

**LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING**

C-20

Judul Karya Ilmiah : Automatic Oil Tank Truck Alarm System From Illegal Fuel Hoarding with Microcontroller and GSM Module Based System

Jumlah Penulis : 5 Orang

Status Pengusul : Penulis Pendamping

Identitas Prosiding :

- a. Judul Prosiding : TENCON 2015 IEEE Region 10 Conference
- b. ISBN/ISSN : 978-1-4673-6664-9
- c. Thn Terbit, Tempat Pelaks. : Macao Cotai Central China, 1 - 4 Nov 2015
- d. Penerbit/Organiser : IEEE MACAO CHINA
- e. Alamat Repository/Web : <http://www.wikicfp.com/cfp/servlet/event.showcfp?eventid=47431>
- f. Alamat Artikel : <https://ieeexplore.ieee.org/document/7373178>
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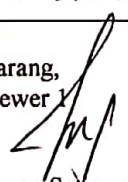
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Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional <input type="checkbox"/>	Nasional <input type="checkbox"/>	
a. Kelengkapan unsur isi prosiding (10%)	2,50		2
b. Ruang lingkup dan kedalaman pembahasan (30%)	7,50		7
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7,50		7
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	7,50		7
Total = (100%)	25,00		23
$23,75 \times 0,9/4 = 2,375$			

Catatan Penilaian Paper oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi paper: unsur isi paper telah lengkap hubungan antara judul, abstrak dan materi yang dibahas telah sesuai. Nilai = 2
- Ruang lingkup dan kedalaman pembahasan: pembahasan dilalukan relatif mendalam dan fokus pd sistem alarm truck pengangkut minyak. Pembahasan juga telah berisi analisis yg cukup. Nilai 7
- Kecukupan dan kemutakhiran data/informasi dan metodologi: referensi pada tulisan ini relatif kurang mutakhir. Referensi hanya menggunakan buku. Nilai = 7
- Kelengkapan unsur dan kualitas terbitan: terbitan prosiding memiliki kualitas relatif memadai, hanya saja msh. banyak ruang kosong pd. tulisan. Nilai 7

Semarang,
Reviewer 1


Dr. Iwan Setiawan, ST, MT
NIP. 197309262000121001
Unit Kerja : Teknik Elektro FT UNDIP

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KARYA ILMIAH : PROSIDING

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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7,50		7,25
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	7,50		7,5
Total = (100%)	25,00		24,75
$23,75 \times 0,9/9 = 2,375$			

Catatan Penilaian Paper oleh Reviewer :

- a) Kesesuaian dan kelengkapan unsur isi paper:
 review tsj. masalah logis: pendahuluan, metodologi, hasil dan pembahasan, kesimpulan. unsur! tsj. presentasi
- b) Ruang lingkup dan kedalaman pembahasan:
 pembahasan masalah cukup mendalam, hasil pengujian kurang? dan sistem secara keseluruhan ada
- c) Kecukupan dan kemutakhiran data/informasi dan metodologi:
 metodologi cukup runtun dan kemutakhiran data ada, seperti referensi yg. ada kurang dari 5 tsj.
- d) Kelengkapan unsur dan kualitas terbitan:
 kualitas terbitan bagus, masalah diterangkan pada prosiding seminar inter nasional yg. bereputasi.

Semarang,
 Reviewer 2



Dr. Wahyudi, S.T., M.T.
 NIP. 196906121994031001
 Unit Kerja : Teknik Elektro FT UNDIP

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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi prosiding (10%)	2	2,5	2,25
b. Ruang lingkup dan kedalaman pembahasan (30%)	7	7,5	7,25
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7	7,25	7,125
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	7	7,5	7,25
Total = (100%)	23	24,75	23,75

Semarang,

Reviewer 2

Dr. Wahyudi, S.T., M.T.
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Reviewer 1

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 Volume 2016-January, 5 January 2016, Article number 7373178
 35th IEEE Region 10 Conference, TENCON 2015; Holiday Inn, Sands Cotai CentralMacau;
 Macau; 1 November 2015 through 4 November 2015; Category numberCFP15TEN-ART;
 Code 118952

Automatic oil tank truck alarm system from illegal fuel hoarding with microcontroller and GSM module based system (Conference Paper)

Fadjrimiratno, M.F. ✉, Wicaksono, A., Prayogo, R.C., Sidabutar, H.A.Y., Sumardi

Department of Electrical Engineering, Diponegoro University, Semarang, Indonesia

Abstract

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Illegal fuel hoarding usually done by irresponsible drivers when they transport the oil from terminal to the gas stations. Many technologies already used by Pertamina (Indonesian National Oil Company) to prevent that case, but it has proved ineffectiveness until now. Therefore, the authors designed and created the automatic alarming system designed specially for oil tank truck. The system used microcontroller, GSM (Global System for Mobile communication) module, GPS (Global Positioning System), and ultrasonic sensors. Algorithm created based on survey done in the oil terminal and observation toward irresponsible driver habits when stealing the oil. Experiment results have proven that this system can do basic task to protect oil distribution from oil terminal to gas station, gas station to gas station, then returns to oil terminal. The application of this system is expected to be useful for reducing fuel scarcity due to illegal fuel hoarding and potentially help Pertamina and the gas station owners from financial losses with the much cheaper and effective system. © 2015 IEEE.

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Author keywords

[GPS](#) [gsm](#) [illegal fuel hoarding](#) [microcontroller](#) [ultrasonic sensor](#)

Indexed keywords

Engineering controlled terms:

[Alarm systems](#) [Controllers](#) [Crime](#) [Fuels](#) [Gases](#) [Global positioning system](#) [Losses](#)
[Microcontrollers](#) [Oil tanks](#) [Oil terminals](#) [Tank trucks](#) [Tanks \(containers\)](#) [Trucks](#)
[Ultrasonic sensors](#)

Engineering uncontrolled terms

[Effective systems](#) [Financial loss](#) [Gas stations](#) [Gps \(global positioning system\)](#)
[Gsm modules](#) [illegal fuel hoarding](#) [National Oil Company](#) [Oil distributions](#)

Engineering main heading:

[Global system for mobile communications](#)

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1 Nov 2015 (Sun)															
Time	DUNHUANG (DH) or TURFAN (TF) Room No.														
	DH-4503	DH-4504	DH-4505	DH-4506	DH-4507	DH-4403	DH-4404	DH-4405	DH-4406	DH-4407	DH-4501A	DH-4501B	DH-4401A	DH-4401B	DH-4502
14:30~17:00	On-Site Registration <i>(Location: Foyer, Level 4, Holiday Inn, Sands Cotai Central)</i>														
18:30~20:00	Welcome Reception & Campus Tour <i>(Location: N1-G008, University of Macau)</i>														
2 Nov 2015 (Mon)															
Time	DUNHUANG (DH) or TURFAN (TF) Room No.														
	DH-4503	DH-4504	DH-4505	DH-4506	DH-4507	DH-4403	DH-4404	DH-4405	DH-4406	DH-4407	DH-4501A	DH-4501B	DH-4401A	DH-4401B	DH-4502
08:00~17:00	On-Site Registration <i>(Location: Foyer, Level 4, Holiday Inn, Sands Cotai Central)</i>														
09:15~10:30	Opening Ceremony & Academic-Research-Industrial Collaboration Achievement Demonstration <i>(Location: TURFAN (TF) Main Theatre, Level 4, Holiday Inn, Sands Cotai Central)</i>														
10:30~11:20	Plenary Talk I --- "Doing Research in Knowledge Based Society: The Macau Approach", Franco Maloberti, Professor, Electronic Department, University of Pavia <i>(Location: TURFAN (TF) Main Theatre, Level 4, Holiday Inn, Sands Cotai Central)</i>														
11:20~12:05	Plenary Talk II --- "Frontiers in Networks", Vincent W. S. Chan, Professor, Electrical Engineering and Computer Science and Aeronautics of MIT <i>(Location: TURFAN (TF) Main Theatre, Level 4, Holiday Inn, Sands Cotai Central)</i>														
12:05~12:30	"Organizing IEEE R10 Flagship Events", Sri Niwas Singh, IEEE R10 Conference and Technical Seminar Coordinator <i>(Location: TURFAN (TF) Main Theatre, Level 4, Holiday Inn, Sands Cotai Central)</i>														
12:30~13:30	Lunch <i>(Location: TURFAN (TF) Buffet Lunch Hall, Level 4, Holiday Inn, Sands Cotai Central)</i>														
13:30 - 15:30	T1-Antenna & Microwave Theory and Application	T2-Biomedical Engineering	T3-VLSI, Circuit & Systems	T4-Computational Intelligence, Cloud and Big Data Management	T5-Computer Architecture & Systems	T6-Devices, Materials & Processing	T7-Power, Energy and Power Electronic	T8-Robotics, Control System & Theory	T9-Signal & Image Processing	T10-Multimedia Engineering	T11-Software & Database System	T12-Wireless Communication & Networks	T13-Photonic Technologies and Applications	T7-Power, Energy and Power Electronic	W2.1 - Workshop on Women in Engineering
	5. Passive circuit elements, filters, combiner/divider and multiplexers, etc.	6. Biomedical Instrumentation and Equipment	1. Analog and Digital Integrated Circuits and Systems	1. Applications of Big Data (Industrial Processes, Business Intelligence, Healthcare, Bioinformatics and Security)	---	Nano CMOS Devices and Si Technology	8. Power Electronics, Devices and Components	---	2. Applications of Image Processing	---	---	---	1. Lasers, amplifier and detectors	4. High Voltage Engineering, HVDC-FACTS	
	637 Invit.	1887 Invit.	1855 Invit.	987 Invit.	192 Invit.	612 Invit.	200 Invit.	429 Invit.	240 Invit.	196 Invit.	597 Invit.	132 Invit.	978 Invit.	525 Invit.	"IEEE R10 WIE Introduction", Supavadee Aramvith, IEEE R10 WIE Coordinator
	474	198	166	1884 Invit.	222 Invit.	866 Invit.	59	449	778 Invit.	840	1866 Invit.	819 Invit.	1335 Invit.	495	Keynote Talk --- "Ten Empowering Skills for Women", Karen Bartleson, Sr. Director, Corporate Programs and Initiatives, Synopsys USA
	723	1353	480	365	244 Invit.	1778 Invit.	630	796	892	914	295	341 Invit.	1231 Invit.	699	Invited Talk: "Empowerment of Women through Research", Parthasarathy Subashini, Avinashilingam University for Women
	940	1482	992	868	563 Invit.	576	841	800	405	194	1293	1300 Invit.	1383	1362	Invited Talk: "A Woman in Engineering - Increasing Macao Students' Interest in Science and Technology", Sut-Ian Ho, University of Macau
	1044	1572	1165	1589	1777 Invit.	1045	1672	174	130	398	1378	1740 Invit.	1535	402	
	1411	1835	1306	973	494	306	779	197	326	757		1473	1562	679	
	1030	1677	1718	1135		1660	472		407					328	
	861		1219		1407			461						WIE Best Paper Competition (945 ,1401, 1645)	

15:30 - 16:00	Coffee Break														
16:00 - 18:00	T1-Antenna & Microwave Theory and Application	T2-Biomedical Engineering	T3-VLSI, Circuit & Systems	T4-Computational Intelligence, Cloud and Big Data Management	T5-Computer Architecture & Systems	T6-Devices, Materials & Processing	T7-Power, Energy and Power Electronic	T8-Robotics, Control System & Theory	T9-Signal & Image Processing	T9-Signal & Image Processing	T11-Software & Database System	T12-Wireless Communication & Networks	T13-Photonic Technologies and Applications	T7-Power, Energy and Power Electronic	S4 - Women in Engineering (16:00 - 17:00) IEEE Region 10 Formation (17:00 - 18:00)
	10. Arrays as antennas and power combiners	5. Biomedical Electronics + 8. Biomedical Sensors	1. Analog and Digital Integrated Circuits and Systems	2. Big Data and Cloud Computing + 16. Others	---	Emerging Devices and Technologies	10. Power System Monitoring, Control and Protection	---	2. Applications of Image Processing	12. Pattern Recognition and Object Tracking	---	---	18. Others	12. Switching Circuits and Power Converters	---
	267	344	434	319 Invit.	498	1605 Invit.	14	850	493	205	1295 Invit.	276	185 Invit.	568	148
	520	954	553	1567	902	1188 Invit.	142	1106	643	497	354	526	1339 Invit.	1501	1367
	639	1056	847	716	322	558 Invit.	255	1245	838	1502	1702	537	1858 Invit.	82	1442
	1476	1637	1001	1134	427	1317	340	1480	993	603	1031	652	746 Invit.	152	1695
	1846	958	595	626	1470	1592	350	454	1051	209	1710	846	1539 Invit.	1265	IEEE Region 10 Formation (All are Welcome)
	1751	1093	743	886		1530	435	585	1278	1785		170	293		
		924				1564	327		1629						

3 Nov 2015 (Tue)

Time	DUNHUANG (DH) or TURFAN (TF) Room No.														
	DH-4503	DH-4504	DH-4505	DH-4506	DH-4507	DH-4403	DH-4404	DH-4405	DH-4406	DH-4407	DH-4501A	DH-4501B	DH-4401A	DH-4401B	DH-4502

08:00-17:00	On-Site Registration <i>(Location: Foyer, Level 4, Holiday Inn, Sands Cotai Central)</i>														
09:00 - 09:45	Plenary Talk III --- "Extracting information from the Smart Grid - Towards Cognitive Models", Vladimiro Miranda, Professor, President of INESC P&D Brazil <i>(Location: TURFAN (TF) Main Theatre, Level 4, Holiday Inn, Sands Cotai Central)</i>														
09:45 - 10:30	Plenary Talk IV --- "WInternet: From Net of Things to Internet of Things", Wei Zhao, Professor, Rector of University of Macau <i>(Location: TURFAN (TF) Main Theatre, Level 4, Holiday Inn, Sands Cotai Central)</i>														
10:30 - 11:00	Coffee Break														
11:00 - 12:30	Industrial Panel --- "Technopreneurship - Strategies for Win-win University-Industry Collaboration" (IEEE R10 Professional Activities) <i>(Location: TURFAN (TF) Main Theatre, Level 4, Holiday Inn, Sands Cotai Central)</i>														
12:30 - 13:30	Lunch <i>(Location: TURFAN (TF) Buffet Lunch Hall, Level 4, Holiday Inn, Sands Cotai Central)</i>														
13:30 - 15:30	Poster Session														
	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	S4	
86, 471, 516, 1552, 270, 715, 766, 823, 859, 950, 1426, 1699, 620, 662, 1078, 1150, 1373, 1449, 1516, 1548, 1597, 1658, 1755, 986, 512, 900, 1322, 1446, 1448, 88, 1002, 1840, 220, 887, 1372, 24, 25, 235, 338, 352, 373, 426, 456, 473, 688, 708, 759, 776, 788, 836, 843, 878, 919, 984, 1025, 1029, 1161, 1301, 1324, 1325, 1330, 1338, 1344, 1391, 1395, 1398, 1414, 1415, 1420, 1440, 1456, 1731, 1783, 1831, 1845, 631, 999, 1347, 157, 281, 294, 773, 786, 884, 998, 1038, 1156, 1351, 1385, 1688, 1696, 1816, 261, 299, 286, 483, 1198, 1678, 228, 410, 524, 535, 814, 877, 910, 982, 1009, 1081, 1145, 1547, 1565, 1634, 1720, 1762, 396, 481, 1620, 1625, 1063, 755, 430															
<i>(Location: TURFAN (TF) Buffet Lunch Hall, Level 4, Holiday Inn, Sands Cotai Central)</i>															
14:30 - 17:30	Forum on Cloud Security , Data Connectivity and Secrets behind World Changing Technologies Talk 1: "Big Data Security Challenges: Bridging between Cloud and Self-owned Devices", Anges Chan, Executive Director of Information Security, College of Computer and Information Science Northeastern University Talk 2: "Transform Your Business with API-led Connectivity", Manh-Kiet Yap, Principal Architect North Asia, MuleSoft USA Talk 3: "Machine Learning in Practice", Eric Chio, Google USA <i>(Location: TURFAN (TF) Main Theatre, Level 4, Holiday Inn, Sands Cotai Central)</i>														
15:30 - 15:45	Coffee Break														

15:45 - 17:45	T1-Antenna & Microwave Theory and Application	T2-Biomedical Engineering	T3-VLSI, Circuit & Systems	T4-Computational Intelligence, Cloud and Big Data Management	T5-Computer Architecture & Systems	T6-Devices, Materials & Processing	T7-Power, Energy and Power Electronic	T8-Robotics, Control System & Theory	T9-Signal & Image Processing	T9-Signal & Image Processing	T7-Power, Energy and Power Electronic	T12-Wireless Communication & Networks	T13-Photonic Technologies and Applications	T7-Power, Energy and Power Electronic	Workshop on Professional Activities: "Writing Scientific Papers and Making Presentations in English" Speaker: Xiaohong Guan, Professor, Xi'an Jiaotong University, China
	18. Others	11. Computer-aided Detection and Diagnosis	1. Analog and Digital Integrated Circuits and Systems	16. Others	---	Sensors, MEMS, and Bioelectronics	10. Power System Monitoring, Control and Protection	---	2. Applications of Image Processing	4. Audio and Electroacoustics	9. Power Quality	---	18. Others	3. Grid Impact of Large-Scale Renewable	Chair: Jianguo Huang, IEEE R10 Professional Activities Coordinator
	312	115	1104	1844 Invit.	1518	366 Invit.	437	895	1474	464	1506	946	380	247	All are Welcome
	897	466	1176	1405	1203	349 Invit.	561	1077	1498	1461	1848	952	754	253	
	1643	1241	1441	400	1360	1723	691	1197	1512	1744	335	1060	959	1037	
	745	1242	1553	1059	1540	1114	719	1304	1661	1757	1545	944	611	1000	
	964	717	1061	1587		726	1229	1857	1700	852	1663	1011		1513	
	1752	1836	1666	1210		1261	1309	1859	479	913	1521	1065		504	
	272	1808			1226	346		491	371						
19:00 - 21:30	Banquet Best Paper Awards Presentation <i>(Location: Convention and Exhibition Center, Macau Fisherman's Wharf)</i> 4 Nov 2015 (Wed)														
Time	DUNHUANG (DH) or TURFAN (TF) Room No.														
	DH-4503	DH-4504	DH-4505	DH-4506	DH-4507	DH-4403	DH-4404	DH-4405	DH-4406	DH-4407	DH-4501A	DH-4501B	DH-4401A	DH-4401B	DH-4502
08:00-09:00	On-Site Registration <i>(Location: Foyer, Level 4, Holiday Inn, Sands Cotai Central)</i>														
09:00 - 11:00	T1-Antenna & Microwave Theory and Application	T2-Biomedical Engineering	T3-VLSI, Circuit & Systems	T7-Power, Energy and Power Electronic	T7-Power, Energy and Power Electronic	T6-Devices, Materials & Processing	T7-Power, Energy and Power Electronic	T7-Power, Energy and Power Electronic	T9-Signal & Image Processing	T9-Signal & Image Processing	O1 - Others	T12-Wireless Communication & Networks	W1 - Workshop on Humanitarian Technology		IEEE R10 Young Professionals Tack
	1. Instrumentation and measurement techniques	9. Bio-Robotics + 18. Others	2. Data Converters + 6. Others	6. Micro Grids and Distributed Generation	9. Power Quality	Power Devices and Technologies	10. Power System Monitoring, Control and Protection	11. Solar, Wind, Hydro, Fuel Cells and Utility Interface Issues	2. Applications of Image Processing	13. Signal Processing Applications	---	---	---		Chair: Ranjit R Nair, IEEE R10 Young Professionals (formerly GOLD) Program Coordinator
	820	140	805	332	318	204 Invit.	1412	304	486	16	771 Invit.	1384	1066	All are Welcome	
	1368	851	937	462	575	758 Invit.	1515	361	490	1076	799	1422	1725		
	1397	1007	1610	578	693	1012 Invit.	1652	1271	698	1622	891	1109	1769		
	1633	1028	1690	619	750	718	1676	298	1054	1675	1617	1458			
		1370	1706	712	1035	638	362	374	1140	343	444	1026			
		1721	1308	731	880	364	649		389	632	1073				
		470	1600	587	936	487	1409		1669	979	1224				
11:00 - 11:30	Coffee Break														

	T7-Power, Energy and Power Electronic	T2-Biomedical Engineering	T3-VLSI, Circuit & Systems	T7-Power, Energy and Power Electronic	T7-Power, Energy and Power Electronic	T6-Devices, Materials & Processing	T7-Power, Energy and Power Electronic	S1 - Systems and Management	T9-Signal & Image Processing	T9-Signal & Image Processing	S2 - Languages, Information, and Computational Intelligence	T12-Wireless Communication & Networks	S3 - Forecast and Power Management of Renewable Sources in a Micro Grid			
11:30 - 13:30	1. Control, Communication and Monitoring of Smart Grid	9. Bio-Robotics + 18. Others	3. Power Management Ics	2. Energy Storage System	10. Power System Monitoring, Control and Protection	Memory Technologies, Reliability and Packaging	7. Motors and Drives	---	1. Adaptive Signal Processing + 9. Image Retrieval and Authentication	2. Applications of Image Processing	---	---	---			
	711	1417	363	1765 Invit.	713	615	443	221	1511	1222	1558	1569	589			
	1091	1433	668	1083	923	110	616	803	1346	1291	974	1691	590			
	1113	1615	1282	1478	931	1013	1121	906	1492	1087		1698	606			
	1601	1635	1336	1514	1365	1445	1345	989	1006	432		1434	951			
				1737	1544	1316				807			1596			
					1773	1318				1213			1631			
										962			208			
13:30 - 14:30	Lunch <i>(Location: TURFAN (TF) Buffet Lunch Hall, Level 4, Holiday Inn, Sands Cotai Central)</i>															
14:30	1. Macau Heritage Half Day Tour							2. CEM (Macao Power) Technical Visit								



2015 IEEE Region 10 Conference, 1-4 November 2015

CERTIFICATE OF ATTENDANCE

This is to certify that

Andrey Wicaksono

Has attended the conference and presented the paper

***Automatic Oil Tank Truck Alarm System from Illegal Fuel Hoarding
with Microcontroller and GSM Module Based (Paper ID 1769)***

A handwritten signature in black ink, appearing to be "T. Cheang", written over a horizontal line.

Dr. Thomas Cheang
General Chair of
TENCON 2015

A handwritten signature in black ink, appearing to be "M. C. Wong", written over a horizontal line.

Prof. Man-Chung Wong
General Chair of
TENCON 2015

