

Smart India Hackathon 2018 - Hardware Edition

INVENTION DISCLOSURE

- 1. Title of Invention: SMART INDOOR NAVIGATION SYSTEM
- 2. Date: 28-04-2018
- 3. Field of Invention (e.g Chemical, Mechanical, Electrical, Biotechnology, Electronics, Medical System, Miscellaneous): **ELECTRONICS**
- 4. Name and contact details of the Inventor: M. NAVEEN NARRYANAN (TEAM LEADER)

 MOBILE No: 9688365558
- 5. Whether your invention is product/Composition/ Process/Equipment/Device/System?

 SYSTEM (APPLICATION)
- 6. Problem in the prior art, e.g prior patent, prior reported literature (Give relevant prior art and state the problem of the prior art based on patent and literature search). Prior art search may be conducted using keywords from inventive area. Conduct prior art search use public databases e.g. https://scholar.google.co.in https://search.uspto.gov/search.google.co.in https://search.uspto.gov/search?query=+&op=Search&affiliate=web-sdmg-uspto.gov http://search.uspto.gov/search?query=+&op=Search&affiliate=web-sdmg-uspto.gov https://www.tkdl.res.in/tkdl/langdefault/common/TKDLSearch.asp?GL=Eng :

Keywords Used: Wi-Fi, Transceiver, Audio Message, wi-Fi Acres Pount, MAC Address

Prior Art (Literature Closest Match): "A local optimal User Position for

- system did not take in the problems of the visually challenged.

"http://www.3.ul.le/mg.barry/(Pubs)/thesu/Heng OH_nicola-lenihan.pd/ Prior Art (Patent Closest Match): Application of Wi-Fi Based Indoon Positioning System in Handheld Directory System"

- Entitle system was very complex due to the



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implementation of kiosks and websites, database and mobile modules.

Reference: 'www. wseas. us/e-library/conference/2011/Paris/Ecc/

- 7. Statement of invention e.g state your inventive area and what solution you are providing to solve the problem not addressed in prior art:
 - Fristing me thod uses sophisticated technologies, while proposed system uses Wi-Fi to help in indoor navigation. Hence it is a much simpler system.

- 8. Describe your invention with working model/ example; (e.g if the invention is product/composition, give details of product composition in the form of range at least, Give working example (testing result of composition and properties, If it is process, give process flow chart mentioning process parameters, at least in range, give working example. If it is system operated based on algorithm, give the hardware/unit details and how the algorithm is affecting the functionality of the unit)
 - " Find the 19AC details of the nearby wi-Fi acress point.
 - · Communicate with the server and receive the corresponding audio files.
 - · Play the audio files with directions.



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- 9. Identify the novel features (Just put in bullet form, e.g....Algorithm to detect signal in the signal system components)
 - · Simple to implement, with the enisting technologies

 - · Can be updated easily and regularly.
 · Audio files can be provided in various long wages.
 - · Provides hassle free navigation, at lower cost.
- 10. State possible application of your invention:
 - Can be used in banks, hospitals, schools, universities and other indeed of evernment offices.
 Can be used in Smout wheel chairs and stretcher

 - can be used by blind people, with the help of audio messages.

I hereby declare that, to the best of my knowledge and belief, the particulars given above and the declaration made therein are true.

M. Novem Novaganon

Signature of the Corresponding Inventor