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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NATURE OF CONVEYANCE:		NEW ASSIGNMENT		
		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ			
		Name	Execution Date	
PAUL PALLATH			11/30/2016	
YING WU			11/30/2016	
RECEIVING PARTY DA	ATA			
Name:	BUSIN	BUSINESS OBJECTS SOFTWARE LTD.		
Street Address:	1012-1	1012-1014 KINGSWOOD AVENUE		
nternal Address:	CITYW	CITYWEST BUSINESS CAMPUS		
City:	DUBLI	DUBLIN		
State/Country:	IRELA	IRELAND		
Postal Code:	24			
PROPERTY NUMBERS Total: 1 Property Type		Number		
Application Number:		16277725		
	ΔΤΑ	16277725		
Application Number:	ΟΑΤΑ	(877)769-7945		
Application Number: CORRESPONDENCE E Fax Number: Correspondence will b	e sent to			
Application Number: CORRESPONDENCE E Fax Number: Correspondence will b using a fax number, if Phone:	e sent to	(877)769-7945 o the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent (214) 747-5070		
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Application Number: CORRESPONDENCE E Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 1: Address Line 4: TTORNEY DOCKET NI AME OF SUBMITTER: IGNATURE: ATE SIGNED: otal Attachments: 2	e sent to provided	(877)769-7945 b the e-mail address first; if that is unsub- d; if that is unsuccessful, it will be sent (214) 747-5070 APSI@fr.com FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MINNESOTA 55440-102 22135-0972002 CANDICE R. ROCKETT /Candice R. Rockett/	t via US Mail.	

Attorney's Docket No.: 22135-0972001 / 160790US01

ASSIGNMENT

For valuable consideration, we, Paul Pallath and Ying Wu, hereby assign to Business Objects Software Ltd., a corporation of Ireland, having a place of business at 25/28 North Wall Quay, Dublin 1 IRELAND, and its successors, and assigns (collectively, "the ASSIGNEE") our entire right, title and interest throughout the world in the inventions and improvements in a patent document entitled

TIME SERIES ANALYSIS USING A CLUSTERING BASED SYMBOLIC REPRESENTATION.

which is found in the

U.S. patent application filed on	November 30, 20	16
XI Under Application No	15/364,681	

We authorize and request the attorneys of record or the attorney filing the application to insert into this assignment the filing date and serial number of the application when known.

This assignment includes the foregoing patent application or patent, as well as continuations and divisionals of said application, all legal equivalents in any country, and all patents issuing from such legal equivalents; all patents, utility models, and design registrations granted by any jurisdiction for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. We authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

We hereby state and agree that no assignment, sale, agreement, or encumbrance has been or will be made or entered into that would conflict with this assignment.

We further agree for ourselves and our respective heirs, legal representatives, and assigns to provide to the Assignee promptly upon its request and at its expense all pertinent facts and documents relating to any of said inventions and improvements or said patents and legal equivalents as may be known and accessible to us and to testify as to the same in any interference, litigation, or proceeding relating thereto; and we agree promptly to perform such lawful acts and to sign such further applications, assignments, statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Inventor's Signature Paul Pallath

Witnessed by:

Print Name

Signature

"NOV 2016

ASSIGNMENT - Page 1 of 2

Attorney's Docket No.: 22135-0972001 / 160790US01

Inventor's Signat	ureYing Wa
Witnessed by:	
	Signature Sound Lunand Print Name

30/11/2016 Date

ASSIGNMENT - Page 2 of 2

PATENT REEL: 048349 FRAME: 0281

RECORDED: 02/15/2019