract**, LA, London, UK, *Editorial Board.*
 1992-1995 **Journal of Document and Text Management**, Taylor Graham, UK, *Editorial Board.*
 1984-1995 **Il Bibliotecario**, University of Rome, Italy, *Editorial Board.*
 1986-2002 **Journal of American Society for Information Science (JASIS)**, USA. Paper reviews.
Library Quarterly, USA, Paper reviews
Management Information Systems Quarterly (MIS Q), USA. Paper reviews.
Information Management Report, UK (1986-92). Paper reviews.
 1978 - 1990 **The British Library, R&D Department**, London, UK. Project assessments.

3. AWARDS, HONORS AND GRANTS

- 2015 Tony Kent Strix Award in Information Retrieval, The UK e-information Group (UKeiG).
- 2015 Doctor of Philosophia, honoris causa, University Carlos III Madrid, Spain, January
- 2014 Doctor of Political Science, honoris causa, Åbo Akademia University, Finland, May
- 2010 Doctor of Philosophia, honoris causa, Tampere University, Finland, May.
- 2009 ASIS&T Contributions to Information Science and Technology Award (CISTA). The LA Chapter of the American Society for Information Science and Technology, USA (Received February 2010)
- 2009 Lazarov Memorial Lecture, University of Tennessee, Knoxville, October 2009
- 2007 The ASIST Outstanding Teacher Award in Information Science Award, the American Society for Information Science and Technology (ASIST), USA.
- 2005 The Derek de Solla Price Medal 2005, Awarded by the journal *Scientometrics & International Society for Scientometrics and Informetrics (ISSI)*.
- 2005 The Thomson 2005 Award of Excellence, as most cited Danish researcher in the Social Sciences 1990-2004.
- 2003 ASIST Research Award in Information Science, the American Society for Information Science and Technology (ASIST), USA
- 2002 Lazarov Memorial Lecture. The Information School, University of Washington, Seattle, March 1, 2002
- 1994 ASIS - New Jersey Distinguished Lectureship Award, Rutgers University, USA.
- 1993 Jason Farradane Award in Recognition of his Service to Information Science, Institute for Information Scientists, London, UK.
- 1992 The Anne V. Marinelli Lecture Series. Texas Woman's University, School of Library and Information Studies, Denton, texas, USA. March, 25.
- 1992 Award for the development of the MSc Programme in LIS, 20.000 DKK, Royal School of Librarianship, Copenhagen, Denmark.
- 1990 Fellow of the Library Association, London, UK.

3.1 Grants & Research Funding, major projects

- 2011- SAPIENS: Scientometric Analyses of the Productivity and Impact of Eco-economy of Spain, funded by the Spanish Ministry of Economy and Competitiveness under the project CSO2010-21759-C02-01 titled “Análisis de las capacidades científicas y tecnológicas de la eco-economía en España a partir de indicadores cuantitativos y cualitativos de I & D” (Analysis of scientific and technological capacities of Eco-economy in Spain, throughout I

- & D quantitative and qualitative indicators), and by Carlos III University of Madrid-Banco de Santander Chairs of Excellence Program for 2011/2012 academic year. Project period: 2011-13.
- 2010 - 2013 I-Search project on building a IR test collection with citations and full text in the field of Physics – internal university funding.
- 2008 Kulturministeriets Forskningsråd (The Research Council of the Danish Ministry of Culture). 517.000 DKK. Research grants for the fiscal year 2009-10 for the project RIX (Retrieval in Context).
- 2004 Kulturministeriets Forskningsråd (The Research Council of the Danish Ministry of Culture). 440.000 DKK. Research grants for the fiscal year 2005 for the Humanist Portal Project.
- 2003 Det Strategiske Miljøforskningsprogram (The Strategic Danish Environmental Research Programme), 120.000 DKK. Sponsorship for the final evaluation of nine environmental R&D centres.
- 2002 NORDINFO (Nordic Council for Scientific Information). 187.000 DKK. Research grant for the Web-TAPIR Project (Text Access Potentials for interactive IR on the Web)
- 2001 - 2003 Kulturministeriets Forskningsråd (The Research Council of the Danish Ministry of Culture). 504.000 DKK + 335.000 DKK. Research grants for the fiscal years 2002-3 for the TAPIR Project (Text Access Potentials for interactive IR)
- 2001 - 2003 Forskningstyrelsen (Danish Research Agency), Statens Sundhedsvidenskabelige Forskningsråd (Danish Medical Research Council) (sag: 22-00-0647). 115.200 + 55.200 = 170.400 DKK. Research grant for the study of the SCI coverage 1998 of Danish Health research.
- 1999 Det Strategiske Miljøforskningsprogram (The Strategic Danish Environmental Research Programme), 70.000 DKK. Sponsorship for the mid-term evaluation of nine environmental R&D centres.
- 1997 Nordic Research Academy (NORFA), 388.000 NOK. Grant to manage and chair the Nordic Research Education Course: Integration of Information Seeking and Retrieval (Norfa # 98.10.025-0 / 98.65.012-B); April/May 1998, Denmark and Finland.
- 1997 Danish Foreign Ministry, DANIDA. 2.3 Mill. DKK. With Irene Wormell. Grant to establish, manage and run the South African Research Course (DissaNet), 1998-2000, at Pretoria University, RSA.
- 1996 Nordinfo. Travel and accomodation funding for invited key-note speakers, CoLIS 2 Conference, Copenhagen, Denmark, 1996.
- 1989 Rektorkollegiet, Denmark. Travel grant for participation in the ACM/SIGIR Conference, Boston, USA, June, 1989.
- 1980 Knud Højgaards Fond, Denmark. Travel grant for information studies at the European Space Agency, ESA-IRS, Frascati, Italy. 1980/1981.
- 1978-1980 Edward Petersens Biblioteksfond & Steenbergfonden, Denmark. Research grants in relation to the project "Cognitive aspects of information transfer in libraries", with Poul Timmermann.

4. SCIENTIFIC ACTIVITIES

4.1 Basic Research I: Perspectives of the Cognitive Theory for IR

- 2001-2010 **Text Access Potentials for interactive Information Retrieval (TAPIR) Project.** The project aims at the study of interactive IR of scientific information objects by means of document structures and the variety of cognitively different interpretative representations (polyrepresentation) of such objects over time, assumingly leading to cognitive overlaps of such representations in decreasing order of relevance. Examples of cognitively different representations are: text terms, human indexing terms, received citations, conceptual thesaurus term relationships, etc. (see e.g. publ. # 0.19; 2.44-2.45; 3.22; 3.24; 3.28; 3.30; 3.34-3.36; 3.38-3.41; 4.1.20).
- 1997-2000 **European Commission, the MIRA LTR Project,** (Esprit #20039): Interactive Multimedia Retrieval & Evaluation. With 13 other EU and Swiss research partners. Experimental evaluations and recommendation, 3-year Long Term Research project (see publ. #: 2.32; 3.15; 3.19; 3.20)
- 1994- **Consequences of a cognitive theory for IR.** Analyses and empirical investigations based on Ph.D. work, leading to the integration of system-driven and user-centred approaches to IR, and the concept of Polyrepresentation or multi-evidence, cognitive retrieval overlaps, inconsistency and uncertainty use, cognitive online searching, and novel relevance measures. Royal School of LIS (see publ. #: 2.18; 2.19; 2.22; 2.32; 2.33; 3.11; 3.11-3.12; 3.17; 4.1.11)
- 1990-1991 **PhD Project: Intermediary functions in information retrieval interaction.** Copenhagen Business University & Royal School of LIS, Copenhagen, Denmark. Development of a framework and model of functional requirements for intermediary mechanism (interface) analysis, assessment and design, based on a cognitive epistemological view. (See publ. #: 0.5 and 0.6.)
- 1975-1980 **Cognitive aspects of information transfer in libraries.** With Poul Timmermann. Empirical investigations of the mental and behavioural processes involved in user-intermediary-system interaction and IR processes. Results are based on qualitative analyses of recordings of actual IR events in different Danish libraries. Completed. (Final reports, see publ. #: 2.2; 3.1; 3.2; 5.1.1/2).

4.2 Basic research II: Informetrics and webometrics

- 2009 - **Research evaluation methodologies.** Effects of document types and publication performance system on research evaluation and citation impact in scientific fields and at national levels. (See publ. # 2.57; 2.63; 2.68-2.70)
- 2006 - 2012 **Publication Point and Scientific Dataset Indicators.** Publication point indicators seen as measures of publication success; (biodiversity) dataset indicators (with Dr. Vishwas, GBIF) seen as impact measures of influence/use of scientific biodiversity datasets (see publ. # 2.56-2.58)
- 1997 - 2004 **Webometric analyses and methodologies.** Web impact factor analyses, webometric mapping of academic webspaces (with Lennart Björneborn) (See e.g. publ. # 2.23; 2.26; 2.35; 2.42; 2.44).

1996 - 2000 **Publication & citation analysis methodologies..** With Irene Wormell (-2000) and Finn Hjortgaard Christensen (-1998) in the Center for Informetric Studies, and international co-operation. Empirical investigations into online data collection and analysis methods in scientific databases as well as on the Internet. (See CIS Report series and e.g. publ. #: 0.11; 1.11; 2.20; 2.21; 2.23; 2.25; 2.26; 2.28-2.31; 2.34; 2.37; 2.43; 2.49; 2.55; 3.21; 4.1.14).

4.3 Applied research

1990 - **Research evaluation projects.** Centre for Informetric Studies, Royal School of LIS, Copenhagen, Denmark (from 1996-2000). Empirical national and Scandinavian publication and citation analyses of Science and Technology fields; research programme evaluations; collaboration with the Danish Research Council for the Health Sciences, from 1999. (See publ. #: 0.11; 1.13; 2.28; 2.29; 2.31; 2.34; 2.38; 4.1.6; 5.1.20).

1982-1989 **Online information retrieval and knowledge representation.** ESA-IRS, Frascati, and Royal School of LIS. Studies and modelling of online retrieval feedback features (e.g. term frequency feature Zoom) and types of knowledge representations for query expansion (see publ. #: 2.3; 2.7; 2.8; 2.10; 2.11; 2.15; 3.6; 3.9; 4.1.2).

4.4 Research educational courses and seminars at Ph.D. level

2010- **Åbo Akademi University, Department of Information Studies, Finland.** Semestrial PhD courses of one week duration. Primarily in information science and methodological issues.

2008-2010 **University Carlos III, Madrid, Department of Information Science, Spain.** Annual PhD-courses, primarily on information retrieval and scientometric issues.

2005 **NORSLIS Roadshow** in Integrating IS&R in Conetxt. Tampere (March) & Copenhagen (Sept.), 2 days each location.

2004 **University Carlos III, Madrid, Department of Computer Science, Spain.** One day doctoral seminar, October.

2003 **European Summer School in Information Retrieval (ESSIR).** September, 2003, Aussois, France. One week course (2 ECTS).

2003 **Bibliometrics and Decision Management.** One day seminar. August, 2003. Shanghai, China & Taipei, Taiwan. With Professor Irene Wormell, Borås, Sweden.

2003 **Integrating research on information seeking & retrieval in context.** Research course (5 ECTS). March 2003. With Pia Borlund and Peiling Wang, University of Tennessee, USA. Copenhagen, Dept. of Information Studies, Royal School of LIS.

2001 **Informetrics and scientometrics.** NORFA-sponsored research course (10 ECTS). June (Denmark) and August (Umeå, Sweden). Selected lectures on webometrics and research evaluation methodologies.

1999-2000 **Information science and scientific communication.** Chairing and executing one week doctoral course (5 ECTS) at Åbo Academy University, Dept. of Information Studies, Finland. November 1999 and Spring 2000, as NORFA Visiting Professor.

- 1998-2000 **Developing information science in South Africa.** Development, managing and executing the doctoral network DissaNet with Irene Wormell. The network carry out two one-week intensive Ph.D. seminars yearly centred around Pretoria, RSA, and sponsored by the Danish Developing Aid (Danida), (see publ. #: 2.31; 2.32).
- 1999 **Århus University, Faculty of Health Sciences and Medicine.** Half-day workshop for faculty and doctoral students on Scientometric analysis methods in research evaluation, February.
- 1998 **Information retrieval and online bibliometrics.** Executing one week Ph.D. seminar at Tampere University, Dept. of Information Studies, Finland. November. Partly sponsored by Norfa, (see publ. #: 2.30).
- 1998 **Integration of information seeking and retrieval.** Development, execution and chairing the official two-week Nordic Research Academy (Norfa) doctoral course with Nordic & international presenters. April (Denmark) and May (Finland), (see publ. #: 2.33).
- 1995-1996 **Information science conceptions.** Half-day lectures at two Norfa sponsored Nordic Ph.D. courses, chaired by Professor Johan Olaisen (Oslo Business School) and Professor E.Munch-Petersen (Gothenburg University).
- 1995 **Cognitive Perspectives of IR Interaction.** Distinguished Ph.D. seminar in IR, Dept. of Computing Sciences, Glasgow University, UK (14/9)
- 1995 **User Interfaces.** Half-day seminar at European IR Ph.D. Summer School, Dept. of Computing Sciences, Glasgow University. September. Sponsored partly by British Computer Society.
- 1993-1996 **Information and information science.** Two-day seminars, March; annually. Norwegian Business School, Oslo (MBA-level).
- 1992 **Information Science and IR Interaction.** Executing one week seminar at Tampere University, Dept. of Information Studies, Finland. September.

4.5 Doctoral supervision Denmark

- 2014- Lorna
- 2012 – 2014 Jonas
- 2010 **Sonia Cuadrado**, Carlos III University, Madrid. Three month research visit.
- 2008 **Isabel Ibarren**, Carlos III University, Madrid, three month research visit.
- 2004 **David Eisweiler**, Strathclyde University, Scotland, UK, 6 weeks research visit, October-November 2004.
- 2004 - 2009 Cand.scient.bibl. **Mette Skov**, Royal School of LIS, Copenhagen. Topic: Taxonomy development in a Museum context (see publ. # 3.34)
- 2003 Carlos Suarez Balseiro, University Carlos III, Madrid, Spain. 3 weeks research visit. November.

- 2001 - 2006 Cand.scient.bibl. **Jette Hyldegaard**, Royal School of LIS, Copenhagen. Topic: Social interaction and interface design and usability.
- 2001 - 2004 Cand.scient.bibl. **Jesper Schneider**, Royal School of LIS, Aalborg. Topic: Thesaurus design by means of informetric/bibliometric methods.
- 2001 - 2003 Cand.scient.bibl. **Erik Thorlund Jepsen**, Royal School of LIS, Copenhagen. Topic: Metadata as means to retrieval in hypertext structures.
- 2000 - 2004 Cand.scient.bibl. **Lennart Björneborn**, Royal School of LIS, Copenhagen. Topic: Small-world phenomena on the World Wide Web. Recipient of the ASIS&T Doctoral Award, 2004.
- 2000 - 2004 Cand.scient.bibl. **Birger Larsen**, Royal School of LIS, Copenhagen. Topic: Application of polyrepresentative retrieval methods in scientific IR.
- 1999 - 2002 Cand.scient.bibl. **Marianne Lykke Nielsen**. Royal School of LIS, Aalborg. Ph.D. student at Åbo Academy University, Faculty of Social Science. Supervision as Docent at the faculty. Topic: Modelling and empirical investigation of user-centred thesaurus construction (see publ. #: 3.19).
- 1996/1997 Dr. **Noriko Kando**, Nacsis, Tokyo, Japan. 6 month post-doctoral study visit at the Department of IR Theory, Royal School of LIS, Denmark. September - March.
- 1996 - 2000 Cand.scient.bibl. **Pia Borlund**. Royal School of LIS, Copenhagen. Ph.D. student at Åbo Academy University, Faculty of Social Science. Supervision as Docent at the faculty. Topic: Development of methods for the evaluation of interactive information retrieval systems.

4.6 Consulting work: Major activities

- 2003 **Det Strategiske Miljøforskningsprogram**. (The Strategic Danish Environmental Research Programme). Final research evaluation of 9 research centres. (See publ., 5.1.25; 1.13).
- 2001-2002 **Statens Sundhedsvidenskabelige Forskningsråd** (Danish Medical Research Council). Guidelines for the application of bibliometric research evaluation methods; The journal coverage of Science Citation Index for Danish health research 1998. (See publ. 1.14).
- 1999 **Det Strategiske Miljøforskningsprogram**. (The Strategic Danish Environmental Research Programme). Scientometric evaluation of 9 research centers under the programme. Publication and diachrone citation analyses. February-March. (See publ. #: 5.1.20).
- 1997 **The Human Sciences Research Council, Republic of South Africa**. Recommendations in relation to research on informatisation of society and curriculum development in the field of information science in RSA. With Irene Wormell. One month consulting, March. (Report: 5.1.18).
- 1989-1997 **Expert reviewer, invited by the Commission of the European Communities, DG XIII, Bruxelles:**
ESPRIT project 2083, SIMPR, Structured Information Management, Processing and Retrieval, 1989-91.

ESPRIT III research proposals, November, 1991 & 1995.

Long Term Research, Esprit Project 8134, FERMI, Evaluation of retrieval of multi-media information, 1995-97.

- 1988-1991 **Danish Parliament.** Development and interface design of the Parliament's information system, in particular the knowledge organisation and representation, and thesaurus construction (see publ. #: reports 5.1.11-5.1.15; 1.10)
- 1988-1989 **Dansk Datamatik Center/CRI, Lyngby, Denmark.** IR Interface functionality design, **The Euromath Project.** (See publ. #: 3.9).
- 1987-1989 **Dansk Datamatik Center, Lyngby, Denmark.** Advising and evaluating the "**KIWI Information Retrieval Assistant**" (**KIRA**) under the KIWI Project (ESPRIT 1117), developing a knowledge-based, user-friendly system for utilisation of information bases. (See publ. #: 2.10; 2.11).
- 1984-1985 **The European Space Agency, ESA-IRS, Frascati, Italy.** Completing the ESA-Quest online menu tutorial system into a 2.000 screen page configuration, structured in a hypertext-like navigational format. (See publ. #: 2.7).

4.7 Consulting work: Minor activities

- 1995; 1997 **Instituttet for Fremtidsforskning** Scientometric analyses of the development of management concepts 1979-1994; 1990-1996. Denmark
- 1989 **Invited expert by the Commission of the European Communities, DG XIII.** Round Table Workshop on the Simplified Access to Information and Normalized Transfer (SAINT Project) Luxembourg
- 1989 **Politiken Newspaper. Design models for the photo archive system.** Denmark
- 1989 **Rebild Research Partners.** World wide bibliometric trend analyses of R&D in Food Science & Packaging. Denmark
- 1988-1992 **Information Management Report.** (Formerly: Outlook on Research Libraries). Advisor for Scandinavian input to the newsletter. UK
- 1988 (Aug.) **Unesco Project HUN/87/010.** Supervision of ongoing project developing an IR interface for distributed online databases. Hungary
- 1983 **NORDINFO-seminar on Psychological Aspects of Information searching,** Royal School of LIS, 14-18. Nov., 1983. External adviser, Sep.-Nov. 1983 Denmark
- 1981-1982 **ESA-IRS, Frascati.** Compilation of the ESA-Quest User Manual Sections for the following databases: INSPEC, NTIS, NASA, EDF-DOC. Italy

5. SCIENTIFIC AND CURRICULUM PROGRAMME COMMITTEES

5.1 Committees: Major activities

2008-	Advisory Board of the International Collaborative Academy of Library and Information Science (ICALIS), Wuhan University, China	International
2007-	The Board of the International Society for Scientometrics and Informetrics (ISSI)	International
2006	Conference co-Chair of the First Symposium on Information Interaction in Context, Copenhagen, October	International
2004 - 2008	Nordic Research School in Library and Information Science (NORSLIS). Sponsored by Norfa. Member of the Board, representing Denmark.	Scandinavian; Baltic
2002	African-Asian-Pacific Programme Chair & Conf. Co-Chair, 3rd CoLIS Conference on Conceptions of Library and Information Science, Seattle, July	International
1995 & 2000	European Programme Chair, ACM-SIGIR Conferences	International
2000	Programme Committee member, 3rd ISIC Conference on Information Seeking in Context, Gothenburg, August.	International; Sweden
1999	European Programme Chair & Conf. Co-Chair, 3rd CoLIS Conference on Conceptions of Library and Information Science, Dubrovnik, May, 1999.	International; Croatia
1998-2000	Nordic Information Studies Network (NordisNet). Norfa Research Network. Board member, representing Denmark	Scandinavia
1995 -	Programme Committee member, The Conference of the International Society for Scientometrics and Informetrics (ISSI).	International
1995-1996	Conference Chairman of the 2nd CoLIS Conference on Conceptions of Library and Information Science, Copenhagen, June 1996.	International; Denmark
1991-1992	Conference Chairman of the 15th ACM-SIGIR Conference on R&D in Information Retrieval. Copenhagen, June, 1992	International; Denmark
1991, Nov.	Chairman of the ESPRIT '90 Conf. Session: Life-Cycle of a Document	Bruxelles, EEC
1990-1991.	Member of the Conference Committee of the CoLIS 1 Conference. August 1991.	Tampere, Finland
1989-1990	Member of the Curriculum Planning Committee for the MSc course in Library and Information Science, Royal	Denmark

	School of LIS.	
1989 -	Invited member of the Program Committee of the ACM/SIGIR Conf. on R&D in Information Retrieval.	International
1985-1986	Chairman of the Planning Committee for Curriculum Development of the two-year MSc in Information Science. Royal School of LIS.	Denmark
1984-1985	Chairman of the Organizing Committee of the NORDINFO Conference on Information Technology as a Tool for Information Use. Copenhagen, May 8-10, 1985	International
1984-1985	Member of the Organizing Committee of the 6th International Research Forum on Information Science (IRFIS 6), Frascati, Italy, Sep. 15-18, 1985	International
5.2 Committees: Minor activities		
1986-1997	Member of the Council of Library Education, appointed by the Ministry of Culture.	Denmark
1983-1988	Member of The Standing Committee of the International Research Forum in Information Science, (IRFIS), representing ESA-IRS 1983-1984, Denmark 1984-86.	International
1988 - 1978-1980	Member of the Board. Member of the Executive Board, 1978-80. Royal School of LIS.	Denmark
1977-1979	Chairman of the Curriculum Planning Committee for Library and Information Studies (Informationskundskab), Royal School of LIS.	Denmark
1977	Member of the Organising Committee for the Second International Research Forum in Information Science, (SIRE). Copenhagen, Aug. 3-6.	International
1976-1978	Member of the Study Board, Royal School of LIS.	Denmark

6. KEY-NOTES AND INVITED LECTURES

6.1 Key-notes

- 2010 **Seminar in honor of Tefko Saracevic**, Rutgers University, USA, November 7-8. Keynote on historic developments.
- 2009 **CNAIS Conference**, Wuhan, China, Key-note address, October 2009.
- 2008 **LIDA Conference**, Dubrovnik, Keynote and Honoured Guest, June 2008.
- 2008 **FADOC conference**, Madrid. Keynote, spring, 2008.
- 2007 **Research Evaluation**. Invited lecture, Danish Institute for International Studies, Copenhagen, March 22.
- 2006 **Webometrics: Ten years of expansion**. In: Proceedings of the International Workshop on Webometrics, Informetrics and Scientometrics & 7th COLLNET Meeting, 10-12 May, 2006: 6-8 (Keynote).
- 2006 **Tracking Scientific Information**. Invited lecture, RILEM Conference on Volume Changes of Hardening Concrete: Testing and Mitigation. DTU, August 23.
- 2005 **Beyond Google**. Invited lecture, Frankfurt Book Fair, October.
- 2004 **IR Research Approaches and Models**. Key-note opening the doctoral seminar, October 13. Universidad Carlos III. Madrid.
- 2003 **Users in IR Context**. Invited 4 lectures in the ESSIR 2003 European Summer School in IR, August 31 – September 5, Aussois, France.
- 2003 **Integrating Information Seeking and IR Theory in Context**. Key-note, JOTRI2003 Conference (II Jornadas de Tratamiento y Recuperación de la Información). September 8-9, 2003, Madrid. Universidad Carlos III. (Based on short version of publ. # 4.1.15; 4.1.17)
- 2003 **Webometrics: Basic Concepts**. Invited Plenary Talk. 9th International Conf. On Scientometrics & Informetrics. Beijing, August 26. (Based on publ. # 2.39)
- 2003 **Integrating Information Seeking and Retrieval**. Key-note, Conference on Knowledge Sharing, March 2003, Lyon, Université III. France. (Based on short version of publ. # 4.1.15)
- 2001 **Cognitive perspectives of representation**. V. Congreso de la Representacion Y Organizacion del Conocimiento: Metodologias, Modelos y Aplicaciones. Madrid, Spanish ISKO – April, Alcalá de Henares, Madrid, on CD-Rom.
- 1996 **The cognitive framework for information retrieval: A paradigmatic perspective**. Key-note, Conference “Herausforderungen an den Informationswissenschaft”, Berlin October. (as publ. #: 4.1.10).
- 1996 **Information retrieval as interactive cognitive processes**. Information Processing Society of Japan Research Conference, Tokyo, Japan, April 1996. (as publ. #: 3.14).

- 1994 **Cognitive Perspectives in Information Retrieval**, 47th FID Conf., Omiya, Japan, October (as publ. #: 3.12)
- 1994 **Perspectives of a Cognitive Theory of IR** Distinguished Lectureship Award Lecture (26/10); New Jersey ASIS Chapter, USA.
- 1991 **Implications for systems design of individuals' information need profiles**. The Blomqvist Lecture, Bibliotekshøgskolan, Borås, April, 5.
- 1990 **Information science as a cognitive science**. Keynote, Workshop "Wissenrepräsentation, Thesaurus und Klassifikation". Informations-Zentrum Sozialwissenschaften, Bonn, Germany, May 17. (as publ. #: 4.1.7).
- 1988 **Modern indexing and retrieval techniques matching different types of information needs**. With Irene Wormell. Key-Note. August 29. 44th FID Conference, Session 3: Content Analysis and Description of Documents. Helsinki, Finland, (as publ. #: 2.12; 4.1.5).
- 1987 **Information retrieval research and development: current and future trends**. Key-Note. April 10, ASIS Mini Conference, Rutgers University, USA. (as publ. #: 4.1.3).

6.2 Invited lectures and seminars aside from PhD courses

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| 1999 | Brug af kvalitetsviden indenfor det offentlige (Use of quality knowledge in the public sector). Invited lecture at two-day workshop: Videnstyring i den offentlige sektor (Knowledge management in the public sector). European Business Centre, September. | Denmark |
| 1998 | The role of librarians and libraries in organising information . Invited lecture at the Asia Digital Library Conference, Singapore 1998, April. (as publ. #: 2.27). | Singapore |
| 1993 - | Algorithmic and cognitive approaches to Information Retrieval research . With Peter Willett. Half-day Tutorial Seminars, preceding the ACM/SIGIR Conferences during four annual meetings. (as publ. #: 2.18). | International |
| 1995 | Cognitive Perspectives in Information Retrieval . Roskilde University, Dept. of Computer Science (16/11). | Denmark |
| 1995 | Interdisciplinary perspectives on Human Computer Interaction . Invited panel at ASIS conference. (Oct.) | Chicago, USA |
| 1993 | Model Building in IR Interaction . Dept. of Electronics and Informatics (19/10) | Padua, Italy |
| 1991 | Interface functions in information retrieval interaction . Copenhagen Business School, March 12. (as publ. #: 0.5). | Denmark |
| 1991 | Research approaches in information retrieval . Copenhagen Business School, January 9. (as publ. #: 0.5). | Denmark |

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| 1990 | Information science: scope and perspectives. Gesellschaft für Mathematik und Datenverarbeitung (GMD). Nov. 16 | Köln, Germany |
| 1990 | Quantitative analysis of Danish Chemical Research Production. Symbion Videnformidling. Febr. 20 | Denmark |
| 1989 | Information retrieval research paradigms - trends and implications for indexing and searching. Medline Information Centre, Karolinska Institutes Bibliotek, 1-day seminar, September, 26. (as publ. #: 2.13). | Stockholm
Sweden |
| 1989 | User interface design based on user modelling for information retrieval. With Annelise Mark Pejtersen. Half-day Tutorial Seminar, preceding the ACM/SIGIR Conference, June 25. | Boston, USA |
| 1988 | Användning av expertsystem vid informationssökning. (Applications of expert systems in information retrieval). Lund University, Dept. of Computer Science. November, 2. | Lund, Sweden |
| 1987 | Information Retrieval by Man and Machine. Bruce Croft & Peter Ingwersen. 2-day seminar, Dansk Datamatik Center, 10-11 June. | Lyngby, Denmark |
| 1987 | Browsing and feedback in search interviewing. The Catholic University of America. March 4. (as publ. #: 3.7). | DC, USA |
| 1987 | New commercial online browsing capabilities and their impact on IR. April 28. UCLA; May 26, University of Illinois. (as publ. #: 2.8). | Los Angeles,
Urbana, IL
USA |
| 1987 | Information Science in perspective. Faculty address, Rutgers University. May, 12. (as publ. #: 4.1.3). | NJ, USA |
| 1987 | The impact of the cognitive point of view on modern IR. University of Chicago. May, 20 (as publ. #: 4.1.2). | Chicago, IL
USA |
| 1986 | Cognitive perspectives in designing online databases. von Neumann Society, April 9. | Budapest |
| 1986 | Design of inhouse information systems for enterprises. Seminar for systems analysts, The National Bank of Hungary, April 10. | Budapest. |
| 1985 | Information research activities in Denmark - a survey. Swedish Library Association Conference, June. | Falun, Sweden |
| 1984 | The online search interview. NORDINFO Seminar on the Library Role in the Problem Solving Process, April 9-13. | Sweden |
| 1979 | Actions in information retrieval. (In Danish). November 30, the University Library. (as publ. #: 2.2). | Norway |

7. PUBLICATIONS

1. Taking scholarly books into account. Current developments in five European countries. / Gimenez-Toledo, Elea; Manana-Rodríguez, Jorge; Engels, Tim C. E.; Ingwersen, Peter; Polonen, Janne; Sivertsen, Gunnar; Verleysen, Frederik T.; Zuccala, Alesia Ann. In: *Scientometrics*, Vol. 107, No. 2, 10.1007/s11192-016-1886-5, 05.2016, p. 685-699.
2. The Evaluation of Scholarly Books as Research Output. Current Developments in Europe.. / Gimenez-Toledo, Elea; Mañana-Rodríguez, Jorge; Engels, Tim; Ingwersen, Peter; Polonen, Janne; Sivertsen, Gunnar; Verleysen, Frederik; Zuccala, Alesia Ann. Proceedings of the 15th International Society for Scientometrics and Informetrics Conference, Istanbul, Turkey, 29th June to 4th July, 2015 . ed. / Albert Ali Salah; Yasar Tonta; Alkim Almila Akdag Salah; Cassidy Sugimoto; Umut Al. Bogazici University, 2015. p. 469-476.
3. Influence of proceedings papers on citation impact in seven sub-fields of sustainable energy research 2005–2011. / Ingwersen, Peter; Larsen, Birger; Garcia-Zorita, J. Carlos; Serrano-Lopez, Antonio Eleazar; Sanz-Casado, Elias. In: *Scientometrics*, Vol. 101, No. 2, 12.10.2014, p. 1273-1292.
4. Positiv effekt af omstridt pointsystem på dansk forskningsproduktion. / Ingwersen, Peter; Larsen, Birger. In: *Videnskab.dk*. 2014 ; 11 September 2014.
5. Selected critical examples of scientometric publication analysis. / Ingwersen, Peter. In: *B i D. Textos Universitaris de Biblioteconomia i Documentacio*, Vol. 32, No. June, Ingwersen 3, 21.06.2014.
6. Museum Web search behavior of special interest visitors. / Skov, Mette; Ingwersen, Peter. In: *Library & Information Science Research*, Vol. 36, No. 2, 20.05.2014, p. 91-98.
7. FindZebra : a search engine for rare diseases. / Dragusin, Radu; Petcu, Paula; Lioma, Christina; Larsen, Birger; Jørgensen, Henrik L; Cox, Ingemar Johansson; Hansen, Lars Kai; Ingwersen, Peter; Winther, Ole. In: *International Journal of Medical Informatics*, Vol. 82, No. 6, 2013, p. 528-538.
8. Specialised tools are needed when searching the web for rare disease diagnoses. / Dragusin, Radu; Petcu, Paula; Lioma, Christina; Larsen, Birger; Jørgensen, Henrik L.; Cox, Ingemar; Hansen, Lars Kai; Ingwersen, Peter; Winther, Ole. In: *Rare Diseases*, Vol. 1, No. 2, e25001, 2013.
9. Contribution and influence of proceedings papers to citation impact in seven conference and journal-driven sub-fields of energy research 2005-11. / Ingwersen, Peter; Larsen, Birger; Garcia-Zorita, J. Carlos; Serrano-López, Antonio Eleazar; Sanz-Casado, Elias.
10. Influence of university mergers and the Norwegian performance indicator on overall Danish citation impact 2000-12. / Ingwersen, Peter; Larsen, Birger.
11. Renewable energy research 1995–2009: a case study of wind power research in EU, Spain, Germany and Denmark. / Sanz-Casado, Elias; Garcia-Zorita, J. Carlos; Serrano-López, Antonio Eleazar; Larsen, Birger; Ingwersen, Peter. In: *Scientometrics*, Vol. 95, No. 1, 09.03.2013, p. 197-224.
12. Scientific production and international collaboration on Solar Energy in Spain and Germany (1995-2009). / Sanz-Casado, Elias; Lascrain-Sanchez, Maria-Louisa; Garcia-Zorita, J. Carlos; Serrano-Lopez, Antonio Eleazar; Larsen, Birger; Ingwersen, Peter.
13. An Exploratory Study into Perceived Task Complexity, Topic Specificity and Usefulness for Integrated Search. / Ingwersen, Peter; Lioma, Christina; Larsen, Birger; Wang, Peiling.
14. An exploratory study into perceived task complexity, specificity, and usefulness for integrated search. / Ingwersen, Peter; Lioma, Christina; Larsen, Birger; Wang, Peiling. Proceedings of the 4th Information Interaction in Context Symposium. Association for Computing Machinery, 2012. p. 302-305.

15. Citations and references as keys to relevance ranking in interactive IR. / Ingwersen, Peter.
16. Interactive Information Seeking, Behaviour and Retrieval. Edited by Ian Ruthven and Diane Kelly. London: Facet Publishing, 2011. 296 pp. \$ 89.95 (paperback). (ISBN: 978-1-85604-707-4). / Ingwersen, Peter. In: Journal of the American Society for Information Science and Technology, Vol. 63, No. 10, 09.2012, p. 2122-2125.
17. Relationship between Usefulness Assessments and Perceptions of Work Task Complexity and Search Topic Specificity: An Exploratory Study. / Ingwersen, Peter; Wang, Peiling. Proceedings of the ECIR 2012 Workshop on Task-Based and Aggregated Search (TBAS2012).. ed. / Birger Larsen; Christina Lioma; Arjen P. de Vries. 2012. p. 19-23.
18. Scientometric Indicators and Webometrics - and the Polyrepresentation Principle in Information Retrieval. / Ingwersen, Peter. Bangalore : Ess Ess Publications, New Delhi, India, 2012. (Sarada Ranganathan Endowment Lectures; No. 28).
19. The pragmatics of a diachronic journal impact factor. / Ingwersen, Peter. In: Scientometrics, Vol. 92, No. 2, 24.03.2012, p. 319-324.
20. User-oriented and cognitive models of information retrieval. / Järvelin, Kalervo; Ingwersen, Peter. Understanding Information Retrieval Systems: Management, Types, and Standards. ed. / Marcia Bates. Boca Raton, Florida, USA : Taylor & Francis, 2012. p. 47-64.
21. A subjective logic formalisation of the principle of polyrepresentation for information needs (PART 2) : practical application and analysis. / Lioma, Christina; Larsen, Birger; Schütze, Hinrich; Ingwersen, Peter. Proceedings of the 4th Information Interaction in Context Symposium. Association for Computing Machinery, 2012. p. 125-134.
22. Preliminary experiments using subjective logic for the polyrepresentation of information needs. / Lioma, Christina; Larsen, Birger; Ingwersen, Peter.
23. Preliminary experiments using subjective logic for the polyrepresentation of information needs. / Lioma, Christina; Larsen, Birger; Ingwersen, Peter. Proceedings of the 4th Information Interaction in Context Symposium: behaviors, interactions, interfaces, systems. Association for Computing Machinery, 2012. p. 174-183.
24. The 13th international conference on scientometrics and informetrics. / Ocholla, Dennis; Ingwersen, Peter; Noyons, Ed; Glänzel, Wolfgang. In: Scientometrics, 07.01.2012.
25. Do open access working papers attract more citations compared to printed journal articles from the same research unit?. / Ingwersen, Peter; Elleby, Anita. Proceedings of the ISSI 2011 Conference: 13th International Conference of the International Society for Scientometrics & Informetrics, Durban, South Africa, 04-07 July 2011. ed. / Ed Noyons; Patrick Ngulube; Jacqueline Leta. South Africa : ISSI & University of Zululand, 2011. p. 327-332.
26. Indicators for the Data Usage Index (DUI): an incentive for publishing primary biodiversity data through global information infrastructure. / Ingwersen, Peter; Chavan, Vishwas. In: B M C Bioinformatics, Vol. 12 (Suppl 15), No. S3, 15.12.2011, p. S3.
27. The user in interactive information retrieval evaluation. / Ingwersen, Peter. Advanced Topics in Information Retrieval. ed. / Massimi Melucci; Ricardo Baeza-Yates. Vol. 33 New York : Springer Publishing Company, 2011. p. 83-107 (Springer International Series on Information Retrieval, Vol. 33).
28. Towards mainstreaming of biodiversity data publishing: recommendations of the GBIF Data Publishing Framework Task Group. / Moritz, Tom; Krishnan, S.; Roberts, Dave; Ingwersen, Peter; Agosti, Donat; Penev, Yubomir; Cockerill, Matthew; Chavan, Vishwas. In: BMC Bioinformatics, Vol. 12 (Suppl 15), No. S1, 15.12.2011.
29. The ISSI Conference in South Africa. / Ocholla, Dennis; Ingwersen, Peter. In: ISSI Newsletter, Vol. 7, No. 3, 2011, p. 38-44.

30. Publication point indicators : A comparative case study of two publication point systems and citation impact in an interdisciplinary context. / Elleby, Anita; Ingwersen, Peter. In: *Journal of Informetrics*, Vol. 4, No. 4, 2010, p. 512-523.
31. Supporting Polyrepresentation in a Quantum-inspired geometrical Retrieval Framework. / Frommholz, Ingo; Larsen, Birger; Piwowarski, Benjamin; Lalmas, Mounia; Ingwersen, Peter; van Rijsbergen, Keith. *IIIX'10 Proceeding of the Third Symposium on Information Interaction in Context*, New Brunswick, NJ, USA, August 18-21, 2010. ed. / Nicholas J. Belkin; Diane Kelly. New York : Association for Computing Machinery, 2010. p. 115-124.
32. Assessors' Search Result Satisfaction Associated with Relevance in a Scientific Domain. / Ingwersen, Peter; Lykke, Marianne; Bogers, Toine; Larsen, Birger; Lund, Haakon.
33. Does Degree of Work Task Completion Influence Retrieval Performance?. / Ingwersen, Peter; Bogers, Toine; Lykke, Marianne.
34. *Information Retrieval Interaction*. / Ingwersen, Peter. Teheran : Ketabdar Publishing Agency, Iran, 2010. 250 p.
35. Perspectives on Adaptivity in Information Retrieval Interaction (PAIRI). / Ingwersen, Peter; Larsen, Birger; Kelly, Diane; Wang, Peiling; Lykke, Marianne. *Navigating Streams in an Information Ecosystem: ASIST 2010, Proceedings of the 73rd ASIS&T Annual Meeting*. ed. / Andrew Grove. Vol. 47 American Society for Information Science and Technology, 2010. (ASIS&T Annual Meeting, Vol. 47).
36. Scientometric and Webometric methods. / Ingwersen, Peter. In: *Tushu Qingbao Zhishi*, Vol. 1, No. 133, 2010, p. 4-11.
37. User-oriented and cognitive models of information retrieval. / Järvelin, Kalervo; Ingwersen, Peter. *Encyclopedia of Library and Information Science*. ed. / Marcia Bates. 3.ed. London : Taylor & Francis, 2010. p. 5521-5534.
38. A Subjective Logic Formalisation of the Principle of Polyrepresentation for Information Needs. / Lioma, Christina; Larsen, Birger; Schütze, Hinrich; Ingwersen, Peter. *IIIX'10 Proceeding of the Third Symposium on Information Interaction in Context*: New Brunswick, NJ, USA. August 18-21, 2010. ed. / Nicholas J. Belkin; Diane Kelly. New York : Association for Computing Machinery, 2010. p. 125-134.
39. Developing a Test Collection for the Evaluation of Integrated Search. / Lykke, Marianne; Larsen, Birger; Lund, Haakon; Ingwersen, Peter. *Advances in Information Retrieval: 32nd European Conference on IR Research, ECIR 2010, Milton Keynes, UK, March 28-31, 2010, Proceedings*. ed. / Cathal Gurrin; Yulan He; Gabriella Kazai; Udo Kruschwitz; Suzanne Little; Thomas Roelleke; Stefan Rüter; Keith van Rijsbergen. Vol. 5993 Springer, 2010. p. 627-630 (Lecture Notes in Computer Science; No. 5993).
40. Physicists' Information Tasks: Structure, Length and Retrieval Performance. / Lykke, Marianne; Ingwersen, Peter; Bogers, Toine; Lund, Haakon; Larsen, Birger. 2010.
41. Brazil research in selected scientific areas : Trends 1981-2005. / Ingwersen, Peter. *Proceedings of ISSI 2009 - the 12th International Conference of the International Society for Scientometrics and Informetrics: Rio de Janeiro, Brazil, July 14-17, 2009*. ed. / Birger Larsen; Jacqueline Leta. Vol. 2 BIREME/PAHO/WHO and Federal University of Rio de Janeiro, 2009. p. 692-696.
42. Towards a data publishing framework for primary biodiversity data : Challenges and potentials for the biodiversity informatics community. / Ingwersen, Peter; Chavan, Vishwas S. In: *BMC Bioinformatics*, Vol. 10, No. Suppl 14, 2009.
43. Research assessments by synchronic and diachronic citation impact : A case study of Carlos III University of Madrid. / Iribarren-Maestro, Isabel; Ingwersen, Peter; Larsen, Birger. *Proceedings of ISSI 2009 - the 12th International Conference of the International Society for Scientometrics and*

- Informetrics: Rio de Janeiro, Brazil, July 14-17, 2009. Vol. 1 BIREME/PAHO/WHO and Federal University of Rio de Janeiro, 2009. p. 487-491.
44. Data fusion according to the principle of polyrepresentation. / Larsen, Birger; Ingwersen, Peter; Lund, Berit. In: *Journal of the American Society for Information Science and Technology*, Vol. 60, No. 4, 2009, p. 646-654.
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 47. Information Science. / Ingwersen, Peter. *The International Encyclopedia of Communication*. ed. / Wolfgang Donsbach. London : Wiley, 2008. p. 2261-2263.
 48. Informationssøgning set i det Integreerede Kognitive Forskningsperspektiv. / Ingwersen, Peter; Järvelin, Kalervo. In: *Dansk Biblioteksforskning*, Vol. 4, No. 2, 2008, p. 17-32.
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 50. Forskningsaktiviteten for speciallæger i klinisk biokemi. / Jørgensen, Henrik L.; Larsen, Birger; Ingwersen, Peter; Rehfeld, Jens Frederik. In: *Ugeskrift for Læger*, Vol. 170, No. 36, 2008, p. 2798-2802.
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 52. Exploring information seeking behaviour in a digital museum context. / Skov, Mette; Ingwersen, Peter. *Proceedings of the second IiX Symposium on Information Interaction in Context*. ed. / Pia Borlund; Jesper W. Schneider; Mounia Lalmas. ACM Press, 2008. p. 110-115 (ACM International Conference Proceedings Series).
 53. Inter and intra-document contexts applied in polyrepresentation for best match IR. / Skov, Mette; Larsen, Birger; Ingwersen, Peter. In: *Information Processing & Management*, Vol. 44, No. 5, 2008, p. 1673-1683.
 54. Task complexity and information behaviour in group based problem solving. / Hyldegård, Jette; Ingwersen, Peter Emil Rerup. In: *Information Research. An International Electronic Journal*, Vol. 12, No. 4, 2007.
 55. A national research profile-based immediacy index and citation ratio indicator for research evaluation. / Ingwersen, Peter; Schneider, Jesper Wiborg; Larsen, Birger; Scharff, Morten. *Proceedings of 11th International Conference of the International Society for Scientometrics and Informetrics, ISSI, 2007*. Madrid : Centre for Scientific Information and Documentation (CINDOC) of the Spanish Research Council, 2007. p. 864-865.
 56. Degree of granularity in publication profiles for mapping national research similarity. / Ingwersen, Peter Emil Rerup. *Taking CiteSpace to Science: Workshop of 11th International Conference of the International Society for Scientometrics and Informetrics, ISSI, 2007*. Madrid : Centre for Scientific Information and Documentation (CINDOC) of the Spanish Research Council, 2007. p. 15-16.
 57. Evaluation of strategic research programs: The case of Danish environmental research 1993-2002. / Ingwersen, Peter Emil Rerup; Larsen, Birger. In: *Research evaluation*, Vol. 16, No. 1, 2007, p. 47-58.

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60. Online determination of the journal impact factor and its international properties. / Ingwersen, Peter Emil Rerup; Hjortgaard Christensen, Finn; Wormell, Irene. The Impact Factor of Scientific and Scholarly Journals : Its Use and Misuse : A selection of papers reprinted from the journal Scientometrics. Budapest : Akadémiai Kiadó, Scientific Journals Business Centre, 2007. p. 373-384.
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