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## #10 (1570616717): Patch Antenna for Underwater Wireless Communication in Seawater



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Conference and track		<a href="#">2020 3rd International Conference on Telematics and Future Generation Networks (TAFGEN) - PHY and Fundamentals</a>																																																		
Authors		<table border="1"> <thead> <tr> <th>Drag to change order</th> <th>Name</th> <th>ID</th> <th>Edit</th> <th>Flag</th> <th>Affiliation (edit for paper)</th> <th>Email</th> <th>Country</th> <th>Email</th> <th>Delete</th> </tr> </thead> <tbody> <tr> <td>⋮</td> <td><a href="#">Siti Harliza Binti Mohd Razali</a></td> <td>1721100</td> <td></td> <td></td> <td>Universiti Teknologi Malaysia &amp; Jabatan Pendidikan, Politeknik, Malaysia</td> <td><a href="mailto:sharliza.poli@gmail.com">sharliza.poli@gmail.com</a></td> <td>Malaysia</td> <td></td> <td></td> </tr> <tr> <td>⋮</td> <td><a href="#">Razali Ngah</a></td> <td>433933</td> <td></td> <td></td> <td>Universiti Teknologi Malaysia, Malaysia</td> <td><a href="mailto:razalin@fke.utm.my">razalin@fke.utm.my</a></td> <td>Malaysia</td> <td></td> <td></td> </tr> <tr> <td>⋮</td> <td><a href="#">Yoshihide Yamada</a></td> <td>1123065</td> <td></td> <td></td> <td>Universiti Teknologi Malaysia, Malaysia- Japan International Institute of Technology, Universiti Teknologi Malaysia, Malaysia</td> <td><a href="mailto:ndayamada@yahoo.co.jp">ndayamada@yahoo.co.jp</a></td> <td>Malaysia</td> <td></td> <td></td> </tr> <tr> <td>⋮</td> <td><a href="#">Kamilia Kamardin</a></td> <td>540683</td> <td></td> <td></td> <td>Universiti Teknologi Malaysia, Malaysia</td> <td><a href="mailto:kamilia@utm.my">kamilia@utm.my</a></td> <td>Malaysia</td> <td></td> <td></td> </tr> </tbody> </table>	Drag to change order	Name	ID	Edit	Flag	Affiliation (edit for paper)	Email	Country	Email	Delete	⋮	<a href="#">Siti Harliza Binti Mohd Razali</a>	1721100			Universiti Teknologi Malaysia & Jabatan Pendidikan, Politeknik, Malaysia	<a href="mailto:sharliza.poli@gmail.com">sharliza.poli@gmail.com</a>	Malaysia			⋮	<a href="#">Razali Ngah</a>	433933			Universiti Teknologi Malaysia, Malaysia	<a href="mailto:razalin@fke.utm.my">razalin@fke.utm.my</a>	Malaysia			⋮	<a href="#">Yoshihide Yamada</a>	1123065			Universiti Teknologi Malaysia, Malaysia- Japan International Institute of Technology, Universiti Teknologi Malaysia, Malaysia	<a href="mailto:ndayamada@yahoo.co.jp">ndayamada@yahoo.co.jp</a>	Malaysia			⋮	<a href="#">Kamilia Kamardin</a>	540683			Universiti Teknologi Malaysia, Malaysia	<a href="mailto:kamilia@utm.my">kamilia@utm.my</a>	Malaysia		
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Title		<i>Patch Antenna for Underwater Wireless Communication in Seawater</i>																																																		
Abstract		Underwater wireless communication in seawater is becoming more interesting and challenging in recent years. The development of antenna for underwater wireless communication in seawater at 900 MHz UHF range frequency is implemented by using patch antenna. In this paper, the antennas were designed using FEKO, an electromagnetic simulation software, and a suitable size for rectangular patch antenna for seawater application was developed to study the relevance between $\lambda_0$ with W and L in seawater. The difference between the patches in free space and seawater was the L size, which was slightly bigger, about 0.9 mm, than free space size. But the gain for patch antenna in seawater was found at -2.51 dBi, lower than patch antenna in free space, which was 5.76 dBi due to the path loss in seawater. This shows that attenuation happened, and a better antenna will be design. The one that has better gain, which is around above 2 dBi in seawater, in order to get better performance antenna in seawater environment.																																																		
Keywords		seawater antenna; UHF; device to device; antenna design method; patch antenna																																																		
Presenter(s)		<a href="#">Siti Harliza Binti Mohd Razali (bio)</a> 																																																		
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## Personal notes



You are chair for this conference. You have authored an accepted paper.

## Reviews

### 3 Reviews

#### Review 1 (Reviewer A)

Reviewer [Abdul Halim Ali](#) (A); [completed](#); assigned [Dec 10, 2019 02:19:14 UTC](#) by [Suriani Mohd Sam](#); due [Dec 13, 2019 12:59:00 HKT](#) ; last reminded [Dec 15, 2019 15:15:30 UTC](#); completed [Dec 16, 2019 08:05:45 UTC](#)

Appropriateness for Journal (Rate the paper organization, the clearness of text and figures, the completeness and accuracy of references for journal publication.)	Adequacy of literature review (Sufficient literature reviews have been done for the proposed study, Source of reference is correctly cited.)	Quality of research design (Demonstrates an extremely high level competence in selecting appropriate techniques/tools in solving problem and interpreting results. The research design and method of analysis reflected a sophisticated understanding of the research problem.)	Adequacy of data analysis (Systematically data process has been performed by ensuring data integrity, accurateness, and appropriate data analysis technique.)	Contributions to the literature (The findings of the study contribute to the body of knowledge.)	Conceptual significance (Does the finding help the reader understand better?)	Practical Significance (Explains the relevance of the study under consideration.)	Legitimacy of conclusions (Does the study in accordance with the laws of reasoning; logically inferable? How well the author (s) conclude their work?)	Clarity of presentation & Readability (Shows exceptional written communication skills with faultless grammar and spelling. Tables/diagrams/charts are appropriately labelled. An extremely independent candidate. Well organised paper structure.)	Final Reviewer Decision (Please select ONE only.)
Readable, but revision is needed in some parts. (3)	Readable, but revision is needed in some parts. (3)	Readable, but revision is needed in some parts. (3)	Readable, but revision is needed in some parts. (3)	Readable, but revision is needed in some parts. (3)	Readable, but revision is needed in some parts. (3)	Well written. (4)	Well written. (4)	Readable, but revision is needed in some parts. (3)	Accept after specified revision (2)

**Overall comments to the authors (What are the major issues addressed in the paper? Do you consider them important? Comment on the degree of novelty, creativity and technical depth in the paper. Please provide detailed comments that will be helpful to the TPC for assessing the paper, as well as feedback to the authors.)**


Primarily finding by the authors. What are the reasons of comparison study between free space and seawater propagation?

#### Review 2 (Reviewer C)

Reviewer [Sergey B. Biryuchinskiy](#) (C); [completed](#); assigned [Dec 10, 2019 02:23:41 UTC](#) by [Suriani Mohd Sam](#); due [Dec 13, 2019 12:59:00 HKT](#) ; last reminded [Jan 1, 2020 03:15:56 UTC](#); completed [Jan 1, 2020 23:53:09 UTC](#)

Appropriateness for Journal (Rate the paper organization, the clearness of text and figures, the completeness and accuracy of references for journal publication.)	Adequacy of literature review (Sufficient literature reviews have been done for the proposed study, Source of reference is correctly cited.)	Quality of research design (Demonstrates an extremely high level competence in selecting appropriate techniques/tools in solving problem and interpreting results. The research design and method of analysis reflected a sophisticated understanding of the research problem.)	Adequacy of data analysis (Systematically data process has been performed by ensuring data integrity, accurateness, and appropriate data analysis technique.)	Contributions to the literature (The findings of the study contribute to the body of knowledge.)	Conceptual significance (Does the finding help the reader understand better?)	Practical Significance (Explains the relevance of the study under consideration.)	Legitimacy of conclusions (Does the study in accordance with the laws of reasoning; logically inferable? How well the author (s) conclude their work?)	Clarity of presentation & Readability (Shows exceptional written communication skills with faultless grammar and spelling. Tables/diagrams/charts are appropriately labelled. An extremely independent candidate. Well organised paper structure.)	Final Reviewer Decision (Please select ONE only.)
Well written. (4)	Well written. (4)	Excellent. (5)	Excellent. (5)	Excellent. (5)	Excellent. (5)	Excellent. (5)	Well written. (4)	Well written. (4)	Accept (1)

### Review 3 (Reviewer D)

Reviewer [Özgür Özdemir \(D\)](#); [completed](#); assigned [Dec 30, 2019 06:16:19 UTC](#) by [Suriani Mohd Sam](#); due [Jan 5, 2020 12:59:00 HKT](#) ; last reminded [Jan 6, 2020 03:15:26 UTC](#); [completed Jan 6, 2020 08:17:50 UTC](#)     

Appropriateness for Journal (Rate the paper organization, the clearness of text and figures, the completeness and accuracy of references for journal publication.)	Adequacy of literature review (Sufficient literature reviews have been done for the proposed study, Source of reference is correctly cited.)	Quality of research design (Demonstrates an extremely high level competence in selecting appropriate techniques/tools in solving problem and interpreting results. The research design and method of analysis reflected a sophisticated understanding of the research problem.)	Adequacy of data analysis (Systematically data process has been performed by ensuring data integrity, accurateness, and appropriate data analysis technique.)	Contributions to the literature (The findings of the study contribute to the body of knowledge.)	Conceptual significance (Does the finding help the reader understand better?)	Practical Significance (Explains the relevance of the study under consideration.)	Legitimacy of conclusions (Does the study in accordance with the laws of reasoning; logically inferable? How well the author (s) conclude their work?)	Clarity of presentation & Readability (Shows exceptional written communication skills with faultless grammar and spelling. Tables/diagrams/charts are appropriately labelled. An extremely independent candidate. Well organised paper structure.)	Final Reviewer Decision (Please select ONE only.)
Readable, but revision is needed in some parts. (3)	Substantial revision work is needed. (2)	Substantial revision work is needed. (2)	Readable, but revision is needed in some parts. (3)	Readable, but revision is needed in some parts. (3)	Substantial revision work is needed. (2)	Unacceptable. (1)	Unacceptable. (1)	Readable, but revision is needed in some parts. (3)	Reject (4)

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