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Literature Search Strategies for Engineering Majors

Qinling Huang (黄琴玲)

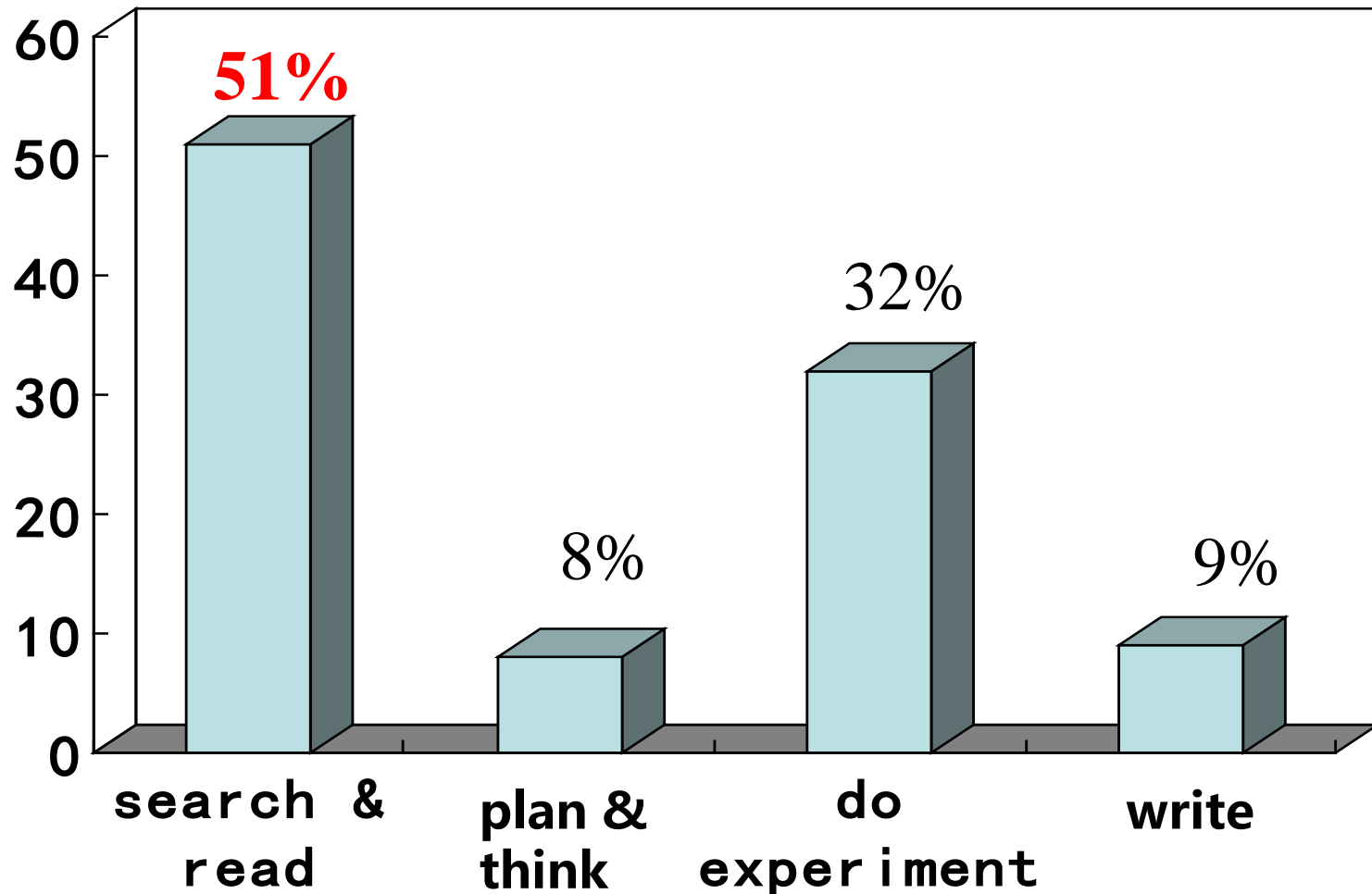
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Nov. 27, 2017





Time allocation of researchers





Content



Google Scholar	<ul style="list-style-type: none">• Search tips• Settings
Library resource introduction	<ul style="list-style-type: none">• Library search tools• Databases• Off-campus access
A literature search case	<ul style="list-style-type: none">• Web of Science



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Search engines (everything)

- Google
- Baidu(百度)

Search engines (scholarly)

- Google Scholar
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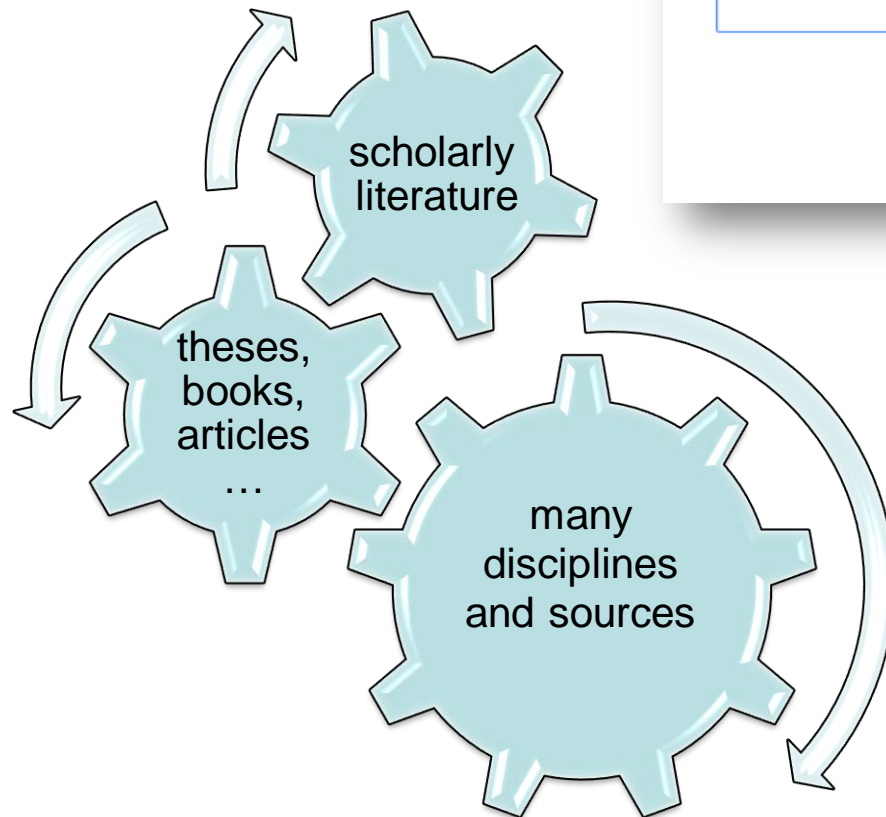


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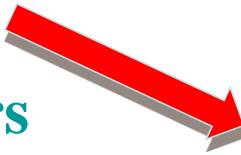




Google Scholar—— Quick search



Quick Search



■ Logical operators

✧ and

E.g.: “absorptive refrigeration” and
“functionally graded materials”

✧ -

E.g.: IP -Intellectual -property

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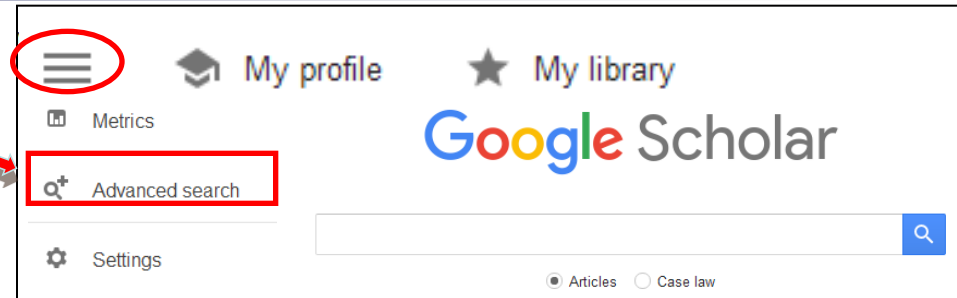
	<input type="text" value="internet protocol"/>		<input type="text" value="“internet protocol”"/>
Scholar	2,210,000 results)	Scholar	380,000 results
Articles	User datagram protocol J Postel - Isi, 1980 - xml2rfc.tools.ietf.org	Articles	User datagram protocol J Postel - Isi, 1980 - xml2rfc.tools.ietf.org
Case law	... This protocol assumes that the Internet Protocol (IP) [1] is used as protocol. This protocol provides a procedure for application programs to send messages to other programs with a minimum of protocol mechanism. ...	Case law	... This Internet Protocol (IP) [1] is used as protocol. This protocol provides a procedure for application programs to send messages to other programs with a minimum of protocol mechanism. ...
Any time	Cited by 3114 Related articles All 8 versions Cite	Any time	Cited by 3114 Related articles All 8 versions Cite More▼
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Google Scholar—Advanced search



■ Advanced Search



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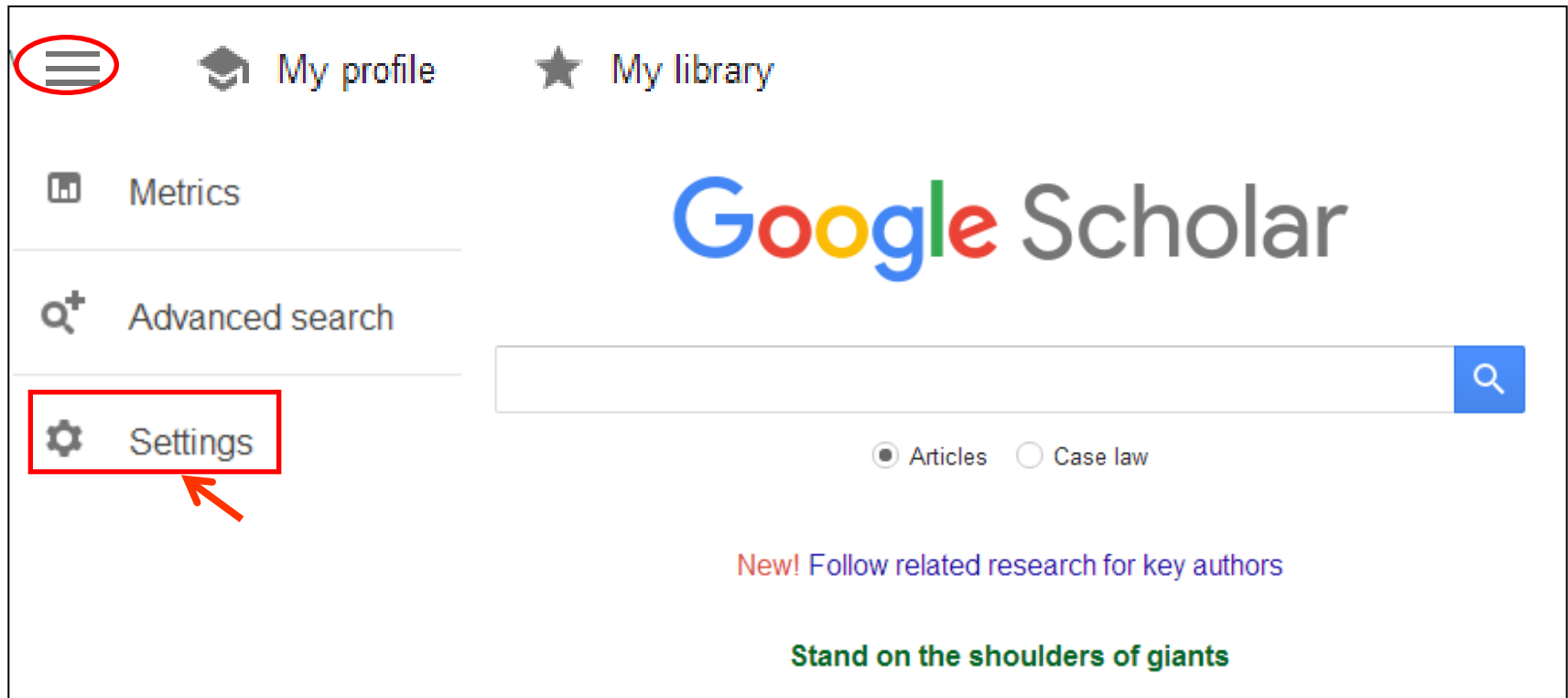
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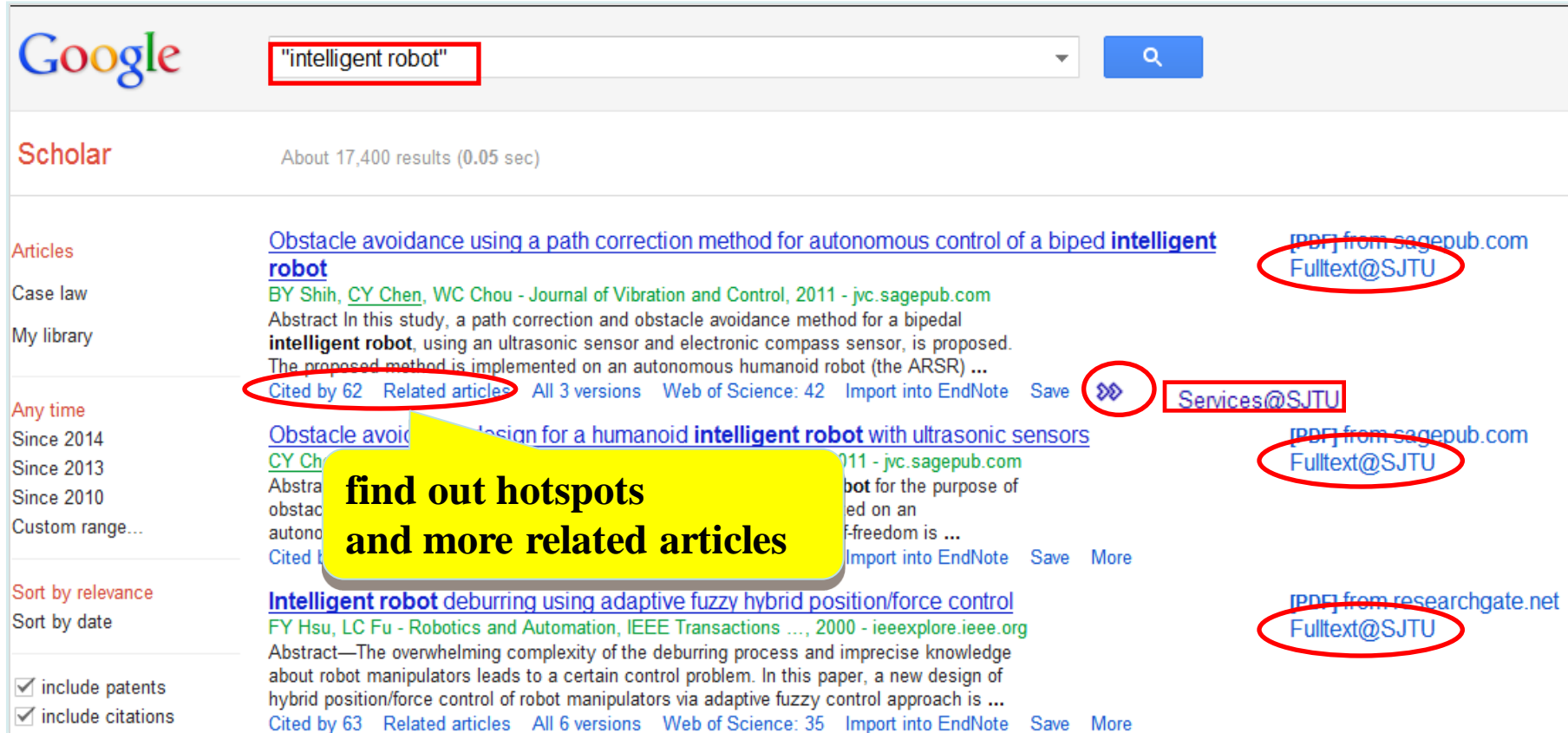
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[Obstacle avoidance using a path correction method for autonomous control of a biped **intelligent robot**](#)

BY Shih, CY Chen, WC Chou - Journal of Vibration and Control, 2011 - jvc.sagepub.com

Abstract In this study, a path correction and obstacle avoidance method for a bipedal **intelligent robot**, using an ultrasonic sensor and electronic compass sensor, is proposed. The proposed method is implemented on an autonomous humanoid robot (the ARSR) ...

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[Obstacle avoidance design for a humanoid **intelligent robot** with ultrasonic sensors](#)

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Abstract In this study, a path correction and obstacle avoidance method for a bipedal **intelligent robot** for the purpose of ...

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[Intelligent robot deburring using adaptive fuzzy hybrid position/force control](#)

FY Hsu, LC Fu - Robotics and Automation, IEEE Transactions ..., 2000 - ieeexplore.ieee.org

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[PDF] Boon and Bane of GUI Test Automation - Quality First Software GmbH

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☆ **An FSM based GUI Test Automation Model**
Miao, Yuan
11TH INTERNATIONAL CONFERENCE ON CONTROL, AUTOMATION, ROBOTICS AND VISION (ICARCV 2010)
2010
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Feng, Li
2007 IEEE AUTOTESTCON, VOLS 1 AND 2
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1

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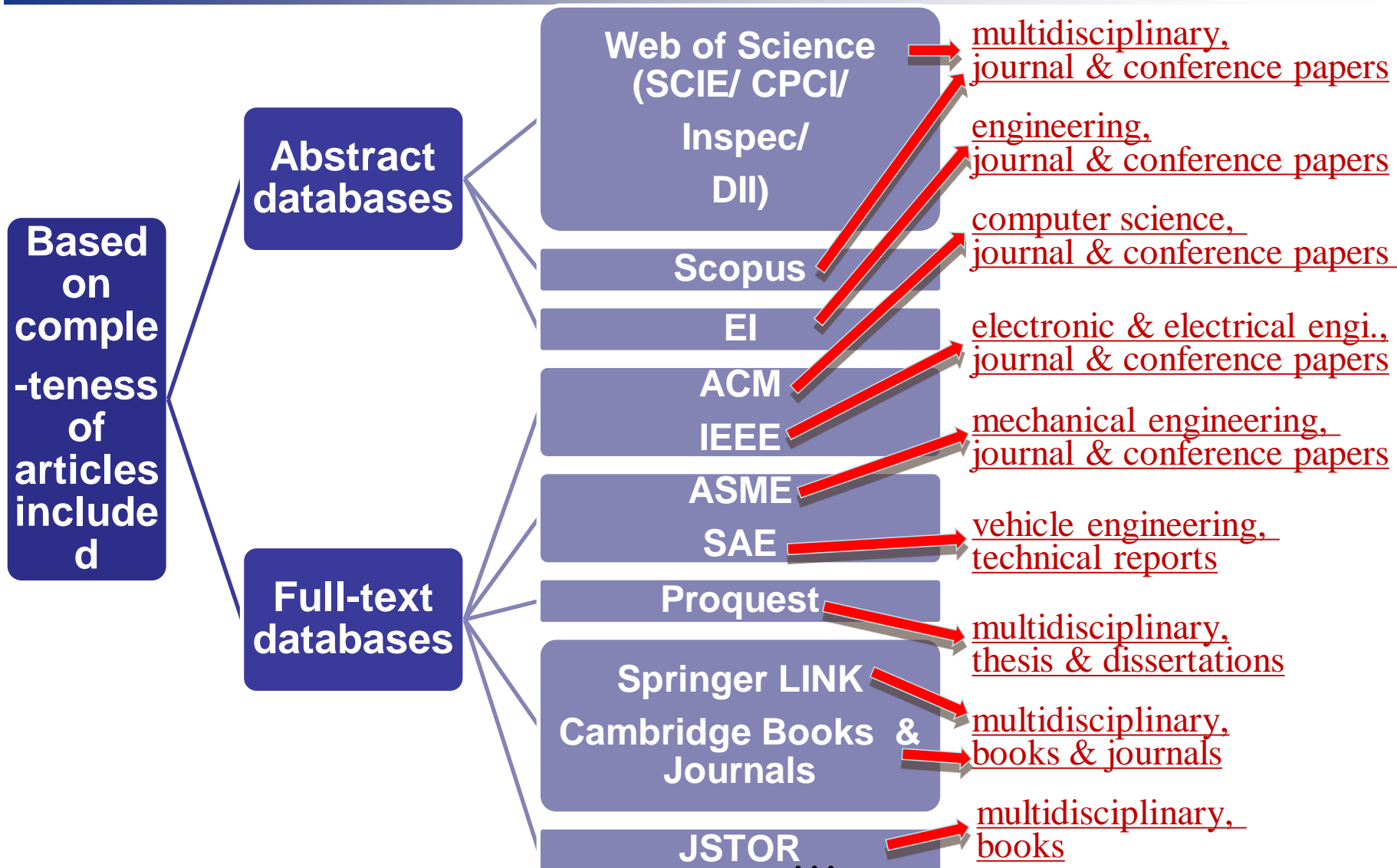


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					Ulrich's Periodicals Directory	Periodicals Directory	Facts					
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Pay attention to thesis and dissertations

APPROVAL SHEET

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Dissertation and Abstract

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For students—— proxy service

- server: inproxy.sjtu.edu.cn
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- jAccount for user authentication
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服务列表				
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FINITE ELEMENTS IN ANALYSIS AND DESIGN Volume: 90 Pages: 61-73 Published: NOV 1 2014

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rence: 5th
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SIMPSON: A General Simulation Program for Solid-State NMR Spectroscopy

Mads Bak, Jimmy T Rasmussen¹,
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doi:10.1006/jmre.2000.2179

Abstract

A computer program for fast and accurate numerical simulation of solid-state NMR experiments is described. The program is designed to emulate a NMR spectrometer by letting the user specify high-level NMR concepts such as spin systems, nuclear spin interactions, RF irradiation, free precession, phase cycling, coherence-order filtering, and implicit/explicit acquisition. These elements are implemented using the Tcl scripting language to ensure a minimum of programming overhead and direct interpretation without the need for compilation, while maintaining the flexibility of a full-featured programming language. Basically, there are no intrinsic limitations to the number of spins, types of interactions, sample conditions (static or spinning, powders, uniaxially oriented molecules, single crystals, or solutions), and the complexity or number of spectral dimensions for the pulse sequence. The applicability ranges from simple 1D experiments to advanced multiple-pulse and multiple-dimensional experiments, series of simulations, parameter scans, complex data manipulation/visualization, and iterative fitting of simulated to experimental spectra. A major effort has been devoted to optimizing the computation speed using state-of-the-art algorithms for the time-consuming parts of the calculations implemented in the core of the program using the C programming language. Modification and maintenance of the program are facilitated by releasing the program as open source software (General Public License) currently at <http://nmr.imsb.au.dk>. The general features of the program are

Journal of Magnetic Resonance
Volume 147, 296–330 (2000)
doi:10.1006/jmre.2000.2179, available online at <http://www.idealibrary.com> on **IDEAL**[®]

SIMPSON: A General Simulation Program for Solid-State NMR Spectroscopy

Mads Bak, Jimmy T. Rasmussen,¹ and Niels Chr. Nielsen²

Laboratory for Biomolecular NMR Spectroscopy, Department of Molecular and Structural Biology, University of Aarhus, DK-8000 Aarhus C, Denmark

Received May 10, 2000; revised July 26, 2000

A computer program for fast and accurate numerical simulation of solid-state NMR experiments is described. The program is designed to emulate a NMR spectrometer by letting the user specify high-level NMR concepts such as spin systems, nuclear spin interactions, RF irradiation, free precession, phase cycling, coherence-order filtering, and implicit/explicit acquisition. These elements are implemented using the Tcl scripting language to ensure a minimum of programming overhead and direct interpretation without the need for compilation, while maintaining the flexibility of a full-featured programming language. Basically, there are no intrinsic limitations to the number of spins, types of interactions, sample conditions (static or spinning, powders, uniaxially oriented molecules, single crystals, or solutions), and the complexity or number of spectral dimensions for the pulse sequence. The applicability ranges from simple 1D experiments to advanced multiple-pulse and multiple-dimensional experiments, series of simulations, parameter scans, complex data manipulation/visualization, and iterative fitting of simulated to experimental spectra. A major effort has been devoted to optimizing the computation speed using state-of-the-art algorithms for the time-consuming parts of the calculations implemented in the core of the program using the C programming language. Modification and maintenance of the program are facilitated by releasing the program as open source software (General Public License) currently at <http://nmr.imsb.au.dk>. The general features of the program are

bles the earlier and still strongly ongoing evolution of multi-dimensional liquid-state NMR spectroscopy (9–11). In both cases state-of-the-art experiments are constructed in a modular fashion using pulse sequence building blocks accomplishing certain coherence transfers or evolution under specific parts of the internal Hamiltonian. One major difference, however, is that solid-state NMR is influenced directly by anisotropic nuclear spin interactions which on one hand complicate the achievement of high-resolution spectra and on the other hand may provide important information about structure and dynamics. This dual aspect has motivated the design of advanced pulse sequence elements which through decoupling and recoupling tailor the Hamiltonian to cause evolution under the specific interaction(s) probing the desired structural information while efficiently suppressing undesired interactions. Based on analytical evaluation of the perturbed Hamiltonian (1, 2, 4, 6, 12–15) and numerical simulations, a large number of experiments have been constructed which, via dipolar coupling, anisotropic chemical shielding, and quadrupolar coupling interactions, provide information about local molecular structure and dynamics in terms of the electronic/nuclear coordination environment, internuclear distances, bonding angles, and models for motional processes.

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JOURNAL OF MAGNETIC RESONANCE Volume: 147 Issue: 2 Pages: 296-330 Published: DEC 2000

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2. **Extending and implementing the stable model semantics** Times Cited: 273 (from Web of Science Core Collection)

By: Simons, P; Niemela, I; Soininen, T
Conference: 5th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 99) Location: EL PASO, TX Date: DEC 02-04, 1999
Sponsor(s): Univ Texas El Paso
ARTIFICIAL INTELLIGENCE Volume: 138 Issue: 1-2 Pages: 181-234 Article Number: PII S0004-3702(02)00187-X Published: JUN 2002

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Volume: 147 Issue: 2 Pages: 296-330
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Abstract
A computer program for fast and accurate numerical simulation of solid-state NMR experiments is described. The program is designed to emulate a NMR spectrometer by letting the user specify high-level NMR concepts such as spin systems, nuclear spin interactions, RF irradiation, free precession, phase cycling, coherence-order filtering, and implicit/explicit acquisition. These elements are implemented using the Tcl scripting language to ensure a minimum of programming overhead and

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- ☐ RAMANUJAM J (29)
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 Times Cited: 273 (from Web of Science Core Collection)

☐ 3. **M DynaMix, a scalable portable parallel MD simulation package for arbitrary molecular**
...TIONS Volume: 128 Issue: 3 Pages: 565-589
Published: JUN 2000
 Times Cited: 199 (from Web of Science Core Collection)

☐ 4. **Optimization code with weighting function for the reconstruction of coronal magnetic fields**
By: Wiegmann, T
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2. Extending and implementing the stable model semantics
By: Simons, P; Niemela, I; Sojininen, T
Conference: 5th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 99) Location: EL PASO, TX Date: DEC 02-04, 1999
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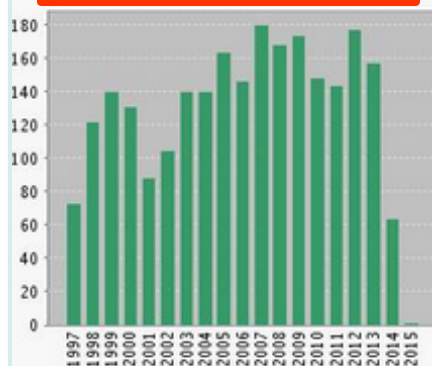
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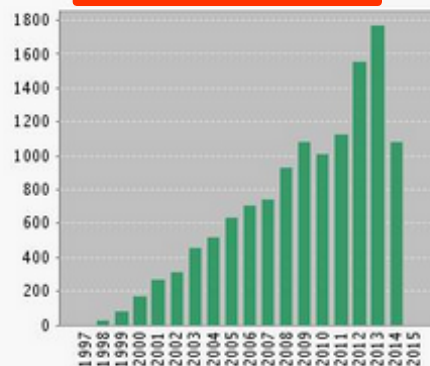
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