

FORM TX For a Literary Work UNITED STATES COPYRIGHT OFFICE	(
REC TX 4~900~822	
EFFECTIVE DATE OF HEOLOGICAL	_
Month Dec Day 8 year	8

							-	monn		Day O	Year ()
		DO NOT WOME ABOVE THIS I	ME IEVOII	NEED M	NOE COACE 1100	4.0004.047.0	~~	THAT A TO			
<b>I</b>		DO NOT WRITE ABOVE THIS L	145.17.100	NEED MC	one space, use	A SEPARATE	CON	ITINUATIO	NSHEET		
		1998 IEEE/AIAA 17th	Diaita1	Azzion	ias Systoms	Conferen	C A				•
			ellevue,		(98CH36267		CC				
		PREVIOUS OR ALTERNATIVE	<del></del>	WA	(3001130207	<del></del>					
2		L KEALOO2 OK VETEKIANITA	S III LEED 4								
		PUBLICATION AS A CONTRI collective work in which the contribut	BUTION If the tion appeared.	is work wa Title o	s published as a cont of Collective Work V	ribution to a perio	odical	, serial, or coli	ection, giv	e informa	ation about the
		If published in a periodical or serial g	ive: Volume Y		Number ▼		Issu	e Date 🗡		On Pa	ges ¥
		NAME OF AUTHOR Y	***************************************				DA	TES OF BIF			
	a	The Institute of	Electrica	al and	Electronic	s Enginee	rs,	Inc.	16	ar Died	• .
East		Was this contribution to the work	AUTHOR	OITAN	NALITY OR DON	AICC'E	WA	S THIS AU	THOR'S	CONTI	RIBUTION TO
		"work made for hire"?	OR izer	ry 1 of ▶	·			E WORK <b>◆</b> nymous?		O No	If the answer to either
		, DNo	- 1	iled in	IISA			donymous?			a Studente.
NOTE		NATURE OF AUTHORSHIP BE	riefly descripe n	sture of mu	iterful created by this	author in which o	nyqo	••			•
MOIE	•	•				·		Collec			
Under the law, the "author" of a "work made	L	NAME OF AUTHOR Y			;			TES OF BIR r Born ♥		DEATI r Died '	
'or hire" is generally the	L		A TEST CORK	NATO	VALETY OF DOL		¥47.4	CTUIC AT	·		INITION
amployer, not he employee		Was this contribution to the work a "work made for hire"?	Name of Country		NALITY OR DOM	uau		S THIS AU E WORK	Inoks	CONTR	UBUTION TO If the enswer to either
see Instruc-		□ Yes	OR Citizen					nymous?	☐ Yes	O No	of these questions is "Yes," see detailed
ions). For any sart of this		□ No	( Domici					donymous?		□ №	instructions.
vork that was made for hire" sheck "Yes" in		NATURE OF AUTHORSHIP BO	ielly describe ru	iture of ma	terial created by this	author in which o	opyri	ght is claimed	L.♥		
he space wovided, give		NAME OF AUTHOR Y			•		DAT	ES OF BIR	TH AND	DEATI	H .
he employer or other	^						Year	r Born 🔻	Yea	r Died '	▼
erson for	C		ATECTORS	1147701	MALETY OF DOL	WOULE	14/4	C TOUC ATT	TUOPS	CONTTR	UBUTION TO
rhom the work ras prepared)		Was this contribution to the work a "work made for hire"?	Name of Country		NALITY OR DOM	IICIE		WORK	INOKS	CONTE	If the answer to either
is "Author" of hal part, and		. □Yes	OR Citizen				Anor	nymous?	<b>□</b> Yes	□ No	of these questions is "Yes," see detailed
pace for dates		N₀	Oomici					donymous?	☐ Yes	□ N <sub>0</sub>	Instructions.
d birth and leath blank,		NATURE OF AUTHORSHIP Br	iefly describe na	iture of mai	terial created by this	author in which co	opyri	ght is claimed	. ▼		
		YEAR IN WHICH CREATION C	FTHIS _	DATE	AND NATION C	FIRST PUBL	ICA:	TION OF T	HIS PAF	TICUL	AR WORK
<b>~</b>	a		s information st be given	Complete		londi.⊫ <u> </u>	$\mathcal{L}\mathcal{I}$	Z Day	<u>31</u>	Year 🏲	1448
	<u> </u>	Year in a			n published			USA		·	< Nation
周		COPYRIGHT CLAIMANT(S) Na	me and address	must be gi	ven even if the claim	ant is the same as		APPLICATION	N RECEI	VED	
		the author given in space 2. ▼				_ •	۳.	ONE DEPO:	ST BECE	VED	
		The Institute of Ele	ectrical	and E	lectronics	Engineers	E S		on neoc	110	
ee Instructions place completing		J Park Avenue New York, NY 10016-9	5997				RITE	TWO DEPO	SITS REC	EIVED	
as space.		TRANSFER If the claimant(s) named	here in space (	is (are) dill	ferent from the autho	r(s) named in	ĮŽų Žų	OFC O			
		The Institute of Ele 3 Park Avenue New York, NY 10016-5 TRANSFER If the claimant(s) named space 2 give a brief statement of how to	he claimant(s) of	btained ow	nership of the copyri	ght. 🔻	ŠĘ.	REMITTANO			DATE
							١٩			V	WGoA - Ex. 1013



	CHECKED BY SOMA	FORM
	CORRESPONDENCE	FOF
	Ŭ Yes (	COPYRI
		OFFIC
	DO HOY WORK AT A COLOR OF THE C	ONLY
	DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.	
PREVIO	US REGISTRATION Has registration for this work or for an antisy registration of all the state of	-
_	*** The state of t	F
b. 🖸 This	is the first published edition of a work previously registered in unpublished form.  Is the first application submitted by this author as copyright claimant.	Eg
c. 🔘 This	is a changed version of the work, as shown by space 6 on this application.	E.
if your an	Notes to Wan Water Branda But a state of the	
	Year of Registration V	
PERIVA	TIVE WORK OR COMPILATION Complete both space 6a and 6b for a derivative work; complete only 6b for a compilation.	
. Preexist	ing Material Identify any preexisting work or works that this work is based on or incorporates. \(\neg \)	- Carrier
. Materia	Added to This Work Give a brief general statement of the mount of the	
	Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. V	e instructio
	bet	ore comple space.
•		
	-trace deleted	122
	—space deleted—	1
EPROD	UCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS A signature on this form at space 10 and a check in one here in space 8 constitutes a non-exclusive grant of permission to the Library of Congress to permy due and distributes a non-exclusive grant of permission to the Library of Congress to permy due and distribute to the library of Congress to the library	
ипсисирре	a and under the conditions and limitations annually at the state of the blind and abstract the conditions and limitations and abstract the conditions and abstract the conditions and abstract the conditions and abstract the conditions are also as a second traction of the conditions and abstract the conditions are also as a second traction of the conditions are also as a second traction of the conditions are also as a second traction of the conditions are also as a second traction of the conditions are also as a second traction of the conditions are also as a second traction of the conditions are also as a second traction of the conditions are also as a second traction of the condition of the con	F
plication	d and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space 1 of this in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work; or (3) both.	
	aXXConies and Phonometants	6
	CLI Phonorecards Only Se	e instructio
MIST	CICOUNT If the registration fee is to be charged to a Deposit Account established in the Control of the Control	
- he In	Stitute of Floatmical and Floatmick	
	stitute of Electrical and Electronics Engineers, Aic.	<b>E</b>
ORRESI	ONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/ZIP ¥	-
	William J. Hagen	
		le sure to
	Arra Code and Tolothous Market 1 1 ALALAWAY 9 NJ U00 JJ-1331	ive your zysime pho
RTIFIC	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	umber
	ATION* L, the undersigned, hereby certify that I am the	AR
	Check only one > Check	
he work i	dentified in this application and that the statements made	
ne in this	application are correct to the had of my broaded as	•
	Name of author or other copyright claimant, or owner of exclusive right(s) ▲  nted name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.	
·		
=	Handwritten einnetword 2 - Hagen date 3- Dec - 98	
حر	Handwritten signature (X) ▼	
	William () Kagen D	
L		enconcentral and a second
MFI- TE TO	Name Y	
- 1U	Attn: William I Hagen Complete all necessary spaces	
	Attn: William J. Hagen Complete all necessary spaces	
	Attn: William J. Hagen  The Institute of Electrical and Electronics Engineers  Number/Street/Apartment Number Y  *Complete all necessary spaces *Sign your application in space to  SEND ALVER-HIMENS  INTHE SAME PACKAGE:	Transman
	Attn: William J. Hagen  The Institute of Electrical and Electronics Engineers  Number/Street/Apartment Number V  445 Hoes Lane  *Complete all necessary spaces *Sign your application in space 10  *SENDALVE ELEMENTS IN THE SAME PACKAGE:  1. Application form 2. Norrefundable \$20 filing fee	pyright ON withoutly to a sign system
be led in	Attn: William J. Hagen  The Institute of Electrical and Electronics Engineers  Number/Street/Apartment Number v  445 Hoes Lane  City/State/Pay  Attn: William J. Hagen  Sign your application in space to  SENDAUGELEMENTS  INTHESAME PACKAGE:  1. Application form 2. Nonretundable \$20 filing feet in check or money order payable to Register of Copyrights  The Copyrights	at S-year interest
be ed in low	Attn: William J. Hagen  The Institute of Electrical and Electronics Engineers  Number/Street/Apartment Number v  445 Hoes Lane  Cay/State/ZIP v  Piscataway NI 08855-1331  Attn: William J. Hagen  *Complete all necessary spaces  *Sipn your application in space to  *SEND AULGE HENTS  IN THE SAME PACKAGE:  1. Application form 2. Nonrefundable \$20 filing fee in check or money order payable to Repister of Copyrights 3. Deposit material  MAILTO:  **MAILTO:  **Complete all necessary spaces  *Sign your application in space to  **Sign your application in space to the specific of the space to t	at S-year interest of anothers, the mest affire due in 19
be ed in low	Attn: William J. Hagen  The Institute of Electrical and Electronics Engineers  Number/Street/Apartment Number v  445 Hoes Lane  Caty/State/Zip v  Piscataway, NJ 08855-1331  Attn: William J. Hagen  *Complete all necessary spaces  *Sign your application in space 10  *SEND ALV-SIB-HISTIS*  INTERIAL PACKAGE:  1. Application form 2. Nonreturndable \$20 filing fee in check or money order payable to Register of Copyrights 3. Deposit material  *HAILTO:  *Register of Copyrights  *Register of Copyrights  *Complete all necessary spaces  *Sign your application in space 10  *SEND ALV-SIB-HISTIS*  *INTERIAL PACKAGE:  1. Application form 2. Nonreturndable \$20 filing fee in check or money order payable to Register of Copyrights  *INTERIAL PACKAGE:  *INT	attomy to a second of the seco
be ed in low elope	Attn: William J. Hagen  The Institute of Electrical and Electronics Engineers  Number/Street/Apartment Number v  445 Hoes Lane  City/State/Zip v  Piscataway, NJ 08855-1331  The Complete all necessary spaces Sign your application in space 10  SEND ALVER EMENS INTERNATION  The Complete all necessary spaces Sign your application in space 10  SEND ALVER EMENS INTERNATION  The Complete all necessary spaces Sign your application in space 10  SEND ALVER EMENS INTERNATION  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in space 10  The Complete all necessary spaces Sign your application in the Complete all necessary spaces Sign your application in the Compl	al Spearini al Spearini ed anchan; nosumor Pr ne neut adju due in 19 contact 1 d Office al to to determ the schedu
tificate be led in dow elope S.C. § 506 te applicate say 1993-	Attn: William J. Hagen The Institute of Electrical and Electronics Engineers  Number/Street/Apartment Number v  445 Hoes Lane  City/State/Zip v  Piscataway, NJ 08855-1331  Piscataway, NJ 08855-1331  etc. Any person who knowingly makes a tatse representation of a material tact in the application for copyright registration provided for by section 409, or in any written statement filed in shall be fined not more than \$2.500.	al Spearini al Spearini ed anchan; nosumor Pr ne neut adju due in 19 contact 1 d Office al to to determ the schedu
be led in dow elope	Attn: William J. Hagen The Institute of Electrical and Electronics Engineers  Number/Street/Apartment Number v  445 Hoes Lane  City/State/Zip v  Piscataway, NJ 08855-1331  Piscataway, NJ 08855-1331  etc. Any person who knowingly makes a tatse representation of a material tact in the application for copyright registration provided for by section 409, or in any written statement filed in shall be fined not more than \$2.500.	ustromy us.  at 5-pear fet ed acchance, resumer Pr er enest adju- duce in 13 oontact 1 for Office of to declere to eschedument connectio

