

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5358618

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SAMUEL PAUL LEEMAN-MUNK	09/21/2017
SARATENDU SETHI	09/22/2017
RAVINDER DEVARAJAN	09/21/2017
DAVID JAMES CAIRA	09/28/2017
JORDAN RILEY BENSON	09/27/2017
JAMES ALLEN COX	09/21/2017
LAWRENCE E. LEWIS	09/21/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAS INSTITUTE INC.
<b>Street Address:</b>	SAS CAMPUS DRIVE
<b>City:</b>	CARY
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	27513
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16138446
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	etitus@kilpatricktownsend.com
<b>Correspondent Name:</b>	KILPATRICK TOWNSEND & STOCKTON LLP
<b>Address Line 1:</b>	1100 PEACHTREE STREET, SUITE 2800
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30309
<b>ATTORNEY DOCKET NUMBER:</b>	094926-1093769-027030US
<b>NAME OF SUBMITTER:</b>	EMILY TITUS
<b>SIGNATURE:</b>	/Emily Titus/
<b>DATE SIGNED:</b>	02/04/2019
<b>Total Attachments: 8</b>	

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## ASSIGNMENT

WHEREAS, one or more inventions have been made by the undersigned in

### VISUALIZING CONVOLUTIONAL NEURAL NETWORKS

and are the subject of the patent application filed in the United States Patent and Trademark Office on October 4, 2017, under Application Serial No. 15/725,026, which application is identified as SAS Docket No. SAS-10010911.

WHEREAS, **SAS INSTITUTE INC.**, a **North Carolina** corporation, located and doing business at **SAS Campus Drive, Cary, North Carolina 27513**, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest in said inventions and patent rights therefor throughout the world.

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, THE UNDERSIGNED HEREBY SELLS, ASSIGNS, TRANSFERS, AND DELIVERS TO ASSIGNEE all right, title, and interest, in the United States and throughout the world, in said inventions and all patents, patent rights, patent applications, and inventor's certificates for said inventions, including without limitation said application for patent in the United States and all provisionals, divisions, continuations, continuations-in-part, and resulting patents, all right to sue for infringement or past infringement, and all patents and patent rights that may be granted for said inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary or desirable to secure for or vest in assignee, its successors or assigns, any invention right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Patent and Trademark Office is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in the patents, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in the patents.

The undersigned hereby grants SAS Institute Inc. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment has been executed below, by the undersigned:



SAMUEL PAUL LEEMAN-MUNK

9/21/2017

Date

Post Office Address: 200 2B Hampton Lee Court  
Cary, North Carolina 27513

STATE OF NORTH CAROLINA

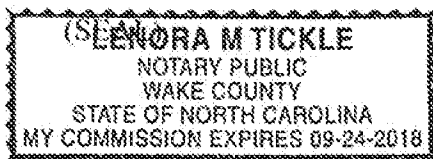
}

} ss.

COUNTY OF WAKE

}

SAMUEL PAUL LEEMAN-MUNK appeared before me this 21<sup>st</sup> day of September, 2017, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.



Notary Public: Lenora M. Tickle

My Commission Expires: September 24, 2018

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

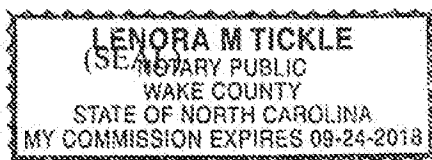
Saratendu Kumar  
SARATENDU SETHI

09/22/2017  
Date

Post Office Address: 10651 Lanier Club Drive, #201  
Raleigh, NC 27617

STATE OF NORTH CAROLINA      }  
  } ss.  
COUNTY OF WAKE                    }

SARATENDU SETHI appeared before me this 22nd day of September, 2017, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.



Lenora M. Tickle  
Notary Public: Lenora M. Tickle

My Commission Expires: September 24, 2018

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

*Ravinder*

*9/21/17*

RAVINDER DEVARAJAN

Date

Post Office Address: 111 Evans Estates Drive  
Cary, North Carolina 27513

STATE OF NORTH CAROLINA

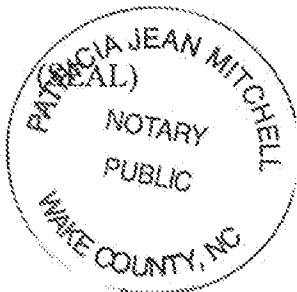
}

} ss.

COUNTY OF WAKE

}

RAVINDER DEVARAJAN appeared before me this 21<sup>st</sup> day of September, 2017, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.



*Patricia Jean Mitchell*

Notary Public: Patricia Jean Mitchell

My Commission Expires: May 12, 2022

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

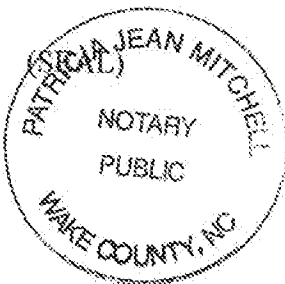
David James Cairra  
DAVID JAMES CAIRA

9/28/17  
Date

Post Office Address: 138 Lake Ellen Drive  
Chapel Hill, North Carolina 27514

STATE OF NORTH CAROLINA        }  
  } ss.  
COUNTY OF WAKE                 }

DAVID JAMES CAIRA appeared before me this 28<sup>th</sup> day of September, 2017, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.



Patricia Jean Mitchell  
Notary Public: Patricia Jean Mitchell

My Commission Expires: May 12, 2022

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

Jordan Riley Benson  
JORDAN RILEY BENSON

09-27-2017  
Date

Post Office Address: 1619 Cartledge Creek Road  
Ellerbe, North Carolina 28338

STATE OF NORTH CAROLINA

COUNTY OF WAKE

}  
} ss.  
}

JORDAN RILEY BENSON appeared before me this 27<sup>th</sup> day of September, 2017, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

(SEAL)



Susan D'Amico  
Notary Public: Susan D'Amico

My Commission Expires: March 23, 2019



IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

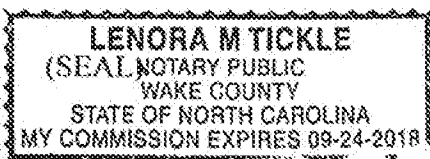
*James Allen Cox*  
JAMES ALLEN COX

9-21-2017  
Date

Post Office Address: 207 Battery Point Place  
Cary, North Carolina 27513

STATE OF NORTH CAROLINA        }  
  } ss.  
COUNTY OF WAKE                        }

JAMES ALLEN COX appeared before me this 21<sup>st</sup> day of September, 2017, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.



*Lenora M Tickle*  
Notary Public: Lenora M. Tickle

My Commission Expires: September 24, 2018

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

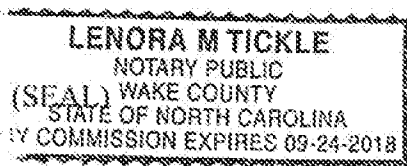
  
\_\_\_\_\_  
LAWRENCE E. LEWIS

9/21/2017  
Date

Post Office Address: 1016 Heydon Court  
Raleigh, North Carolina 276143

STATE OF NORTH CAROLINA        }  
  } ss.  
COUNTY OF WAKE                }

LAWRENCE E. LEWIS appeared before me this 21st day of September, 2017, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.



  
\_\_\_\_\_  
Notary Public: Lenora M. Tickle

My Commission Expires: September 24, 2018