508394016 02/19/2024

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jan P. Allebach	08/12/2019
Shaoyuan Xu	08/12/2019
Yang Cheng	09/16/2019
Xiaoyu Xiang	08/18/2019

RECEIVING PARTY DATA

Company Name:	Purdue Research Foundation	
Street Address:	1801 Newman Road	
City:	West Lafayette	
State/Country:	INDIANA	
Postal Code:	47906	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17434527

CORRESPONDENCE DATA

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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.

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Email: jere.polmatier@quarles.com

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NAME OF SUBMITTER:	Jere Polmatier
SIGNATURE:	Jere Polmatier
DATE SIGNED:	02/19/2024

Total Attachments: 8

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PATENT 508394016 REEL: 066489 FRAME: 0343



PATENT REEL: 066489 FRAME: 0344

ASSIGNMENT

WHEREAS, WE,

Name

Jan P Allebach

Shaoyuan Xu

Yang Cheng

Xiaoyu Xiang

(hereinafter "ASSIGNORs"), have made or developed a technology identified in a disclosure to

Purdue Research Foundation (PRF) and assigned:

PRF reference number: 2019-ALLE-68765

generally known as:

LANDMARK TEMPORAL SMOOTHING

which is further described in a patent application filed in the United States Patent and Trademark

Office on Jun 28, 2019 and accorded Application No. PCT/US19/39907 ("Technology"); and

WHEREAS, Purdue Research Foundation, a statutory body corporate formed and existing

under the Indiana Foundation or Holding Companies Act of 1921, having a place of business at

1801 Newman Road, West Lafayette, IN 47906 (hereinafter "ASSIGNEE"), is desirous of

accepting and assuming all such right, title, and interests of the ASSIGNOR.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby

acknowledged, the ASSIGNOR(s) do hereby sell, transfer, convey, assign and deliver unto the

ASSIGNEE, its successors, assigns and legal representatives, any and all intellectual property

rights, whether domestic or foreign related to the Technology, including but not limited to: all

portions, and works in progress with respect thereto and all inventions, works of authorship, masks

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works, technology, information, know-how, materials and tools relating thereto or to the development, support or maintenance thereof; all copyright, patent rights, trade secret rights, trademark rights, mask works rights, and all other intellectual property rights and all business, contract rights and goodwill in, incorporated or embodied in, used to develop, or related to any of the foregoing and any registrations and applications for registrations of the foregoing throughout the United States of America and the world and any and all other applications arising therefrom, including any and all divisional applications, continuation applications, and continuation-in-part applications (but only and solely to the extent such continuation-in-part applications are described in the priority application to which such continuation-in-part applications claim priority and such priority is not denied), of the Technology, and any and all patents to be issued and obtained therefor and thereon, in the United States and throughout the world, including all reissued Patents, and extensions thereof (collectively, the "Intellectual Property");

AND WE HEREBY agree to communicate to ASSIGNEE or its representative any facts known to us respecting the Technology whether or not patentable, which we may conceive, develop, make, produce or reduce to practice in whole or in part as a result of any employment, research, or activity involving or relating to the use of Purdue University resources; and agree to sign all lawful documents and make all rightful oaths and declarations relating to said Technology and Intellectual Property; authorize ASSIGNEE to insert herein the date of application, serial number, date of registration, and registration number of patents issued once known; and agree to otherwise aid ASSIGNEE as necessary and desirable to:

- 1. Obtain, enforce, and maintain any issued letters patent in the United States or throughout the world, when reasonably requested to do so by ASSIGNEE, including but not limited to executing, acknowledging, and delivering to ASSIGNEE such written documents and instruments as ASSIGNEE requests and giving testimony in support of ASSIGNEE's inventorship, as may be necessary in ASSIGNEE's opinion to obtain and maintain patents in the United States of America and throughout the world;
- 2. Secure or aid in securing and maintaining copyright protection in the Intellectual Property and assist ASSIGNEE or its nominees in filing applications to register copyright in the name of ASSIGNEE as owner in such Intellectual Property; and

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3. Execute, acknowledge, and deliver to ASSIGNEE at its expense, such written

documents and instruments and do such other acts as may be necessary in the opinion of

ASSIGNEE, to vest the entire rights, title, and interests in and to the Intellectual Property to

ASSIGNEE and to confirm the complete ownership thereof by ASSIGNEE.

AND WE HEREBY authorize ASSIGNEE to take any and all action necessary to

effectuate this Assignment, including but not limited to, the filing of the Assignment with the U.S.

Patent and Trademark Office and U.S. Copyright Office.

AND WE HEREBY authorize and request the Director of the U.S. Patent and Trademark

Office or any other proper officer or agency throughout the world to issue any and all said letters

patent to ASSIGNEE.

AND WE HEREBY warrant and covenant that we have full rights to convey the entire

right, title and interest herein assigned and that we have not executed and will not execute any

instrument or assignment in conflict herewith;

This Assignment shall be binding upon ASSIGNOR(s) and their heirs, successors, and

assigns. Should any term of this Assignment be found invalid or unenforceable, it shall not affect

the validity or enforceability of any other term of this Assignment. The laws of the State of Indiana

will govern the interpretation, validity, and effect of this Assignment, without regard to the place

of making or to the place of performance.

This Assignment is hereby made effective as of the conception date of the Technology.

[SIGNATURES ON NEXT PAGE]

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PATENT

REEL: 066489 FRAME: 0347

ACCEPTED BY ASSIGNOR:

12 Aug. 2019

Date

Jan If Allebach

Residence Address:

225 Northwestern Ave

Address

W. Lofayette Da ## 47900

City, State and Zip

Citizenship

ACCEPTED BY ASSIGNOR:	
08/12/2019 Date	Shaoyuan Xu Shaoyaan Xu
•	Residence Address:
	1995 Nevels Ln
	Address
	San Jose, CA, 95133
	City, State and Zip
	China

Citizenship

PATENT REEL: 066489 FRAME: 0349

ACCEPTED BY ASSIGNOR:	
09/16/2019	Yay Ceny
Date	Yang Cheng
	Residence Address:
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	Address
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	City, State and Zip
	China
	Citizenship

08/18/2019 Date	Xiaoyu Xiang
	Residence Address:
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	Indianapolis, IN. 4625
	City, State and Zip P-R. China

Citizenship

ACCEPTED BY ASSIGNOR:

ACCEPTED BY ASSIGNEE:

November 8, 2019

Date

By: /////alast

Printed: Bobak P. Jalaie

Title: Chief Patent Counsel and Director of IP-Legal

Office of Technology Commercialization

Purdue Research Foundation