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1.	Authors: Naveed Shahzad, Usman Khalid, Atif Iqbal, Meezan-Ur-Rahman Paper Title: eFresh – A Device to Detect Food Freshness	<p>Abstract: The food we consumes provide nourishment and gives energy to our body, it gives us the ability to do daily activities and help improves our health in direct as well as indirect ways. A healthy and fresh diet is the most important way to keep ourselves fit. The food items kept at room temperature undergo rapid bacterial growth and chemical changes in food. Taking unhealthy food leads to bad health, and can cause different food borne diseases. The purpose to use biosensor and electrical sensors is to determine the freshness of food. A smart system which can detect the freshness of household food like dairy items, meat, and fruits. The identification and selection of pH sensor, Moisture sensor, and Gas sensor to develop a smart food freshness detector ensures the freshness of food and tells whether to eat it or bin it. An android application is developed to select the type of food to be checked.</p> <p>Keywords: Food Freshness; pH Sensor; Moisture Sensor; Gas Sensor; Arduino Uno.</p> <p>References:</p> <ol style="list-style-type: none"> 1. "Norovirus food poisoning", Foodborneillness.com,2018.[Online]. 2. Available:http://www.foodborneillness.com/norovirus_food_poisoning/. [Accessed: 28- Jun- 2018]. 3. "http://time.com", Time, 2018. [Online]. Available: http://time.com/3768003/351000-people-die-of-food-poisoning-globally-every-year/. [Accessed: 28- Jun- 2018]. 4. M. Omid, M. Khojastehnazhand, A. Tabatabaefar, "Estimating volume and mass of fruit by image processing technique", Volume 100, Issue 2, September 2010 5. J.W. Gardner, P.N. Bartlett, "A brief history of electronic noses ," Sens. & Actuators B 18–19 (1994) 211–220 6. US, "FOODSniffer", Myfoodsniiffer.com, 2018. [Online]. Available: http://www.myfoodsniiffer.com. [Accessed: 25- Jun- 2018]. 7. Ee Lim Tan, Wen Ni Ng, Ranyuan Shao, Brandon D. Pereles and Keat Ghee Ong," A Wireless, Passive Sensor for Quantifying Packaged Food Quality", Full Research Paper 8. "Importance of pH",2018. [Online]. Available: http://www.sperdirect.com/public/the-importance-of-ph-in-foodquality-and-production/. [Accessed: 24- Jun- 2018]. 9. M. Helmenstine, "What Is the pH of Milk?,"ThoughtCo.[Online].Available:https://www.thoughtco.com/what-is-the-ph-of-milk-603652. [Accessed: 28-Jun-2018]. 10. Review Paper: Materials and Techniques for In Vivo pH Monitoring - IEEE Journals & Magazine. (2017) 11. "Water in Meat and Poultry", Fsis.usda.gov, 2018. [Online].Available:https://www.fsis.usda.gov/wps/portal/fsis/topics/food-safety-education/get-answers/food-safety-fact-sheets/meat-preparation/water-in-meat-and-poultry/ct_index. [Accessed: 24- Jun- 2018]. 12. Dudley, R. (2004). Ethanol, fruit ripening, and the historical origins of human alcoholism in primate frugivory. Integrative and comparative biology, 44(4), 315-323. 13. Electrochemical Gas Sensor Module, C2H4 sensor, ethylene gas sensor, environment sensor-Winsen Electronics. (2018). Winsen-sensor.com 14. M. Campbell, "Is Yogurt Alkaline or Acidic?," LIVESTRONG.COM, 03-Oct-2017. [Online].Available: https://www.livestrong.com/article/483061-is-yogurt-alkaline-or-acidic/. [Accessed: 28-Jun-2018]. 15. Shiv Ram Dubey, Anand Singh Jalal, "Application of Image Processing in Fruit and Vegetable Analysis: A Review", this article is published by Journal of Intelligent Systems, De Gruyter The online version DOI: 10.1515/jisys-2014-0079 	1-4
2.	Authors: Dennis Mumo Ndolo, Diang'a Stephen, Gwaya Abednego Paper Title: A More Effective Labour Management Model for Construction Projects to Increase Productivity and Enhance Profitability	<p>Abstract: Construction industry is labour intensive compared to other sectors with a range of 25-30 %. According to Wibowo (2002), the industry comprises of three major inputs namely labour, equipment and materials. Labour is therefore unpredictable in nature compared to other inputs (materials and equipment) which are affected and determined by the current market rates. Therefore, proper labour management is required all through the construction process; this can be achieved by introduction of effective management models for use in the construction industry. The research sought to develop an affective labour management model which can be used to increase productivity. The research used questionnaires and interviews to seek information from the practicing construction personnel who expressed their views and gave their opinions concerning labour management. The study found out that most practitioners are aware of the labour management models and their contribution in increasing productivity and some admitted that they have not used the models due to their complexity. The study used inferential statistics to generate correlation, which aimed to examine and describe the association and relationship between individual factors and their relationship to labour productivity. All factors affecting productivity were grouped in to five thematic coefficients which were used to create a model. The five coefficients are Labour planning (plan), Training of workforce (train), Motivation of labour (motivate), Mechanization of labour (mech) and availability of raw materials (raw). The model developed is:</p> $\text{Productivity} = \beta_{\text{plan}} + \beta_{\text{train}} + \beta_{\text{motivate}} + \beta_{\text{mech}} + \beta_{\text{raw}} + \beta_{\text{plan}}: \beta_{\text{mech}} + \beta_0 + \epsilon_i$ <p>Logistic odds were assigned to each individual coefficient in order to give the model a simpler meaning; the odds generated were as shown below.</p> $\text{Productivity} = 3.29\text{plan} + 1.31\text{train} + 0.85\text{motivate} + 2.7\text{mech} + 0.93\text{raw} + (3.29\text{plan}: 2.7\text{mech}) + \text{constant (intercept)}$ <p>Keywords: Labour, Labour Management Model, Labour Productivity, Production Efficiency.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Abbot, C. and Carson, C. (2012), "A review of productivity analysis of the New Zealand construction industry", Australasian Journal of Construction Economics and Building, Vol. 12 No. 3, pp. 1-15 2. AbouRizk, S., Knowles, P. and Hermann, U. (2001), "Estimating labor productivity for industrial construction activities", Journal of Construction Engineering and Management, Vol. 127 No. 6, pp. 502-511. " 3. Allmon, E., Haas, C.T., Borcharding, J.D., Allmon, E. and Goodrum, P.M. (2000), "US construction labor productivity trends, 1970-1998", Journal of Construction Engineering and Management, Vol. 126 No. 2, pp. 97-104. 4. ARCOM (2013), "ARCOM abstracts", Association of Researchers in Construction Management, available at: www.arcom.ac.uk/abstracts.php (accessed 15 March 2013). 5. Barg, J., Rurparathna, R., Mendis, D., AND Hewage, K. (2014). "Motivating Workers in Construction." Journal of Construction Engineering, 	5-11

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3.	<table border="1"> <tr> <td>Authors:</td> <td>Vishwas Suman S Dsouza, Yoganand H R, Siddesh G K</td> </tr> <tr> <td>Paper Title:</td> <td>Autonomous Ship Navigation System</td> </tr> </table> <p>Abstract: The current navigation system used in ships are still manual for various operations like data acquisition and processing. An autonomous navigator must be installed on the ship when the requirement is to maneuver the ship without any assistance. Such navigators accepts the data from different sensors to gauge the locations of obstacles present in water. Our work aims at developing a prototype model of the ship that is capable of autonomously sailing and navigating its own way through the obstacles present around it. The operation of the ship involves data acquisition and decision making in real time. The operation of the ship is also simulated in MATLAB using Fuzzy Logic. The electronic system designed for the ship has excellent scalability and can be used for the larger ships as well with modifications. The final system consists of both hardware and software making the ship completely autonomous.</p> <p>Keywords: Autonomous Navigator, Data Acquisition, Fuzzy Logic, MATLAB, Prototype, Scalability.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Shashank Garg, Rohit Kumar Singh, Rajiv Kapoor, "AUTONOMOUS SHIP NAVIGATION SYSTEM," Texas Instruments India Educators' Conference, DOI 10.1109/TIEC.2013.60, pp. 300 – 305. 2. Sang-Min Lee, Kyung-Yub Kwon, and Joongseon Joh, "A Fuzzy Logic for Autonomous Navigation of Marine Vehicles Satisfying COLREG Guidelines," International Journal of Control, Automation, and Systems Vol.2, No. 2, June 2004. 3. L. P. Perera • J. P. Carvalho • C. Guedes Soares, "Fuzzy logic based decision making system for collision avoidance of ocean navigation under critical collision conditions," pp 16:84–99, 2011. 4. Qihong LU , Shaoyuan LI , GuozhengYAN, "A Positioning and Navigation Algorithm of Autonomous Mobile Robot," 2011. 5. Zeng X, Ito M, Shimizu E, "Building an automatic control system of manoeuvring ship in collision situation with genetic algorithms," Proceedings of the 2001 American control conference, Arlington, VA, USA, pp 2852–2853, 2001. 6. AlYahmedi, A. S., El-Tahir, E., Pervez, T., "Behavior based control of a robotic based navigation aid for the blind," Control & Applications Conference, July 13-July 15, 2009. 7. Cox, I. J., "Blanche — An Experiment in Guidance and Navigation of an Autonomous Robot Vehicle," IEEE Transactions on Robotics and Automation, vol. 7, no. 2, April, pp. 193-204, 1991. 8. Perera LP, Carvalho JP, Guedes Soares C, "Decision making system for the collision avoidance of marine vessel navigation based on COLREGs rules and regulations," Proceedings of 13th congress of international maritime association of Mediterranean, Istanbul, Turkey, pp 1121–1128, 2009. 9. Hasegawa K, "Advanced marine traffic automation and management system for congested waterways and coastal areas," Proceedings of international conference in ocean engineering (ICOE2009), Chennai, India, pp 1–10, 2009. 	Authors:	Vishwas Suman S Dsouza, Yoganand H R, Siddesh G K	Paper Title:	Autonomous Ship Navigation System	12-16
Authors:	Vishwas Suman S Dsouza, Yoganand H R, Siddesh G K					
Paper Title:	Autonomous Ship Navigation System					
4.	<table border="1"> <tr> <td>Authors:</td> <td>Bonface Maturi Nyabioge, Esther Ogoro, Ellis Okeri</td> </tr> <tr> <td>Paper Title:</td> <td>Construction Health and Safety Management and its Influence on Project Success in Nairobi County</td> </tr> </table> <p>Abstract: The continuous demand for improved and efficient health and safety management have put pressure to construction project managers, thereby creating a lot of management challenges that require an integrated process to be tackled. Hence, this research sought to assess the impact of health and safety management on construction projects success in Nairobi County. A survey to investigate health and safety management factors was delimited to 45 on-going commercial/ mixed urban development projects each worth more than Kshs100 million in Westlands constituency, Nairobi County. Owing to the fact that the population was reasonably small, a census was deemed suitable for this study. The survey achieved 80% rate of return of questionnaires from the construction project managers and data analysis was carried out using both descriptive and inferential (through correlation analysis) statistical methods. Results from the study were presented in form of tables and figures in a comprehensive manner. The findings indicated that, there is no well-defined site management system in the Kenyan construction industry and most sites are run through intuition and processes that involves a lot of paper work (checklists). This study therefore, recommends use of Oracle prime Projects Cloud Service, radio frequency identification device (RFID) technology, drones and Autodesk Navisworks software in construction health and safety management.</p> <p>Keywords: Construction Health and Safety Management, Project Success.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Cheng & Li. (2004). Construction safety management: an exploratory study from China. Construction Innovation, Pp. 229–241. 2. Kibe, K. (2016). Assessment of health and safety management on construction sites in Kenya: a case of construction projects in Nairobi County. Nairobi: Jomo Kenyatta University of Agriculture and Technology. 3. Mugenda & Mugenda. (2003). Research Methods: Qualitative and Quantitative Approach. Nairobi, Kenya: Acts Press. 4. Muir, B. (2005). Challenges facing today's construction manager. Newark, Delaware: University of Delaware. 5. Muiruri and Mulinge. (2014). Health and safety management on construction projects sites in Kenya: A case study of construction projects in Nairobi County. FIG Congress, (p. 14). Kuala Lumpur, Malaysia. 6. Nyabioge et al. (2018). Construction site management and its influence on project implementation in Nairobi County. International Journal of Soft Computing and Engineering (IJSCE), Volume-8 Issue-2, Pp. 7-12. 7. Olunmi et al. (2014). Diversity among construction professionals: A study of their perception of construction site management practices. Akure, Nigeria: Federal University of Technology. 8. ORACLE. (2017). Oracle prime projects cloud service. Retrieved from Oracle web site: http://www.oracle.com 9. Parsons, L. (2017). How drones can help monitor health and safety on site. Retrieved from BIM plus web site: http://www.bimplus.co.uk 10. Spillane et al. (2012). Confined site construction: An empirical analysis of factors impacting health and safety management. Journal of Engineering, Design and Technology, Vol. 10 No. 3, Pp. 397-420. 11. Wong et al. (2014). An integrated 5D tool for quantification of construction process emissions and accident identification. The 31st international symposium on automation and robotics in construction and mining (p. 5). Hong Kong: Hong Kong Polytechnic University. 	Authors:	Bonface Maturi Nyabioge, Esther Ogoro, Ellis Okeri	Paper Title:	Construction Health and Safety Management and its Influence on Project Success in Nairobi County	17-19
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