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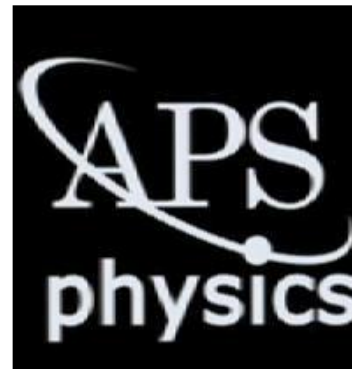
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APS » Journals » Phys. Rev. B » Accepted Papers » Derivation of the Johnson-Samwer $T^{2/3}$ temperature dependence of the yield strain in metallic glasses

Derivation of the Johnson-Samwer $T^{2/3}$ temperature dependence of the yield strain in metallic glasses

Ratul Dasgupta, Ashwin Joy, H. G. E. Hentschel, and Itamar Procaccia

Accepted Thursday Dec 13, 2012

Metallic Glasses are prone to fail mechanically via a shear-banding instability. In a remarkable paper Johnson and Samwer demonstrated that this failure enjoys a high degree of universality in the sense that a large group of metallic glasses appears to possess a yield-strain that decreases with temperature following a $-T^{2/3}$ law up to logarithmic corrections. In this Letter we offer a theoretical derivation of this law. We show that our formula fits very well simulational data on typical amorphous solids.

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Phys. Rev. Lett. 110, 025901 (2013) [5 pages]

Direct Measurement of Room-Temperature Nondiffusive Thermal Transport Over Micron Distances in a Silicon Membrane

Abstract
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Jeremy A. Johnson^{1,*}, A. A. Maznev^{1,*}, John Cuffe^{2,3}, Jeffrey K. Eliason¹, Austin J. Minnich^{4,†}, Timothy Kehoe², Clivia M. Sotomayor Torres^{2,5,6}, Gang Chen⁴, and Keith A. Nelson¹

¹Department of Chemistry, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, USA

²Catalan Institute of Nanotechnology, Campus de Bellaterra, Edifici CM7, ES 08192 Barcelona, Spain

³Department of Physics, Tyndall National Institute, University College Cork, Cork, Ireland

⁴Department of Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, USA

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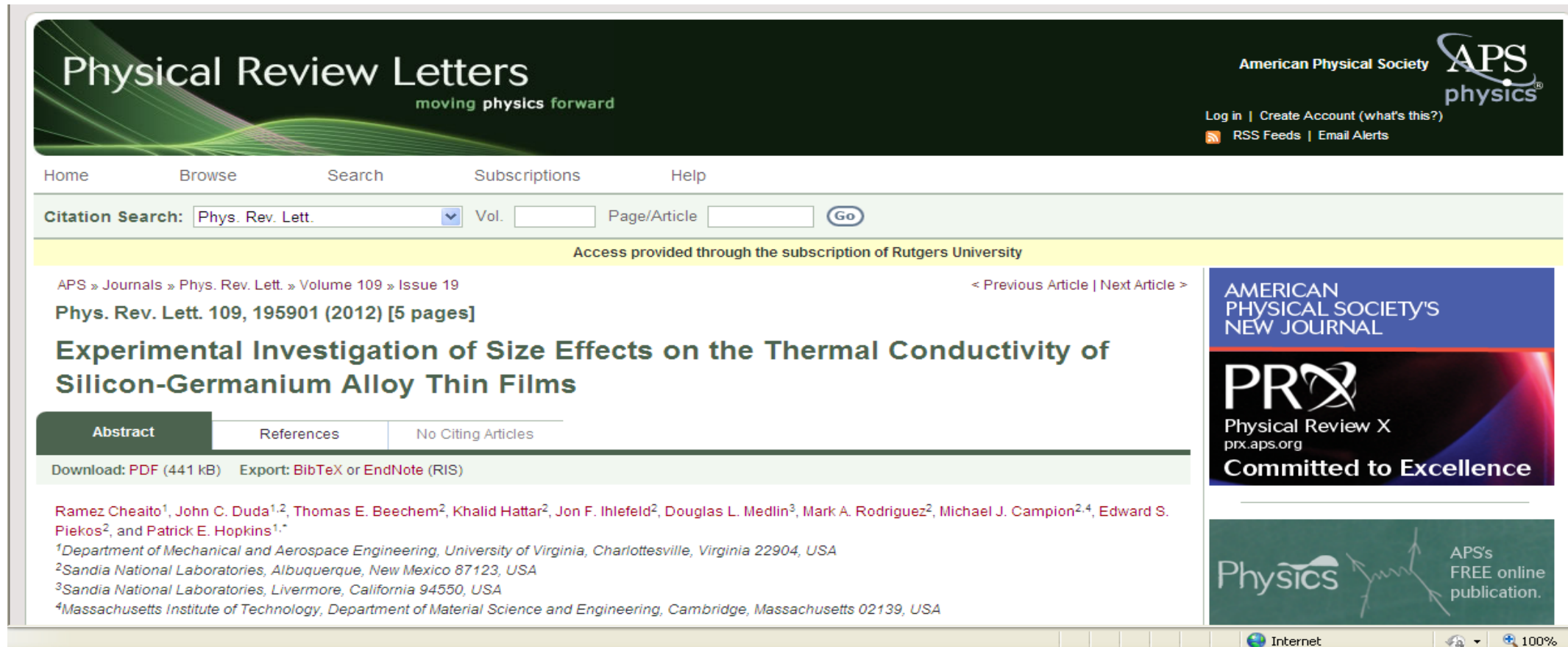
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The screenshot shows the Physical Review Letters website interface. At the top, the journal title "Physical Review Letters" is displayed with the tagline "moving physics forward". The American Physical Society (APS) logo is visible in the top right corner, along with links for "Log in", "Create Account (what's this?)", "RSS Feeds", and "Email Alerts".

The navigation menu includes "Home", "Browse", "Search", "Subscriptions", and "Help". Below the menu is a search bar with the text "Citation Search: Phys. Rev. Lett." and a "Go" button. A yellow banner indicates "Access provided through the subscription of Rutgers University".

The main content area shows the article title "Experimental Investigation of Size Effects on the Thermal Conductivity of Silicon-Germanium Alloy Thin Films" from "Phys. Rev. Lett. 109, 195901 (2012) [5 pages]". Below the title are tabs for "Abstract", "References", and "No Citing Articles". The "Abstract" tab is selected. Below the tabs, there are download options: "Download: PDF (441 kB)" and "Export: BibTeX or EndNote (RIS)".

The authors listed are Ramez Cheaito¹, John C. Duda^{1,2}, Thomas E. Beechem², Khalid Hattar², Jon F. Ihlefeld², Douglas L. Medlin³, Mark A. Rodriguez², Michael J. Campion^{2,4}, Edward S. Piekos², and Patrick E. Hopkins^{1,*}. The affiliations are: ¹Department of Mechanical and Aerospace Engineering, University of Virginia, Charlottesville, Virginia 22904, USA; ²Sandia National Laboratories, Albuquerque, New Mexico 87123, USA; ³Sandia National Laboratories, Livermore, California 94550, USA; ⁴Massachusetts Institute of Technology, Department of Material Science and Engineering, Cambridge, Massachusetts 02139, USA.

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of a 3D compressed soft solid layer with perfectly ordered I-shape (left) deformation patterns with alternating orientation. Bottom: Depth-averaged and Y patterns. [T. Tallinen, J. S. Biggins, and L. Mahadevan, Phys. Rev. Lett.

Announcements

Announcement: Changes to the Table of Contents of *Physical Review E*
January 2, 2013

We are pleased to announce several changes to the table of contents of *Physical Review E*.

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The screenshot shows the Scitation search page. At the top right, there are links for '@ Contact', 'View Cart', 'MyScitation', and 'Register'. Below these are 'Keyword | DOI | Advanced' filters and a search input field with the placeholder 'enter search here...'. A navigation bar contains 'Browse', 'Search Scitation', 'For Users', 'For Librarians', 'For Partners', and 'News'. The main search area has 'Standard Search | Advanced Search' and radio buttons for 'Scitation' (selected) and 'PubMed®/MEDLINE®'. The search query is 'smith' in the 'Author' field. Below this are two more search rows, each with 'ANC' dropdowns and 'in' dropdowns. The 'Hitlist Sorting Options' section includes 'Show Most Recent First', 'Records Per Page' (25), and 'Threshold' (All). A note states: 'The following options may be used to enhance your search query & results list.' Below this are 'Publication Date Range' and 'Volume/Issue Range' sections. The 'Publication Date Range' section has dropdowns for Month, Day, and Year, followed by 'through' and another set of dropdowns. The 'Volume/Issue Range' section has 'From: Vol.' and 'Iss.' dropdowns, followed by 'To: Vol.' and 'Iss.' dropdowns. On the right side, there is a 'Follow on Twitter' section with an RSS icon and a 'Create Your Own Dynamic RSS Feed!' button, and a 'Visit AIP's New Chinese-language Website!' advertisement for china.aip.org.

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- Validation of Numerical Simulation for Rotating Stall in a Transonic Fan**
Minsuk Choi, Nigel H. S. Smith, and Mehdi Vahdati
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J. M. Smith, S. P. King, E. R. Barney, J. V. Hanna, R. J. Newport, and D. M. Pickup
J. Chem. Phys. **138**, 034501 (2013) Full Text: [[Read Online \(HTML\)](#)] [Download PDF \(482 kB\)](#)] [Purchase PDF](#)

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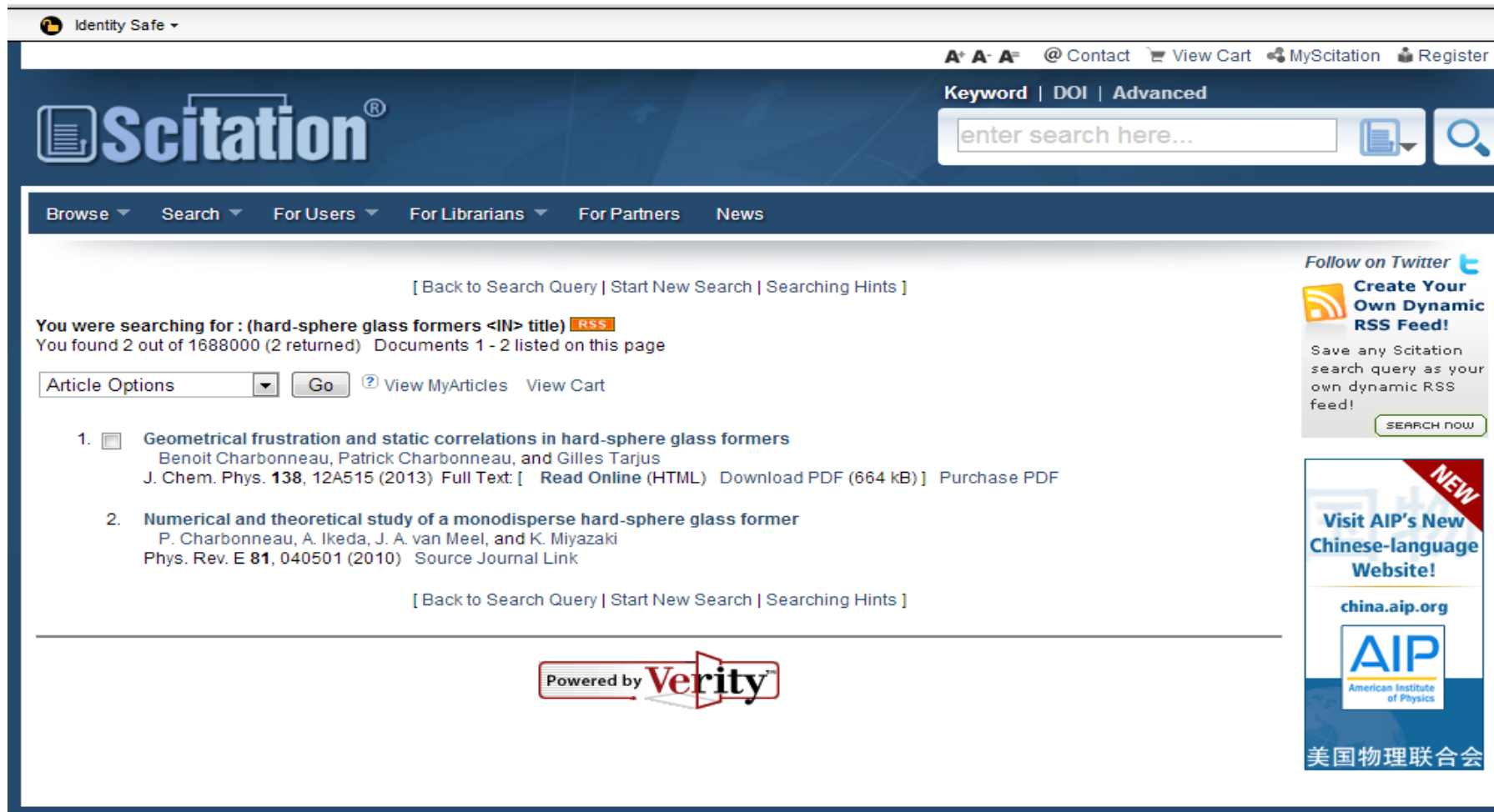
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 Benoit Charbonneau, Patrick Charbonneau, and Gilles Tarjus
 J. Chem. Phys. **138**, 12A515 (2013) Full Text: [[Read Online \(HTML\)](#) [Download PDF \(664 kB\)](#)] [Purchase PDF](#)
- Numerical and theoretical study of a monodisperse hard-sphere glass former**
 P. Charbonneau, A. Ikeda, J. A. van Meel, and K. Miyazaki
 Phys. Rev. E **81**, 040501 (2010) [Source Journal Link](#)

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[Dipole-magnet field models based on a conformal map
P. L. Walstrom
Phys. Rev. ST Accel. Beams **15**, 102401 (2012) [Source Journal Link]

- Diffusion in two-dimensional conical varying width channels: Comparison of analytical and numerical results
Inti Pineda, José Alvarez-Ramirez, and Leonardo Dagdug
J. Chem. Phys. **137**, 174103 (2012) Full Text: [[Read Online \(HTML\)](#) [Download PDF \(767 kB\)](#)] [Purchase PDF](#)
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M. Cunill-Rodríguez, J. A. Delgado-Atencio, S. Vázquez-Montiel, and B. Morales-Cruzado
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 - Sparse Graphs Are Not Flammable** by Pralat, P. (SIAM J. Discrete Math. 27, 2157 (2013))
 - Modified Scattering Operator for the Derivative Nonlinear Schrödinger Equation** by Guo, Z., Hayashi, N., Lin, Y., Naumkin, P. (SIAM J. Math. Anal. 45, 3854 (2013))
 - One-Dimensional Tunnel-Junction Formula for the Schrödinger Particle** by Hirokawa, M., Kosaka, T. (SIAM J. Appl. Math. 73, 2247 (2013))
- SIAM PROCEEDINGS:** A section describing peer-reviewed original research from conferences.
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relevance or by
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The screenshot shows the SIAM search results page. The search criteria is "genetic algorithm". The search results are sorted by Relevancy. The first result is "Modeling the Genetic Algorithm by a Nonhomogeneous Markov Chain: Weak and Strong Ergodicity" by V. S. M. Campos, A. G. C. Pereira, and J. A. Rojas Cruz. The callouts indicate that the search criteria and filters are on the left, the sorting options are at the top right, and the full text is available for the selected article.

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Publication

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ASA-SIAM Series on Statistics and
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Author

Golub, Gene H. (35)
Gan, Guojun (26)
Ma, Chaoqun (26)
Wu, Jianhong (26)
O'Malley, Bob (23)

Keyword

singular value decomposition (15)
clustering (13)
92b05 (18)
90c30 (14)
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Publication Year

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2009 (81)
2012 (74)
2010 (72)
2005 (67)

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The screenshot shows a journal article page from SIAM Journal on Computing. The article title is "Identifying Distinguishing Motifs in DNA Sequences" by Meng Wang. The page includes navigation links for "Previous Article" and "Next Article", and tabs for "Abstract", "References", "PDF", and "Cited By".

Callouts on the page include:

- Title of the Journal**: Points to the journal name "SIAM Journal on Computing".
- Tools**: Points to the "Cited By" tab.
- Links to more articles by that author**: Points to the author's name "Meng Wang".
- Papers that quote**: Points to the "Cited by" section.
- Datos del paper**: Points to the "Keywords", "AMS Subject Headings", "Digital Object Identifier", and "Publication Data" sections.

Additional visible elements include a sidebar with social media links (Facebook, Twitter, CiteULike, Newsvine, Digg This, Delicious), a "Notify Me!" section, and a "Session History" section.



SIAM Journal on Computing

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Genetic Design of Drugs Without Side-Effects

Xiaotie Deng, Guojun Li, Zimao Li, Bin Ma, and Lusheng Wang

Consider two sets of strings, \mathcal{B} (bad genes) and \mathcal{G} (good genes), as well as two integers d_b and d_g ($d_b \leq d_g$). A frequently occurring problem in computational biology (and other fields) is to find a (distinguishing) substring s of length L that distinguishes the bad strings from good strings, i.e., such that for each string $s_i \in \mathcal{B}$ there exists a length- L substring t_i of s_i with $d(s, t_i) \leq d_b$ (close to bad strings), and for every substring u_j of length L of every string $s_j \in \mathcal{G}$, $d(s, u_j) \geq d_g$ (far from good strings).

We present a polynomial time approximation scheme to settle the problem; i.e., for any constant $\epsilon > 0$, the algorithm finds a string s of length L such that for every $s_i \in \mathcal{B}$ there is a length- L substring t_i of s_i with $d(t_i, s) \leq (1+\epsilon)d_b$, and for every substring u_j of length L of every $s_j \in \mathcal{G}$, $d(u_j, s) \geq (1-\epsilon)d_g$ if a solution to the original pair $(\mathcal{B}, \mathcal{G})$ exists. Since there is a polynomial number of such pairs $(\mathcal{B}, \mathcal{G})$, we can exhaust all the possibilities in polynomial time to find a good approximation required by the corresponding application problems.

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Cited by

- (2013) On approximating string selection problems with outliers. *Theoretical Computer Science* 498, 107-114
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- (2012) Identification of Distinguishing Motifs. *International Journal of Knowledge Discovery in Bioinformatics* 1:3, 53-67
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- 2012. Identification of Distinguishing Motifs. , 1-14.
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- (2012) A three string approach to the closest string problem. *Journal of Computer and System Sciences* 78:1, 164-178

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Genetic Design of Drugs Without Side-Effects

Xiaotie Deng, Guojun Li, Zimao Li, Bin Ma, and Lusheng Wang

Abstract

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[1] Amir Ben-Dor, Giuseppe Lancia, Jennifer Perone, R. Ravi, Banishing bias from consensus sequences, *Lecture Notes in Comput. Sci.*, Vol. 1264, Springer, Berlin, 1997, 247–261

[2] J. Dopazo, A. Rodríguez, J. C. Sáiz, and F. Sobrino, Design of primers for PCR amplification of highly variable genomes, *Comput. Appl. Biosci.*, **9** (1993), pp. 123–125.

[3] L. Gaśieniec, J. Jansson, and A. Lingas, Efficient approximation algorithms for the

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GENETIC DESIGN OF DRUGS WITHOUT SIDE-EFFECTS*

XIAOTIE DENG[†], GUOJUN LI[‡], ZIMAO LI[§], BIN MA[¶], AND LUSHENG WANG[†]

Abstract. Consider two sets of strings, \mathcal{B} (bad genes) and \mathcal{G} (good genes), as well as two integers d_b and d_g ($d_b \leq d_g$). A frequently occurring problem in computational biology (and other fields) is to find a (distinguishing) substring s of length L that distinguishes the bad strings from good strings, i.e., such that for each string $s_i \in \mathcal{B}$ there exists a length- L substring t_i of s_i with $d(s, t_i) \leq d_b$ (close to bad strings), and for every substring u_i of length L of every string $g_i \in \mathcal{G}$, $d(s, u_i) \geq d_g$ (far from good strings).

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Key words. approximation algorithms, computational molecular biology, distinguishing substring selection

AMS subject classifications. 68W25, 90C27, 92D20

DOI. 10.1137/S0097539701397825

1. Introduction. Research effort in molecular biology, such as the human genome project, has been revealing the secret of our genetic composition, the long DNA sequences that can determine many aspects of life. Applications that use this information have posed new challenges to the design and analysis of efficient computational methods.

A frequently recurring problem in biological applications is to find one substring of length L that appears (with a few substitutions) at least once in each of a set of bad strings (such as bacterial sequences) and is not “close” to any substring of length

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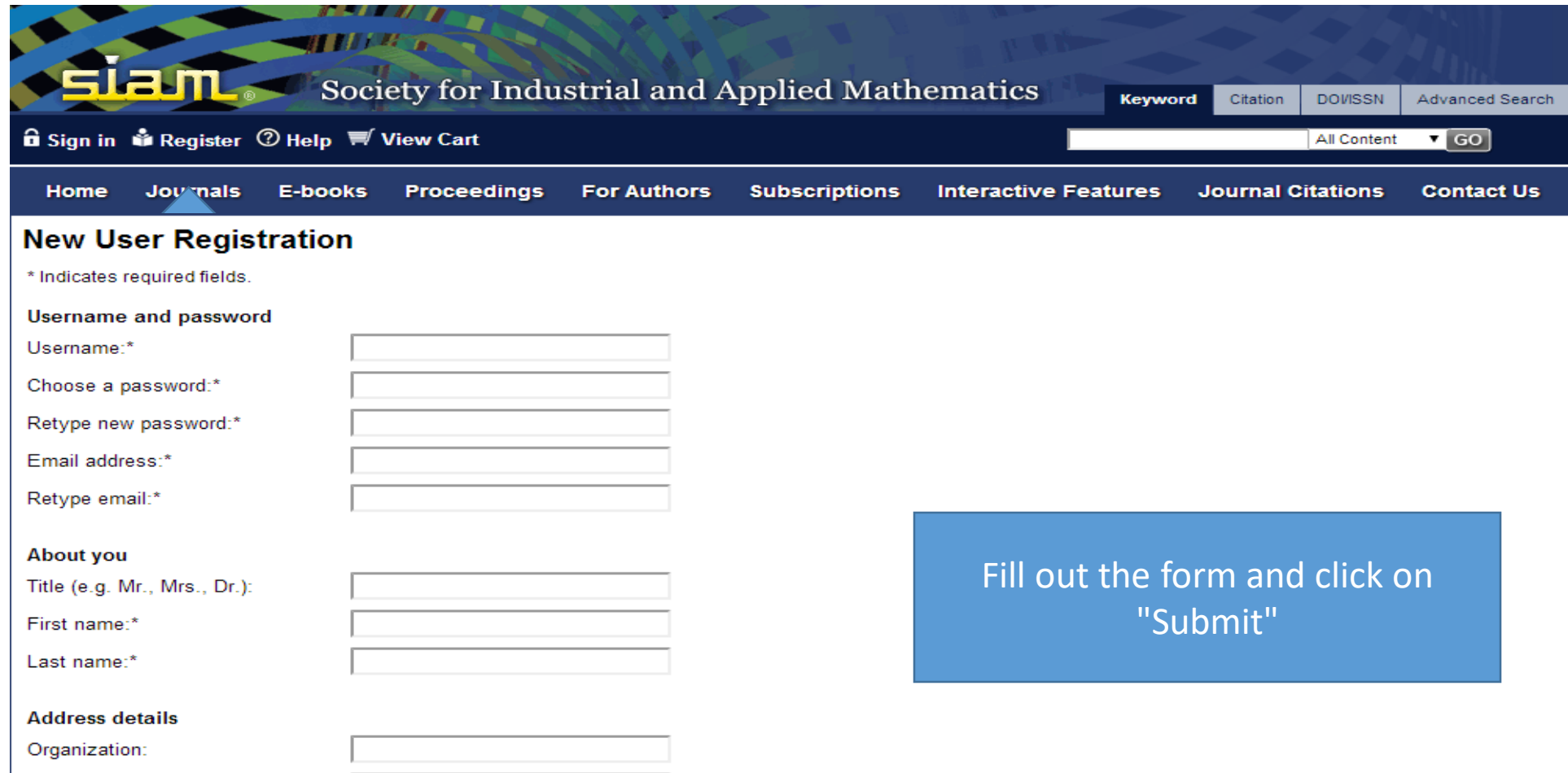
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More options on homepage

The screenshot shows the SIAM website homepage. At the top, there is a navigation bar with links for Home, Journals, E-books, Proceedings, For Authors, Subscriptions, Interactive Features, Journal Citations, and Contact Us. Below this, there are several sections: a list of journals, a section for Interactive Features (including Facebook, Flickr, Twitter, and YouTube), and a section for Proceedings. Two blue callout boxes are overlaid on the page. The first callout, pointing to the 'Journals' menu, contains the text 'Browse in each of the journals'. The second callout, pointing to the 'Interactive Features' section, contains the text 'Go to social networks where SIAM is, as well as its YouTube channel'. A blue arrow on the left side of the slide points towards the 'Journals' menu.



The screenshot shows the Siam website's "New User Registration" page. The header includes the Siam logo and "Society for Industrial and Applied Mathematics". Navigation links include Home, Journals, E-books, Proceedings, For Authors, Subscriptions, Interactive Features, Journal Citations, and Contact Us. A search bar is present with a "GO" button. The registration form is titled "New User Registration" and includes a note: "* Indicates required fields." The form is divided into three sections: "Username and password" with fields for Username, Choose a password, Retype new password, Email address, and Retype email; "About you" with fields for Title (e.g. Mr., Mrs., Dr.), First name, and Last name; and "Address details" with an Organization field. A blue callout box on the right says "Fill out the form and click on 'Submit'". A blue arrow on the left points towards the form.

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