

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4237134

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
QI ZHOU	01/07/2017
XIAOLI MA	12/16/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GEORGIA TECH RESEARCH CORPORATION
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<b>City:</b>	ATLANTA
<b>State/Country:</b>	GEORGIA
<b>Postal Code:</b>	30332-0415
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15030034
<b>Application Number:</b>	61909429
<b>PCT Number:</b>	US2014061094
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<b>ATTORNEY DOCKET NUMBER:</b>	GTRC6192/6193
<b>NAME OF SUBMITTER:</b>	RYAN A. SCHNEIDER
<b>SIGNATURE:</b>	/Ryan A. Schneider, Reg. #45083/
<b>DATE SIGNED:</b>	01/23/2017
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

WHEREAS, We, **Qi Zhou**, and **Xiaoli Ma** (collectively referred to as “Assignors”), have invented certain improvements in **AN IMPROVED LATTICE-REDUCTION-AIDED K-BEST ALGORITHM FOR LOW COMPLEXITY AND HIGH PERFORMANCE COMMUNICATIONS**, for which U.S. Provisional Application No. 61/892,011 was filed October 17, 2013, U.S. Provisional Application No. 61/909,429 was filed November 27, 2013, International Application No. PCT/US2014/061094 was filed October 17, 2014, U.S. National Stage Application No. 15/030,034 was filed April 15, 2016, and related applications may be filed (all collectively “Applications”), and whereas

**GEORGIA TECH RESEARCH CORPORATION**  
**505 Tenth Street, N.W.**  
**Atlanta, Georgia 30332-0415**  
**United States**

(“Assignee”) desires to purchase all of Assignors’ rights in same;

**NOW THEREFORE**, in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid by the said Assignee, the receipt and sufficiency of which are hereby acknowledged, Assignor has and by these presents does hereby sell, assign, transfer and convey unto said Assignee all of Assignors’ rights, title, and interest in and to said Application, including in and to any conventional, division, continuation, continuation-in-part, substitution, reissue, renewal, reexam, continued prosecution application (“CPA”), or request for continued examination (“RCE”) thereof, and in and to all inventions and improvements thereon (herein collectively referred to as “Related US Applications”), preparatory to obtaining Letters Patent of the United States therefore; and Assignor hereby request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said Application and Related US Applications, to Assignee, for its interest and for the sole use and benefit of Assignee and its assigns and legal representatives.

**For the same consideration**, Assignor, by these presents do sell, assign, and transfer to Assignee all of Assignors’ rights, title and interest in and to any foreign and international applications related to and/or seeking benefit of said Application and Related US Applications, and in and to all inventions and improvements thereon (herein collectively referred to as “Related Foreign Applications”), in and to any Letters Patent and similar protective rights granted on said Related Foreign Applications, and in and to the right to claim any applicable priority rights arising from or required for said Related Foreign Applications under the terms of any applicable conventions, treaties, statutes, or regulations, said Related Foreign Applications to be filed and issued in the name of Assignee or its designee, insofar as permitted by applicable law.

**For the same consideration**, Assignor agree, without charge to Assignee, but at Assignee’s expense, to sign all lawful papers, execute said Application, Related US Applications and Related Foreign Applications, make all assignments and rightful oaths, assist in prosecution of said Application, Related US Applications and Related Foreign Applications, assist in prosecution of legal proceedings, and generally do everything reasonably possible to aid Assignee its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

AND, for the same consideration, Assignor also hereby sell, assign and transfer unto Assignee all of Assignors' rights and claims to sue for damages and other remedies with respect to any and all past infringement of all said Application, Related US Applications, and Related Foreign Applications, including said inventions and improvements which may have occurred before the date of this Assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7 day of January, ~~2016~~ 2017

*Qi Zhou* (SEAL)  
QI ZHOU

Witnessed by: *Jian xun Liu*  
Signature  
Jianxun Liu  
Printed Name of Witness

Date: 01/07/2017

Witnessed by: *Wencen Wu*  
Signature  
Wencen Wu  
Printed Name of Witness

Date: 01/07/2017

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

\_\_\_\_\_  
(SEAL)  
QI ZHOU

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2016, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
NOTARY PUBLIC

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 16 day of December, 2016.

Xiaoli Ma (SEAL)  
XIAOLI MA

Witnessed by: Angel Greenwood Date: 12/16/16  
Signature

Angel Greenwood  
Printed Name of Witness

Witnessed by: Patricia A. Dixon Date: 12/16/2016  
Signature

Patricia A. Dixon  
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

\_\_\_\_\_  
(SEAL)  
XIAOLI MA

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2016, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
NOTARY PUBLIC

(SEAL)

My Commission Expires: