IEEE COPYRIGHT AND CONSENT FORM

To ensure uniformity of treatment among all contributors, other forms may not be substituted for this form, nor may any wording of the form be changed. This form is intended for original material submitted to the IEEE and must accompany any such material in order to be published by the IEEE. Please read the form carefully and keep a copy for your files.

TITLE OF PAPER/ARTICLE/REPORT, INCLUDING ALL CONTENT IN ANY FORM, FORMAT, OR MEDIA (hereinafter, "the Work"): L-Shape Piezoelectric Motor - Part II: Design and Experimental Analysis

COMPLETE LIST OF AUTHORS: Aniroyk, Dragun, Priya, Shashank

IEEE PUBLICATION TITLE (Journal, Magazine, Conference, Book): Transactions on Ultrasonics, Ferroelectrics, and Frequency Control

COPYRIGHT TRANSFER

1. The undersigned hereby assigns to The Institute of Electrical and Electronics Engineers, Incorporated (the "IEEE") all rights under copyright that may exist in and to: (a) the above Work, including any revised or expanded derivative works submitted to the IEEE by the undersigned based on the Work; and (b) any associated written or multimedia components or other enhancements accompanying the Work.

CONSENT AND RELEASE

2. In the event the undersigned makes a presentation based upon the Work at a conference hosted or sponsored in whole or in part by the IEEE, the undersigned, in consideration for his/her participation in the conference, hereby grants the IEEE the unlimited, worldwide, irrevocable permission to use, distribute, publish, license, exhibit, record, digitize, broadcast, reproduce and archive, in any format or medium, whether now known or hereafter developed: (a) his/her presentation and comments at the conference; (b) any written materials or multimedia files used in connection with his/her presentation; and (c) any recorded interviews of his/her (collectively, the "Presentation"). The permission granted includes the transcription and reproduction of the Presentation for inclusion in products sold or distributed by IEEE and live or recorded broadcast of the Presentation during or after the conference.

3. In connection with the permission granted in Section 2, the undersigned hereby grants IEEE the unlimited, worldwide, irrevocable right to use his/her name, picture, likeness, voice and biographical information as part of the advertisement, distribution and sale of products incorporating the Work or Presentation, and releases IEEE from any claim based on right of privacy or publicity.

4. The undersigned hereby warrants that the Work and Presentation (collectively, the "Materials") are original and that he/she is the author of the Materials. To the extent the Materials incorporate text, passages, figures, data or other material from the works of others, the undersigned has obtained any necessary permissions. Where necessary, the undersigned has obtained all third party permissions and consents to grant the license above and has provided copies of such permissions and consents to IEEE.

☐ Please check this box if you do not wish to have video/audio recordings made of your conference presentation.
See reverse side for Retained Rights/Terms and Conditions, and Author Responsibilities.

GENERAL TERMS

- The undersigned represents that he/she has the power and authority to make and execute this assignment.
- The undersigned agrees to indemnify and hold harmless the IEEE from any damage or expense that may arise in the event of a breach of any of the warranties set forth above.
- In the event the above work is not accepted and published by the IEEE or is withdrawn by the author(s) before acceptance by the IEEE, the foregoing copyright transfer shall become null and void and all materials embodying the Work submitted to the IEEE will be destroyed.
- For jointly authored Works, all joint authors should sign, or one of the authors should sign as authorized agent for the others.

(i) Dragun, Aniroyk

10/14/2011

Author/Authorized Agent for Joint Authors

U.S. GOVERNMENT EMPLOYEE CERTIFICATION (WHERE APPLICABLE)

This will certify that all authors of the Work are U.S. government employees and prepared the Work on a subject within the scope of their official duties. As such, the Work is not subject to U.S. copyright protection.

(2) Authorized Signature

Date

(Authors who are U.S. government employees should also sign signature line (1) above to enable the IEEE to claim and protect its copyright in international jurisdictions.)

CROWN COPYRIGHT CERTIFICATION (WHERE APPLICABLE)

This will certify that all authors of the Work are employees of the British or British Commonwealth Government and prepared the Work in connection with their official duties. As such, the Work is subject to Crown Copyright and is not assigned to the IEEE as set forth in the first sentence of the Copyright Transfer Section above. The undersigned acknowledges, however, that the IEEE has the right to publish, distribute and reprint the Work in all forms and media.

(3) Authorized Signature

Date

(Authors who are British or British Commonwealth Government employees should also sign line (1) above to indicate their acceptance of all terms other than the copyright transfer.)

rev. 020711
IEEE COPYRIGHT FORM

To ensure uniformity of treatment among all contributors, other forms may not be substituted for this form, nor may any wording of the form be changed. This form is intended for original material submitted to the IEEE and must accompany any such material in order to be published by the IEEE. Please read the form carefully and keep a copy for your files.

TITLE OF PAPER/ARTICLE/REPORT/PRESENTATION/SPEECH (hereinafter, “the Work”):
L-Shape Piezoelectric Motor – Part II: Analytical Modeling

COMPLETE LIST OF AUTHORS:
D. Avirovik, M. Amin Karumi, D. Inman, and S. Priya

IEEE PUBLICATION TITLE (Journal, Magazine, Conference, Book):
IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control

Copyright Transfer

The undersigned hereby assigns to the Institute of Electrical and Electronics Engineers, Incorporated (the “IEEE”) all rights under copyright that may exist in and to the above Work, and any revised or expanded derivative works submitted to the IEEE by the undersigned based on the Work. The undersigned hereby warrants that the Work is original and that he/she is the author of the Work; to the extent the Work incorporates text passages, figures, data or other material from the works of others, the undersigned has obtained any necessary permissions. See reverse side for Retained Rights and other Terms and Conditions.

Author Responsibilities

The IEEE distributes its technical publications throughout the world and wants to ensure that the material submitted to its publications is properly available to the readership of those publications. Authors must ensure that their Work meets the requirements of IEEE Policy 6.4, including provisions covering originality, authorship, author responsibilities and author misconduct. The full policy may be viewed at http://www.ieee.org/about/policies/p6-4.xml. Authors are advised especially of IEEE Policy 6.4.1(h): “It is the responsibility of the authors, not the IEEE, to determine whether disclosure of their material requires the prior consent of other parties and, if so, to obtain it.” Authors are also advised of IEEE Policy 6.3.B: “It shall be acknowledged that statements and opinions given in work published by the IEEE are the expression of the authors. Responsibility for the content of published papers rests upon the authors, not IEEE.”

General Terms

- The undersigned represents that he/she has the power and authority to make and execute this assignment.
- The undersigned agrees to indemnify and hold harmless the IEEE from any damage or expense that may arise in the event of a breach of any of the warranties set forth above.
- In the event the above work is not accepted and published by the IEEE or is withdrawn by the author(s) before acceptance by the IEEE, the foregoing copyright transfer shall become null and void and all materials embodying the Work submitted to the IEEE will be destroyed.
- For jointly authored Works, all joint authors should sign, or one of the authors should sign as authorized agent for the others.

(1) Dragan Avirovik
Author/Authorized Agent for Joint Authors

07/12/2011
Date

U.S. Government Employee Certification (where applicable)

This will certify that all authors of the Work are U.S. government employees and prepared the Work on a subject within the scope of their official duties. As such, the Work is not subject to U.S. copyright protection.

(2) Authorized Signature

Date

(Authors who are U.S. government employees should also sign signature line (1) above to enable the IEEE to claim and protect its copyright in international jurisdictions.)

Crown Copyright Certification (where applicable)

This will certify that all authors of the Work are employees of the British or British Commonwealth Government and prepared the Work in connection with their official duties. As such, the Work is subject to Crown Copyright and is not assigned to the IEEE as set forth in the first sentence of the Copyright Transfer Section above. The undersigned acknowledges, however, that the IEEE has the right to publish, distribute and repackage the Work in all forms and media.

(3) Authorized Signature

Date

(Authors who are British or British Commonwealth Government employees should also sign line (1) above to indicate their acceptance of all terms other than the copyright transfer.)

rev. 12/1/02
IEEE COPYRIGHT FORM (continued)

RETAINED RIGHTS/TERMS AND CONDITIONS

1. Authors/employers retain all proprietary rights in any process, procedure, or article of manufacture described in the Work.

2. Authors/employers may reproduce or authorize others to reproduce the Work, material extracted verbatim from the Work, or derivative works for the author’s personal use or for company use, provided that the source and the IEEE copyright notice are indicated, the copies are not used in any way that implies IEEE endorsement of a product or service of any employer, and the copies themselves are not offered for sale.

3. Authors/employers may make limited distribution of all or portions of the Work prior to publication if they inform the IEEE in advance of the nature and extent of such limited distribution.

4. In the case of a Work performed under a U.S. Government contract or grant, the IEEE recognizes that the U.S. Government has royalty-free permission to reproduce all or portions of the Work, and to authorize others to do so, for official U.S. Government purposes only, if the contract/grant so requires.

5. For all uses not covered by items 2, 3, and 4, authors/employers must request permission from the IEEE Intellectual Property Rights office to reproduce or authorize the reproduction of the Work or material extracted verbatim from the Work, including figures and tables.

6. Although authors are permitted to re-use all or portions of the Work in other works, this does not include granting third-party requests for reprinting, republishing, or other types of re-use. The IEEE Intellectual Property Rights office must handle all such third-party requests.

INFORMATION FOR AUTHORS

IEEE Copyright Ownership

It is the formal policy of the IEEE to own the copyrights to all copyrightable material in its technical publications and to the individual contributions contained therein, in order to protect the interests of the IEEE, its authors and their employers, and, at the same time, to facilitate the appropriate re-use of this material by others. The IEEE distributes its technical publications throughout the world and does so by various means such as hard copy, microfiche, microfilm, and electronic media. It also abstracts and may translate its publications, and articles contained therein, for inclusion in various compendiums, collective works, databases and similar publications.

Author/Employer Rights

If you are employed and prepared the Work on a subject within the scope of your employment, the copyright in the Work belongs to your employer as a work-for-hire. In that case, the IEEE assumes that when you sign this Form, you are authorized to do so by your employer and that your employer has consented to the transfer of copyright, to the representation and warranty of publication rights, and to all other terms and conditions of this Form. If such authorization and consent has not been given to you, an authorized representative of your employer should sign this Form as the Author.

Reprint/Republication Policy

The IEEE requires that the consent of the first-named author and employer be sought as a condition to granting reprint or republication rights to others or for permitting use of a Work for promotion or marketing purposes.

PLEASE DIRECT ALL QUESTIONS ABOUT THIS FORM TO:
Manager, IEEE Intellectual Property Rights Office, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08854-1131. Telephone +1 (732) 562-3966
Links to IEEE Web Sites

For more information about the IEEE Copyright Form, please visit:

http://www.ieee.org/copyright/cfrmlink.htm

For information about IEEE U.S. export control compliance issues, please visit:

http://www.ieee.org/organizations/tab/export_compliance.html
IEEE COPYRIGHT AND CONSENT FORM

To ensure uniformity of treatment among all contributors, other forms may not be substituted for this form, nor may any wording of the form be changed. This form is intended for original material submitted to the IEEE and must accompany any such material in order to be published by the IEEE. Please read the form carefully and keep a copy for your files.

TITLE OF PAPER/ARTICLE/REPORT, INCLUDING ALL CONTENT IN ANY FORM, FORMAT, OR MEDIA (hereinafter, "The Work"): L-Shape Piezoelectric Motor â Part I: Design and Experimental Analysis

COMPLETE LIST OF AUTHORS: Avirovik, Dragan; priya, Shashank

IEEE PUBLICATION TITLE (Journal, Magazine, Conference, Book): Transactions on Ultrasonics, Ferroelectrics, and Frequency Control

COPYRIGHT TRANSFER

1. The undersigned hereby assigns to The Institute of Electrical and Electronics Engineers, Incorporated (the "IEEE") all rights under copyright that may exist in and to: (a) the above Work, including any revised or expanded derivative works submitted to the IEEE by the undersigned based on the Work; and (b) any associated written or multimedia components or other enhancements accompanying the Work.

CONSENT AND RELEASE

2. In the event the undersigned makes a presentation based upon the Work at a conference hosted or sponsored in whole or in part by the IEEE, the undersigned, in consideration for his/her participation in the conference, hereby grants the IEEE the unlimited, worldwide, irrevocable permission to use, distribute, publish, license, exhibit, record, digitize, broadcast, reproduce and archive, in any format or medium, whether now known or hereafter developed: (a) his/her presentation and comments at the conference; (b) any written materials or multimedia files used in connection with his/her presentation; and (c) any recorded interviews of him/her (collectively, the "Presentation"). The permission granted includes the transcription and reproduction of the Presentation for inclusion in products sold or distributed by IEEE and live or recorded broadcast of the Presentation during or after the conference.

3. In connection with the permission granted in Section 2, the undersigned hereby grants IEEE the unlimited, worldwide, irrevocable right to use his/her name, picture, likeness, voice and biographical information as part of the advertisement, distribution and sale of products incorporating the Work or Presentation, and releases IEEE from any claim based on right of privacy or publicity.

4. The undersigned hereby warrants that the Work and Presentation (collectively, the "Materials") are original and that he/she is the author of the Materials. To the extent the Materials incorporate text passages, figures, data or other material from the works of others, the undersigned has obtained any necessary permissions. Where necessary, the undersigned has obtained all third party permissions and consents to grant the license above and has provided copies of such permissions and consents to IEEE.

[ ] Please check this box if you do not wish to have video/audio recordings made of your conference presentation.

See below for Retained Rights/Terms and Conditions, and Author Responsibilities.

AUTHOR RESPONSIBILITIES

The IEEE distributes its technical publications throughout the world and wants to ensure that the material submitted to its publications is properly available to the readership of those publications. Authors must ensure that their Work meets the requirements as stated in section 8.2.1 of the IEEE
PSPB Operations Manual, including provisions covering originality, authorship, author responsibilities and author misconduct. More information on IEEE's publishing policies may be found at http://www.ieee.org/publications_standards/publications/rights/pub_tools_policies.html. Authors are advised especially of IEEE PSPB Operations Manual section 8.2.1.B12: "It is the responsibility of the authors, not the IEEE, to determine whether disclosure of their material requires the prior consent of other parties and, if so, to obtain it." Authors are also advised of IEEE PSPB Operations Manual section 8.1.1B: "Statements and opinions given in work published by the IEEE are the expression of the authors."

RETAINED RIGHTS/TERMS AND CONDITIONS

General

1. Authors/employers retain all proprietary rights in any process, procedure, or article of manufacture described in the Work.

2. Authors/employers may reproduce or authorize others to reproduce the Work, material extracted verbatim from the Work, or derivative works for the author's personal use or for company use, provided that the source and the IEEE copyright notice are indicated, the copies are not used in any way that implies IEEE endorsement of a product or service of any employer, and the copies themselves are not offered for sale.

3. In the case of a Work performed under a U.S. Government contract or grant, the IEEE recognizes that the U.S. Government has royalty-free permission to reproduce all or portions of the Work, and to authorize others to do so, for official U.S. Government purposes only, if the contract/grant so requires.

4. Although authors are permitted to re-use all or portions of the Work in other works, this does not include granting third-party requests for reprinting, republishing, or other types of re-use. The IEEE Intellectual Property Rights office must handle all such third-party requests.

5. Authors whose work was performed under a grant from a government funding agency are free to fulfill any deposit mandates from that funding agency.

Author Online Use

6. Personal Servers. Authors and/or their employers shall have the right to post the accepted version of IEEE-copyrighted articles on their own personal servers or the servers of their institutions or employers without permission from IEEE, provided that the posted version includes a prominently displayed IEEE copyright notice and, when published, a full citation to the original IEEE publication, including a link to the article abstract in IEEE Xplore. Authors shall not post the final, published versions of their papers.

7. Classroom or Internal Training Use. An author is expressly permitted to post any portion of the accepted version of his/her own IEEE-copyrighted articles on the authors personal web site or the servers of the authors institution or company in connection with the authors teaching, training, or work responsibilities, provided that the appropriate copyright, credit, and reuse notices appear prominently with the posted material. Examples of permitted uses are lecture materials, course packs, e-reserves, conference presentations, or in-house training courses.

8. Electronic Preprints. Before submitting an article to an IEEE publication, authors frequently post their manuscripts to their own web site, their employers site, or to another server that invites constructive comment from colleagues. Upon submission of an article to IEEE, an author is required to transfer copyright in the article to IEEE, and the author must update any previously posted version of the article with a prominently displayed IEEE copyright notice. Upon publication of an article by the IEEE, the author must replace any previously posted electronic versions of the article with either (1) the full citation to the IEEE work with a Digital Object Identifier (DOI) or link to the article abstract in IEEE Xplore, or (2) the accepted version only (not the IEEE-published version), including the IEEE copyright notice and full citation, with a link to the final, published article in IEEE Xplore.

INFORMATION FOR AUTHORS

IEEE Copyright Ownership
It is the formal policy of the IEEE to own the copyrights to all copyrightable material in its technical publications and to the individual contributions contained therein, in order to protect the interests of the IEEE, its authors and their employers, and, at the same time, to facilitate the appropriate re-use of this material by others. The IEEE distributes its technical publications throughout the world and does so by various means such as hard copy, microfiche, microfilm, and electronic media. It also abstracts and may translate its publications, and articles contained therein, for inclusion in various compendiums, collective works, databases and similar publications.

**Author/Employer Rights**

If you are employed and prepared the Work on a subject within the scope of your employment, the copyright in the Work belongs to your employer as a work-for-hire. In that case, the IEEE assumes that when you sign this Form, you are authorized to do so by your employer and that your employer has consented to the transfer of copyright, to the representation and warranty of publication rights, and to all other terms and conditions of this Form. If such authorization and consent has not been given to you, an authorized representative of your employer should sign this Form as the Author.

**GENERAL TERMS**

1. The undersigned represents that he/she has the power and authority to make and execute this form.
2. The undersigned agrees to identify and hold harmless the IEEE from any damage or expense that may arise in the event of a breach of any of the warranties set forth above.
3. In the event the above work is not accepted and published by the IEEE or is withdrawn by the author(s) before acceptance by the IEEE, the foregoing grant of rights shall become null and void and all materials embodying the Work submitted to the IEEE will be destroyed.
4. For jointly authored Works, all joint authors should sign, or one of the authors should sign as authorized agent for the others.

**Authorized Agent For Joint Authors**

**Date(dd-mm-yy)**

THIS FORM MUST ACCOMPANY THE SUBMISSION OF THE AUTHOR’S MANUSCRIPT.

Questions about the submission of the form or manuscript must be sent to the publication's editor. Please direct all questions about IEEE copyright policy to:

IEEE Intellectual Property Rights Office, copyrights@ieee.org, +1-732-562-3966 (telephone)
TITLE OF PAPER/ARTICLE/REPORT, INCLUDING ALL CONTENT IN ANY FORM, FORMAT, OR MEDIA (hereinafter, "The Work"): Crawling-inspired robot utilizing L-Shape piezoelectric actuators

COMPLETE LIST OF AUTHORS: Dragan Avirovik, Shashank Priya


COPYRIGHT TRANSFER

1. The undersigned hereby assigns to The Institute of Electrical and Electronics Engineers, Incorporated (the "IEEE") all rights under copyright that may exist in and to: (a) the above Work, including any revised or expanded derivative works submitted to the IEEE by the undersigned based on the Work; and (b) any associated written or multimedia components or other enhancements accompanying the Work.

CONSENT AND RELEASE

2. In the event the undersigned makes a presentation based upon the Work at a conference hosted or sponsored in whole or in part by the IEEE, the undersigned, in consideration for his/her participation in the conference, hereby grants the IEEE the unlimited, worldwide, irrevocable permission to use, distribute, publish, license, exhibit, record, digitize, broadcast, reproduce and archive, in any format or medium, whether now known or hereafter developed: (a) his/her presentation and comments at the conference; (b) any written materials or multimedia files used in connection with his/her presentation; and (c) any recorded interviews of him/her (collectively, the "Presentation"). The permission granted includes the transcription and reproduction of the Presentation for inclusion in products sold or distributed by IEEE and live or recorded broadcast of the Presentation during or after the conference.

3. In connection with the permission granted in Section 2, the undersigned hereby grants IEEE the unlimited, worldwide, irrevocable right to use his/her name, picture, likeness, voice and biographical information as part of the advertisement, distribution and sale of products incorporating the Work or Presentation, and releases IEEE from any claim based on right of privacy or publicity.

4. The undersigned hereby warrants that the Work and Presentation (collectively, the "Materials") are original and that he/she is the author of the Materials. To the extent the Materials incorporate text passages, figures, data or other material from the works of others, the undersigned has obtained any necessary permissions. Where necessary, the undersigned has obtained all third party permissions and consents to grant the license above and has provided copies of such permissions and consents to IEEE.

[ ] Please check this box if you do not wish to have video/audio recordings made of your conference presentation.

See below for Retained Rights/Terms and Conditions, and Author Responsibilities.

AUTHOR RESPONSIBILITIES

The IEEE distributes its technical publications throughout the world and wants to ensure that the material submitted to its publications is properly available to the readership of those publications. Authors must ensure that their Work meets the requirements as stated in section 8.2.1 of the IEEE
PSPB Operations Manual, including provisions covering originality, authorship, author responsibilities and author misconduct. More information on IEEE's publishing policies may be found at http://www.ieee.org/publications_standards/publications/rights/pub_tools_policies.html. Authors are advised especially of IEEE PSPB Operations Manual section 8.2.1.B12: "It is the responsibility of the authors, not the IEEE, to determine whether disclosure of their material requires the prior consent of other parties and, if so, to obtain it." Authors are also advised of IEEE PSPB Operations Manual section 8.1.1B: "Statements and opinions given in work published by the IEEE are the expression of the authors."

RETAINED RIGHTS/TERMS AND CONDITIONS

General

1. Authors/employers retain all proprietary rights in any process, procedure, or article of manufacture described in the Work.

2. Authors/employers may reproduce or authorize others to reproduce the Work, material extracted verbatim from the Work, or derivative works for the author's personal use or for company use, provided that the source and the IEEE copyright notice are indicated, the copies are not used in any way that implies IEEE endorsement of a product or service of any employer, and the copies themselves are not offered for sale.

3. In the case of a Work performed under a U.S. Government contract or grant, the IEEE recognizes that the U.S. Government has royalty-free permission to reproduce all or portions of the Work, and to authorize others to do so, for official U.S. Government purposes only, if the contract/grant so requires.

4. Although authors are permitted to re-use all or portions of the Work in other works, this does not include granting third-party requests for reprinting, republishing, or other types of re-use. The IEEE Intellectual Property Rights office must handle all such third-party requests.

5. Authors whose work was performed under a grant from a government funding agency are free to fulfill any deposit mandates from that funding agency.

Author Online Use

6. Personal Servers. Authors and/or their employers shall have the right to post the accepted version of IEEE-copyrighted articles on their own personal servers or the servers of their institutions or employers without permission from IEEE, provided that the posted version includes a prominently displayed IEEE copyright notice and, when published, a full citation to the original IEEE publication, including a link to the article abstract in IEEE Xplore. Authors shall not post the final, published versions of their papers.

7. Classroom or Internal Training Use. An author is expressly permitted to post any portion of the accepted version of his/her own IEEE-copyrighted articles on the authors personal web site or the servers of the authors institution or company in connection with the authors teaching, training, or work responsibilities, provided that the appropriate copyright, credit, and reuse notices appear prominently with the posted material. Examples of permitted uses are lecture materials, course packs, e-reserves, conference presentations, or in-house training courses.

8. Electronic Preprints. Before submitting an article to an IEEE publication, authors frequently post their manuscripts to their own web site, their employers site, or to another server that invites constructive comment from colleagues. Upon submission of an article to IEEE, an author is required to transfer copyright in the article to IEEE, and the author must update any previously posted version of the article with a prominently displayed IEEE copyright notice. Upon publication of an article by the IEEE, the author must replace any previously posted electronic versions of the article with either (1) the full citation to the IEEE work with a Digital Object Identifier (DOI) or link to the article abstract in IEEE Xplore, or (2) the accepted version only (not the IEEE-published version), including the IEEE copyright notice and full citation, with a link to the final, published article in IEEE Xplore.

INFORMATION FOR AUTHORS

IEEE Copyright Ownership
It is the formal policy of the IEEE to own the copyrights to all copyrightable material in its technical publications and to the individual contributions contained therein, in order to protect the interests of the IEEE, its authors and their employers, and, at the same time, to facilitate the appropriate re-use of this material by others. The IEEE distributes its technical publications throughout the world and does so by various means such as hard copy, microfiche, microfilm, and electronic media. It also abstracts and may translate its publications, and articles contained therein, for inclusion in various compendiums, collective works, databases and similar publications.

Author/Employer Rights

If you are employed and prepared the Work on a subject within the scope of your employment, the copyright in the Work belongs to your employer as a work-for-hire. In that case, the IEEE assumes that when you sign this Form, you are authorized to do so by your employer and that your employer has consented to the transfer of copyright, to the representation and warranty of publication rights, and to all other terms and conditions of this Form. If such authorization and consent has not been given to you, an authorized representative of your employer should sign this Form as the Author.

GENERAL TERMS

1. The undersigned represents that he/she has the power and authority to make and execute this form.
2. The undersigned agrees to identify and hold harmless the IEEE from any damage or expense that may arise in the event of a breach of any of the warranties set forth above.
3. In the event the above work is not accepted and published by the IEEE or is withdrawn by the author(s) before acceptance by the IEEE, the foregoing grant of rights shall become null and void and all materials embodying the Work submitted to the IEEE will be destroyed.
4. For jointly authored Works, all joint authors should sign, or one of the authors should sign as authorized agent for the others.

Dragan Avirovik
Author/Authorized Agent For Joint Authors
19-05-2013
Author/Authorized Agent For Joint Authors
Date(dd-mm-yy)

THIS FORM MUST ACCOMPANY THE SUBMISSION OF THE AUTHOR'S MANUSCRIPT.

Questions about the submission of the form or manuscript must be sent to the publication's editor. Please direct all questions about IEEE copyright policy to:
IEEE Intellectual Property Rights Office, copyrights@ieee.org, +1-732-562-3966 (telephone)
TRANSFER OF COPYRIGHT TO SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE)

Title of Paper: Miniature multifunctional high-performance three-axis positioning and scanning platform

SPIE Paper Number: (xxxx-xx) Contact Author Email: avirovik@vt.edu

Author(s): Dragan Avirovik, Digant Dave, Shashank Priya

This signed statement must be returned to SPIE prior to the scheduled publication of the Proceedings or Journal in which the Paper will be published. The intent of this Agreement is to protect the interests of both SPIE and authors/employers and to specify reasonable rights for both parties related to publication and reuse of the material.

The undersigned hereby assign(s) to Society of Photo-Optical Instrumentation Engineers (SPIE) copyright ownership in the above Paper, effective if and when the Paper is accepted for publication by SPIE and to the extent transferable under applicable national law. This assignment gives SPIE the right to register copyright to the Paper in its name as claimant and to publish the Paper in any print or electronic medium.

Authors, or their employers in the case of works made for hire, retain the following rights:

1. All proprietary rights other than copyright, including patent rights.
2. The right to make and distribute copies of the Paper for internal purposes.
3. The right to use the material for lecture or classroom purposes.
4. The right to prepare derivative publications based on the Paper, including books or book chapters, journal papers, and magazine articles, provided that publication of a derivative work occurs subsequent to the official date of publication by SPIE.
5. The right to post an author-prepared version or an official version (preferred version) of the published paper on an internal or external server controlled exclusively by the author/employer, provided that (a) such posting is noncommercial in nature and the paper is made available to users without charge; (b) a copyright notice and full citation appear with the paper, and (c) a link to SPIE's official online version of the abstract is provided using the DOI (Document Object Identifier) link.

Citation format:
Author(s), "Paper Title," Publication Title, Editors, Volume (Issue) Number, Article (or Page) Number, (Year).

Copyright notice format:
Copyright XXXX (year) Society of Photo-Optical Instrumentation Engineers. One print or electronic copy may be made for personal use only. Systematic reproduction and distribution, duplication of any material in this paper for a fee or for commercial purposes, or modification of the content of the paper are prohibited.

DOI abstract link format:
http://dx.doi.org/DOI (Note: The DOI can be found on the title page or online abstract page of any SPIE article.)

If the work that forms the basis of this Paper was done under a contract with a governmental agency or other entity that retains certain rights, this Transfer of Copyright is subject to any rights that such governmental agency or other entity may have acquired.

By signing this Agreement, the authors warrant that (1) the Paper is original and has not previously been published elsewhere; (2) this work does not infringe on any copyright or other rights in any other work; (3) all necessary reproduction permissions, licenses, and clearances have been obtained; and (4) the authors own the copyright in the Paper, are authorized to transfer it, and have full power to enter into this Agreement with SPIE.

WHO SHOULD SIGN. This form must be signed by (1) at least one author who is not a U.S. Government employee and (2) the author's employer if the Paper was prepared within the scope of the author's employment or was commissioned by the employer. If not signed by all authors, the author(s) signing this Agreement represents that he/she is signing this Agreement as authorized agent for and on behalf of all the authors.

Dragan Avirovik
Date (mm/dd/yyyy)

Authorized Employer signature
Print name
Title
Date (mm/dd/yyyy)

U.S. GOVERNMENT EMPLOYMENT CERTIFICATION
A work prepared by a U.S. Government employee as part of his or her official duties is not eligible for U.S. Copyright. If all authors were U.S. Government employees when this Paper was prepared, and the authors prepared this Paper as part of their official duties, at least one author should sign below. If at least one author was not a U.S. Government employee, the work is eligible for copyright and that author should sign the Transfer of Copyright form above.

Director of Publications, SPIE, P.O. Box 10, Bellingham, WA 98227-0010 USA
Phone: 360/676-3290 (Pacific Time) • Fax: 360/676-1445 • E-mail: authorhelp@spie.org • http://SPIE.org Revised 3 Feb 2012
Assignment of copyright - IOP Publishing Limited

1. IOP Publishing Limited ("IOP") agrees to publish:

Manuscript Title: Remote light energy harvesting and actuation using shape-memory alloy - piezoelectric hybrid transducer ("the Article") written by

Names of all Authors: Dragjan Avirevik, Ashok Kumar, Robert Bohrer, Shashank Prpy ("the Named Authors")

In the following journal: Smart Materials and Structures ("the Journal")

2. Transfer of Copyright Agreement

2.1 On acceptance for publication the undersigned author(s) ("Author") of the Article assigns exclusively to IOP worldwide copyright in the Article for the full term and for all media and formats in which the Article is published as part of the Article, which expression includes but is not limited to the text, abstract, tables, figures, graphs, video abstracts and other multimedia content but excludes any other re supplementary material.

2.2 Any of the Named Authors are Government employees, an acceptance for publication the Author shall grant IOP a royalty free exclusive licence for the full term of copyright for all media in relation to the Article at ads restricted by copyright worldwide.

2.3 On acceptance for publication the Author shall grant IOP a royalty free non-exclusively licence for the full term of copyright for all media and formats to do in relation to any supplementary material in the part of the Article at ads restricted by copyright worldwide.

3. Author Rights

3.1 IOP grants: the Named Authors the rights specified in 3.2 and 3.3. All other rights must be exercised for non-commercial purposes. It possible should clarify claim information and IDPs or and for electronic use both efforts must be made to include a link to the on-the abstract the Journal. Exercise of the rights in 3.3 additionally must not use the final published IOP format but if Author's own format (which may include amendments made following peer review).

3.2 The rights are:

3.2.1 To make copies of the Article (all or part) for teaching purposes;
3.2.2 To include the Article (all or part) in a research thesis or dissertation;
3.2.3 To make oral presentation of the Article (all or part) and to include a summary and/ or highlights of it in papers distributed at such presentations or in conference proceedings; and
3.2.4 Any proprietary rights other than copyright.

3.3 This additional rights are to:

3.3.1 Use the Article (all or part) without modification in personal communications or publications of a Named Author's own works (provided not created by third party publisher);
3.3.2 Include the Article (all or part) on a Named Author's own personal web site;
3.3.3 Include the Article (all or part) on web sites of the institution (including its repository) where a Named Author worked when research for the Article was carried out;
3.3.4 No sooner than 12 months after publication to include the Article (all or part) on third party web sites including e-print services, but not on other publisher's web sites.

Signature

In signing this Agreement the Author represents and warrants that the Article is the original work of the Named Authors. It has not been published previously in any form (other than as permitted under c fact has been notified to IOP Publishing Ltd (in writing), all Named Authors have performed sufficiently in the conception and writing of the Article, have received the final version of the Article, access to take responsibility for it, and submission that the articles is original and not a duplication of work. The author will sign this Agreement as the amended work for all Named Authors and has the full power to enter into this Agreement and to make the grant it contains, that the Article is not to be submitted to another publisher prior to without prior written or to the latter, the Article will not be submitted to another publisher prior to without prior written or to the latter. The Article is not to be submitted to another publisher prior to without prior written or to the latter. All Named Authors assert their moral rights.

Author's signature: Dragjan Avirevik Date: 03/22/2013

Signature on behalf of institution: Dragjan Avirevik Date: 03/22/2013

Note that if the Article was prepared as part of a Named Author's duties for their institution this Agreement must be signed by the institution as Author. Further, if there are several it should be signed by one author in a representative capacity. If all Named Authors are employees of the US Government and the Article was prepared as part of their duties the Art for copyright and one of the Named Authors should sign below to confirm this fact. If at least one of the Named Authors is not a US Government employee the above should

Please return ALL of this form as soon as possible to IOP Publishing Ltd, Temple Circus, Temple Way, BRISTOL BS1 6HG, UK (Journal fax: +44 (0) 117 9200684).