

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JUN KYUN CHOI	12/18/2015
SEUNG HYUN JEON	12/18/2015
MAN SUN PARK	12/18/2015
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15003740
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<b>SIGNATURE:</b>	/David C. Read/
<b>DATE SIGNED:</b>	01/25/2016
<b>Total Attachments: 2</b>	
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ASSIGNMENT

Serial No: 15/003,740

Filed: January 21, 2016

Title: Bio-Inspired Algorithm Based P2P Content Caching Method for Wireless Mesh Networks and System Thereof

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, each of the undersigned agrees to assign and hereby assigns to Korea Advanced Institute of Science and Technology, 291, Daehak-ro, Yuseong-gu, Daejeon, REPUBLIC OF KOREA 34141 and its successors and assigns ("Assignee") the entire right, title, and interest in and to the inventions of such undersigned that are disclosed in the application listed above. Also assigned are (i) all rights in any and all other applications anywhere in the world that the undersigned may file and/or be named as an inventor of, solely or jointly, on said inventions, (ii) all rights in any and all patents that may be obtained on any of said applications, and (iii) all rights in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates, and/or extensions thereof. The rights assigned include without limitation, the right to bring suit, the right to claim and retain all damages and/or seek other remedies for the past, present, and future infringement of any of the foregoing, and the right of priority (including without limitation the right to claim priority benefit of or to said patent applications.) The undersigned request the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of Assignee.

Each of the undersigned authorizes the attorneys of record in the application listed above to insert in this assignment the filing date and application number of the application listed above when officially known.

Each of the undersigned states that the application listed above is or was made or authorized to be made by him or her. Each of the undersigned believes himself or herself to be the original inventor or an original joint inventor of a claimed invention in the application listed above. Each of the undersigned acknowledges that any willful false statement made by him or her in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, each of the undersigned warrants that: (i) he or she is the owner of all its rights, title and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, title and interests herein assigned.

Upon the request of Assignee and at no expense to the undersigned, each of the undersigned hereby agrees to execute any and all applications on said inventions (including without limitation applications or requests for the reissue, reexamination, or extension of the patent or for a supplementary protection certificate and any oath, declaration, or affidavit relating thereto that Assignee may deem necessary or expedient, and to cooperate to the best of the ability of the undersigned with Assignee and perform any and all affirmative acts requested by

MARSHALL, GERSTEIN & BORUN LLP, 233 S. Wacker Drive, 6300 Willis Tower, Chicago, Illinois 60606-6357

Assignee to prepare, file, prosecute, maintain, defend, enforce, and vest in Assignee the rights, title, and interests assigned herein. These acts include, without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, title and interests will be held and enjoyed by Assignee to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Date: Dec. 18, 2015

Signature: Jun Kyun Choi  
Jun Kyun Choi

Date: Dec. 18, 2015

Signature: Seung Hyun Jeon  
Seung Hyun Jeon

Date: Dec. 18, 2015

Signature: Man Sun Park  
Man Sun Park