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**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**  
**KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel) : Cooperative and fair MAC protocols for cognitive radio ad-hoc networks  
 Jumlah Penulis : 2 orang  
 Status Pengusul : penulis pertama/utama/Pendamping  
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 b. Nomor ISSN : ISSN : 1022-0038  
 c. Vol, No., Bln Thn : Vol. 23 Issue 7 Hal. 2289-2306, 1 Oktober 2017  
 d. Penerbit : Springer New York LLC  
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Reviewer 2

Dr. Wahyudi, S.T., M.T.  
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 Unit Kerja : Teknik Elektro FT UNDIP

Reviewer 1

Dr. Eng. Wahyul Amien Syafei, ST, MT  
 NIP. 197112181995121001  
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**4. Kelengkapan unsur dan kualitas terbitan:**

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Semarang,  
Reviewer 1



Dr. Eng. Wahyul Amien Syafei, ST, MT  
 NIP. 197112181995121001  
 Unit Kerja : Teknik Elektro FT UNDIP

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$0,6 \times 38 = 22,80$				<b>31</b>

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- d) Kelengkapan unsur dan kualitas terbitan:  
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Semarang,  
Reviewer 2

Dr. Wahyudi, S.T., M.T.  
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Wireless Networks  
Volume 23, Issue 7, 1 October 2017, Pages 2289-2306

## Cooperative and fair MAC protocols for cognitive radio ad-hoc networks (Article)

Sofwan, A. , AlQahtani, S.A. ✉ 👤

Department of Computer Engineering, College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia

### Abstract

View references (27)

A secondary user (SU) in multichannel cognitive radio ad hoc network (CRAHN) has a limited transmission range, which may raise a hidden multichannel sensing problem. In addition, CRAHNs can be deployed ubiquitously, and SUs from any CRAHNs could co-exist utilizing the spectrum. This situation leads to the fairness issue of spectrum resource sharing between the SUs. Both cooperative and fairness issues are important to CRAHN performance. In this paper, a cooperative and a non-cooperative multichannel (MC)-MAC protocol is proposed. In order to address the fairness issue, a fair multichannel (FMC)-MAC protocol for CRAHN is proposed, which orientates to the fairness in resource sharing. In this FMC-MAC, the SU keeps the current backoff (CB) counter when a PU appears to claim the intended channel. These proposed MAC protocols are simulated using NS2 and compared with other protocols. In addition, a mathematical model using Markov chain is constructed for FMC-MAC and the performance measures are derived. From results, the MC-MAC protocol has enhanced the network utilization and the cooperative scheme has significantly enhanced the packet delivery ratio and decreased the end-to-end delay of SUs in high traffic. The cooperative protocol enhances packet delivery ratio up to 15 % and decreases end-to-end delay down to 32 %, compared to the non-cooperative one. The FMC-MAC protocol with other two existing protocols. From the comparison results, a higher fairness has been shown by FMC-MAC CB while still maintaining a high throughput. © 2016, Springer Science+Business Media New York.

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Topic: Cognitive radio | Radio systems | radio sensor

Prominence percentile: 93.778 ⓘ

### Author keywords

Cognitive radio ad hoc network Cooperative MAC protocol Fairness Multichannel MAC

### Indexed keywords

Engineering controlled terms: Ad hoc networks Markov processes Medium access control Radio transmission Telecommunication networks

Engineering uncontrolled terms: Cognitive radio Ad-Hoc networks Cooperative MAC protocols Cooperative protocols Fairness Multi-channel MAC Multichannel cognitive radios Net work utilization Packet delivery ratio

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MC-MAC: An efficient multichannel MAC protocol for cognitive radio Ad Hoc Networks

Sofwan, A. , Al Qahtani, S.A. (2016) 2015 IEEE 82nd Vehicular Technology Conference, VTC Fall 2015 - Proceedings

Cooperative multichannel MAC protocol for cognitive radio ad hoc



Sofwan, A. , Alqahtani, S.A. (2015) 2015 IEEE Global Communications Conference, GLOBECOM 2015

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Editor  
Wireless Networks

#### COMMENTS FOR THE AUTHOR:

Reviewer #1: This paper proposes a multichannel (MC) MAC and a fair multichannel (FMC) MAC protocols for CRAHN. The topic is so old that I do not appreciate it. Besides, paper named "FMAC: A fair MAC protocol for coexisting cognitive radio networks" and paper named "Cooperative adaptive spectrum sharing in cognitive radio networks" have investigated these problems, hence I doubt the novelty of this paper. Moreover, the writing, organization and logic of this paper could be improved greatly. Some minor errors are listed as follows.

- (1) Authors should illustrate differences between this paper and reference [9].
- (2) Authors should give directly the performance measures in abstract.
- (3) Page 1, "a cooperative and non-cooperative multichannel (MC)-MAC protocol is proposed" should be "a cooperative and a non-cooperative multichannel (MC)-MAC protocol are proposed".
- (4) Page1, The sentence that "These proposed MAC protocols are simulated using NS2 and compared" is not completed.
- (5) Page 2, "A cognitive radio (CR) is considered a technology innovation..." should be "A cognitive radio (CR) is considered as a technology innovation..."

Reviewer #2: This paper focuses on the hidden multichannel sensing problem in multichannel cognitive radio ad hoc network. The authors propose two MAC protocols, namely multichannel MAC and fair multichannel MAC, for CRAHN. In general, this is a solid work. However, the importance and timeliness of the topic addressed in the paper are not good enough. The following are some major concerns.

1. The topic discussed in the paper is old, and most of the cited papers were published many years ago. In addition, better to cite works that are published on high quality conferences or journals.
2. In section 4.1, what's the definition of "nearPU"?
3. In section 4.1, the protocol requires that each SU should keep the history of traffic of all nodes, which limits the implementation of the protocol in dense network. Also, this protocol may be not compatible with widely-accepted standards such as LTE-U.
4. The overhead of the proposed protocols (especially FMC-MAC) is not studied.
5. P17. A new fairness policy for each SU is proposed in this part. Better put it in previous sections and analyze its performance in this part.

Reviewer #3: This paper describes a fair mac protocol for cognitive radio networks. The protocol exploits

coordination among secondary and primary users to prevent hidden terminal problems and achieve fairness. A mathematical model based on Markov chains is used to determine some key parameters and to estimate the performance. Simulations show the advantages of the proposed approach in comparison with previous solutions.

The paper readability could be improved. Additionally, it is not clear the problem that the paper is focusing on (fairness is just a general term) and the model requires more justification. More details in the following.

- The introduction does not describe the problem well. It should better clarify the problem and contribution of the paper.

- The system model is based on several assumptions. Some of these (e.g. 100% packet delivery, circular communication area) do not seem realistic, while others (e.g. stationary PUs) need better motivation. The authors should better motivate and justify their model to improve the value of the contribution.

- The system model section contains several details of the proposed solution. This makes the readability hard. The system model should only focus on model and assumptions, moving the contribution details in an independent section.

- The system model should also describe the traffic model assumed (e.g. constant, Poisson, real traces).

- There should be a section, or a part of it, which clearly describes the problem formulation. At the current status, the paper refers to "fairness" but it never formally defines what is the objective of the proposed MAC protocol.

Minor comments:

- The paper uses too many acronyms which worsen the readability. The authors should get rid of the useless and confusing acronyms (e.g. CRAHN, CCC, etc.). The acronym "Keeps the Current Backoff" (KCB) is an unusual way of using acronyms and should be removed.

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What if my Tex file(s) doesn't build? First, look in the PDF to see if an error message is available. If the error message suggests you are missing a sty file, then this may be the cause that the Tex submission will not build. If your submission still is not building after attempting to fix your Tex file from the suggested error message, you may want to verify the following:

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STY is the file extension for a Style sheet file. A STYle template may be used by different publishers to define what should be bold/centered/italic in the paper.

The link below to Springer's own site can be used for latex references:

<http://www.springer.com/sgw/cda/frontpage/0,5-164-2-72376-0,00.html>

We rely on the authors to create their sty files. Authors need to create their sty files to govern their own work.

There is a link below we found in Google that may assist the author in completing their submission.

<http://www.sci.usg.edu.au/staff/robertsa/LaTeX/latexintro.html>

#### TeX Web Resources

There has been a significant increase in the number of TeX submissions to journals using Editorial Manager. While we do not offer direct technical support for TeX, just as we don't offer direct technical support for Microsoft Word, we have compiled a list of TeX-related web sites for journals to use, but please do feel free to distribute this information to your authors if you deem it helpful.

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This excellent introduction to TeX contains links to a basic explanation of TeX, a more thorough overview, and FAQs. You'll also find user help, documentation, sample documents, and a list of recommended reference books.

<http://www.tug.org/begin.html>

The Comprehensive TeX Archive Network

If you know absolutely nothing about TeX and would like to learn about what TeX is and where it came from, be sure to take a look at the article entitled "What it TeX?" There is a search function for files and documentation on the site as well as links to sign up for TeX users groups and announcements lists.

<http://www.ctan.org/>

TeX Guides

An excellent resource offering a variety of TeX guides including guides for Mathematical Symbols in TeX and TeX for Word Processor Users.

<http://www.mcs.vuw.ac.nz/~david/latex/>

LaTeX Encyclopedia

An online LaTeX "encyclopedia". The site contains a table of contents with links to information on documentation, installation, typography, and a Navigator for the site.

<http://tex.loria.fr/>

## LaTeX Math Guide

The American Mathematical Society's Short Math Guide for LaTeX.

<ftp://ftp.ams.org/pub/tex/doc/amsmath/short-math-guide.pdf>

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## Fwd: WINE-D-15-00301R2 - Decision on your manuscript

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From: Dr. Salman A. AlQahtani (salmanq@KSU.EDU.SA)

To: aghus@yahoo.com

Date: Wednesday, 11 May 2016, 12:08 GMT+7

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Sent by iphone .....

Best regards, salman

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Dr. Salman Ali AlQahtani  
Computer Engineering Dept.  
King Saud University  
Riyadh, Saudi Arabia.  
<http://faculty.ksu.edu.sa/salmanq>

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Dear Dr alqahtani,

We are pleased to inform you that your manuscript, "Cooperative and Fair MAC Protocols for Cognitive Radio Ad-hoc Networks", has been accepted for publication in Wireless Networks.

You will receive an e-mail from Springer in due course with regards to the following items:

1. Offprints
2. Colour figures
3. Transfer of Copyright

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Prof. Xinbing Wang  
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