

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| | |
| Name | Execution Date |
| YAN LIU | 11/30/2017 |
| ZHENGPING CHE | 11/30/2017 |
| SANJAY PURUSHOTHAM | 11/30/2017 |
| RECEIVING PARTY DATA | |
| Name: | UNIVERSITY OF SOUTHERN CALIFORNIA |
| Street Address: | USC STEVENS INSTITUTE FOR INNOVATION |
| Internal Address: | 1150 SOUTH OLIVE STREET, SUITE 2300 |
| City: | LOS ANGELES |
| State/Country: | CALIFORNIA |
| Postal Code: | 90015 |
| PROPERTY NUMBERS Total: 1 | |
| | |
| Property Type | Number |
| Application Number: | 15829768 |
| CORRESPONDENCE DATA | |
| Fax Number: | (714)427-7799 |
| <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> | |
| Phone: | 714-427-7000 |
| Email: | ipocdocket@swlaw.com |
| Correspondent Name: | SNELL & WILMER LLP (OC) |
| Address Line 1: | 600 ANTON BOULEVARD |
| Address Line 2: | SUITE 1400 |
| Address Line 4: | COSTA MESA, CALIFORNIA 92626 |
| ATTORNEY DOCKET NUMBER: | 71523-01500 |
| NAME OF SUBMITTER: | KETAN S. VAKIL |
| SIGNATURE: | /Ketan S. Vakil/ |
| DATE SIGNED: | 12/01/2017 |
| Total Attachments: 4 | |
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**IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE**

**COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN
APPLICATION USING AN APPLICATION DATA SHEET**

Inventor(s): Yan Liu
Zhengping Che
Sanjay Purushotham

Docket No.: 71523-01500

Serial No.:

Filing Date:

Title: **INTERPRETABLE DEEP LEARNING FRAMEWORK FOR
MINING AND PREDICTIVE MODELING OF HEALTH CARE
DATA**

Pursuant to 35 U.S.C. § 115(e), Applicant(s) herewith submit for recordation a combined declaration and assignment.

Declaration

As the below named inventor, I/we hereby declare that:

The captioned application was made or authorized to be made by me/us.

I/we believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I/we hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than (5) years, or both.

I/we acknowledge that a person may not execute an oath or declaration for an application unless that person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to the person to be material to patentability as defined in 37 CFR 1.56.

Assignment

WHEREAS, the undersigned inventors of the addresses indicated below (“ASSIGNOR”) has invented subject matter disclosed and/or claimed in the captioned patent application;

AND WHEREAS, University of Southern California, an entity organized and existing under and by virtue of the laws of California, having a place of business and mailing address at USC Stevens Institute for Innovation, 1150 South Olive Street, Suite 2300, Los Angeles, CA 90015, hereinafter, “ASSIGNEE”, is desirous of obtaining an interest or memorializing its interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which

are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, any and all of ASSIGNOR'S rights, title, and interest to the subject matter and inventions, as described in the aforesaid application, including patent, copyright and any other intellectual property rights, any provisional, non-provisional, continuation, continuation in part, divisional, reissue, reexamination, foreign, PCT or other patent application or like document, or any other application which claims priority to said application, including the rights to sue for all past and future causes of action related to said inventions and subject matter, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests all countries to issue said patents to ASSIGNEE, including all renewals, extensions, and reissue and reexamination certificates for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives;

AND HEREBY AGREES, without further remuneration, to transfer to ASSIGNEE, its successors, assigns and legal representatives a like interest in and to any improvements, related new matter, and derivative works, and applications based thereon, growing out of or relating to the inventions or subject matter, and to provide all reasonable assistance and execute any papers, if accurate, desired by ASSIGNEE, its successors, assigns and legal representatives, to preserve, acquire and/or perfect ASSIGNEE'S full rights, title and interest in and to the invention(s) and subject matter and any improvements and to file any of the aforementioned applications, or to further memorialize ASSIGNEE'S prior agreement to do so; ASSIGNOR authorizes ASSIGNEE and its appointed patent counsel to insert on this document any further identification that may be necessary or desirable by any patent office.

EXECUTED as of the date(s) written below by DECLARANT/ASSIGNOR:

Full name of inventor: Yan Liu

Inventor's signature: *Yan Liu* Date: 11/30/2017

Residence: Los Angeles CA/USA
City State/Country

Post Office Address: 3740 McClintock Avenue, EEB 500, Los Angeles, CA 90089 USA

Full name of inventor: Zhengping Che

Inventor's signature: Zhengping Che Date: 11/30/2017

Residence: Los Angeles CA/USA
City State/Country

Post Office Address: 3740 McClintock Avenue, EEB 500, Los Angeles, CA 90089 USA

Full name of inventor: Sanjay Purushotham

Inventor's signature: P. Sanjay Date: 11/30/2017

Residence: Los Angeles CA/USA
City State/Country

Post Office Address: 3740 McClintock Avenue, EEB 500, Los Angeles, CA 90089 USA