राष्ट्रदुत

#TECHNOLOGY

Most people put their router in the wrong place (and Wi-Fi speed suffers). There's an easy fix for better Wi-Fi. Try these five tips to find the best place for your router.

Home Internet



modem is usually installed

along the wall in one of the far

reaches of the house. This is

simply because that is where

the line comes into the house

and the technician's job is to

set up the connection -- not optimize your network. That

Routers send the signal out

in all directions, so if it's

left in the corner of your

home, a significant percentage

of your wireless coverage is

being sent outside your home.

It's best to move the router to

a central location to optimize

Installing a router across

quire manually running a

the house from the modem

may prove troublesome. It may

CAT5 cable under the floor or

enlisting the help of powerline

network adapters. But the im-

proved wireless coverage will

Routers tend to spread signals

downward so it's best to mount

the router as high as possible

to maximize coverage. Try

placing it higher on a book-

shelf or mounting it on the

wall in an inconspicuous

Avoid Other Electronics

Try to pick a location that's

away from other electronics

and large metal objects. The

number of walls, large ob-

near your router -- higher are

the chances that something

will interfere with the signal.

One electronic to especially

avoid is the microwave, which

emits a strong signal in the

Raise The Router

Central Location

in the middle of an important Zoom meeting and suddenly your internet connection glitch es? We can tell you how many times we have nearly lost our mind because of this exact situation. Proper in ternet connectivity is essential, especially as many of us But despite paying monthly fees to an internet service provider and having the router professionally installed we still find ourselves spending too much time watching

the computer grind. The good news is there's an easy fix to these issues that will take you just a few short

There are a lot of factors that determine internet speeds and while there's a few tricks or guidelines you can follow to improve the overall wireless speeds and coverage in your home, one of the most crucial factors is the location of your router. And note, it's not always where the technician set it up. So keep reading to learn about the best place in vour home for your router and other tricks for faster Wi-Fi

The Right Router

coverage

First things first; it all starts with choosing the right router or other equipment. Not all routers are made equal, the size and layout of your home will determine what type of structions and electronics wireless network you need. For most apartments and

smaller homes (under 1.500 square feet) a single wireless access point should suffice. That said, if your router is several years old, you may 2.4GHz band, the same wirewant to consider upgrading to a newer model with support for wireless 802.11ac and dualband support. This will give you the fastest wireless speeds

homes, it's worth considering making the upgrade to a mesh network to offer consistent coverage throughout the entire house. Once the main access point is installed if you find a far corner of your home doesn't have solid wireless coverage just add another node to that area. Problem solved! Regardless of whether you

have a single access point or a mesh network where you place the primary access point still

Placing Your Router

new home or apartment, the



That there were more ways of identifying a person besides taking fingerprints or having a photo. I had read many a novels where just the examination of the footprints revealed much about the person. The size and depth of the print gave an approximate idea of the height and built. The stride could also help in this assessment. It was deeper when standing in one place. More so when carrying a weight. The pressure point of the foot changed in its imprint when walking or sprinting. Of course, this alone did not catch the thief unless there was previous intelligence available about the person.

The Footsteps Will Tell It All



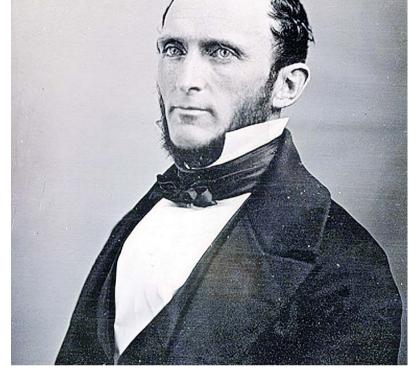
Dr Goutam Sen CTVS Surgeon Story teller

from afar. The light is dim. You cannot see his face. Still as he walks away from you the person is identified by you. Although a face is the most characteristic feature of a person there are many other aspects which are incidentally recorded in your brain which come in use in such circumstances.

About thirty years ago the wedding of a son was one of the big events that took place in our home. In those days there were no special wedding gardens or halls. The wedding was organised within the compounds of the home we lived in. All the guests who gathered from one week in advance would be expected to share whatever space there was in the house. A huge number of mattresses were piled in the rooms and they were laid out in whichever space that was available. There was one room upstairs which was for the exclusive use of the newlyweds. Anybody who passed our house would know that a wedding

So when the burglary took place we were all downstairs and the





#SNOOP

upstairs room had just one locked door. Nobody heard the perpetrators as we were all busy enjoying ourselves downstairs. They took away all the jewellery that was yet to be sorted out and placed in the

A Thorough Investigation

The police were informed. A subinspector and a constable came to investigate. A thorough inspection of the all the approaches was done. In the rear of the house some clear footprints were seen. The police officer spent quite some time examining the footprint. He got up from his squat with a satisfied look. He declared with great aplomb that he knew who had committed the theft. The footprint was quite distinctive as one of the toes was missing. The sub-inspector then said that he knew of one habitual burglar who had been recently released from Jail and had a toe missing in his right foot. He lived in the same locality. He was quickly apprehended from his home and brought to our house to match the footprints. This was in an era when neither

pictures were taken nor moulds were made as evidence. The foot orints matched. The chap was taken into custody and after some third degree interrogation he confessed to the burglary. The jewellerv had already been passed on to the pawnbroker and was

This was the first time I saw and

realised the primitive state of our forensic investigations. I also realised then that there were more ways of identifying a person besides taking fingerprints or having a photo. I had read many a novels where just the examination of the footprints revealed much about the person. The size and depth of the print gave an approximate idea of the height and built. The stride could also help in this assessment. It was deeper when standing in one place. More so when carrying a weight. The pressure point of the foot changed in its imprint when walking or sprinting. Of course this alone did not catch the thief unless there was previous intelligence available about the person. The other day's newspaper had a

small clipping where a person had been convicted on the corroborative evidence of gait analysis. This

he study of footprints and gait analysis is now refining into the science of forensic podiatry. The principles of this branch are now helping investigators in establishing the suspect's physical and biological profile.



analysis has become a part of present day crime investigation. The CCTV image of the person may not often show the face of the person but his way of standing and walking may help in identifying him. The whole body language and bear ing of each person has some outstanding aspects. Of these entire characteristics gait plays a prominent part. Forensic gait analysis or gait comparison is defined as the assessment and evaluation of gait natterns and features of the person or suspect and comparing these fea tures with the scene of crime evidence. All though much can be discerned, this method of identification can only be used as additional information. The evidence comprises of a series of foot prints found at the crime scene and the Closed Circuit Television Camera (CCTV) footage of the criminal showing how he moved from one

Foot prints can be recovered in the form of bare prints, shoe prints as well as a series of imprints. They will vary according to the task being done at that moment. These footprints can be encountered in several types of cases -- burglary, robbery, sexual assault, mugging or even kidnapping. The study of footprints and gait analysis is now refining into the science of forensic podiatry. The principles of this oranch are now helping investiga tors in establishing the suspect's physical and biological profile. They can thus be individually identified. It differs from fingerprints and DNA estimations on being based more on human observation

Gait Analysis

and subsequent interpretations This evidence gathering of gait Thomas Jackson, who was identified by a witness due to his bowed left leg and the limp associated with

Human walking is a complicated action which follows a specific pattern. This is broadly defined as a 'gait cycle'. It mainly consists of the stance phase and the swing phase. In the stance phase the footprint is examined in detail which includes the dimension and general shape. If the ridges, toe imprints and margins are visible they add to the

boots. The stride in the morning compared to the evening will show changes due to fatigue. Often a drag mark will be seen later in the day. uman walking is a complicated Sex, braces, speed and diseases of the knee and hip also contribute to changes in gait. At times many external factors like walking along with a companion (e.g. Marching). emotional state ofmind (anger/fear makes the person walk faster), lis tening to music and even attire are taken into consideration in foren

Reliable Data

User interface of the Gait Observer Measurement Instrument developers Prof E-Otten

pattern. This is broadly defined as

a 'gait cycle'. It mainly consists of

the stance phase and the swing

phase. In the stance phase the

footprint is examined in detail

general shape.

which includes the dimension and

information. At least four or five

footsteps in continuity are

required. The gait pattern helps in

assessing the approximate stature.

sex, age and bodyweight of the sus-

pect. This becomes more useful if a

video of the gait of the suspect is

available to compare with the CCTV

evidence. Although a large amount

of data is consistent and compara-

ble the inter-observer and intra-

observer are beyond permissible

limits most of the time. Computer

based analysis using algorithms

identifying a suspect by gait analy-

the length of the whole leg and the

knee-foot length are distinctive.

The dynamic measurements deter-

mine the length of the stride and

the cadence. It is interesting to note

that the gait will vary according to

footwear. The weight and shape

affects the length of the stride.

Even a tall person will take shorter

steps in a tight fitting heavy pair of

sis are worth exploring.

Some of the features that help in

The static measurements like

have a higher degree of accuracy.

The large number of variables makes the gait analysis weak evidence. The limitation of gait pat tern analysis is also because of paucity of reliable data. There is so little to compare with. Presently, research is being car

ried out in the area of automated gait recognition incorporating large and variable data sets. Despite many improvements any form of forensic evidence without standardisation remains prone to error and should be treated with

Irrespective of limitation and criticism about individuality and uniqueness, the court of law has begun accepting gait analysis as supporting/corroborative evidence. Many forensic cases have been solved and criminals have been convicted through forensic gait analysis throughout the world. So watch your steps if you do not wish to be caught in the act!

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#TRIED&TASTED

Healthy Munching

raving something sweet but also trying to follow a healthy diet? This whole wheat ragi cake with the sprinkle of date and walnuts is one of the healthiest cakes you can bake for yourself and your loved ones. Here's a must-try recipe, which is made using super healthy ingredients that will aid your fitness goals.



- For Cake Batter
- Olive oil
- Whole wheat flour
- 1 tsp Baking powder

Preparation

- Blend well until the mixture is well
- teaspoon baking soda. 5. Blend and mix well until combined
- 6. Mix by using the cut and fold method
- bread mould.
- from batter
- 10. Place the cake tray into a preheated
- oven. Bake the cake at 180 degree Celsius for 45 minutes. 11. Cake is ready to be served.





For Soaking

- Milk (hot)
- Curd
- Raqi
- ½ tsp Baking soda
- 5 dates (chopped)

■ Walnuts

1. Blend milk and soaked dates into a

- 2. Add olive oil and curd.
- 4. In a bowl, combine wheat flour, 1 teaspoon baking powder and ½
- Add walnuts and dates
- 7. Transfer the batter to a cake tray or
- 8. Pat the tray twice to remove the air
- Top with more walnuts as per taste.



#LIFE-LESSON

The Wages of Graft

Om Prakash, was an old pal of his and revealed the contents of the competing quotations to Chadha. This enabled Chadha to underquote all the competitors and bag the contract





gone mad.

his uncle, a shrewd and seasoned

veteran in the field, advised him

against it and also revealed to

Chadha then locked up his

conscience, changed his atti-

tude, learnt the art of graft and

prospered. He came to judge

evervone by mercenary stan-

dards and cynically believed

him down. He acquired the

accoutrements of affluence -- a

posh bungalow, a large car, a

But a son came after many

flourishing grape farm just out-

side the city and a rich man's

affection he was capable of. The

slightest wish of the boy was

granted and if he was even the

all his work to personally minis-

The boy joined a local con-

Chadha to swell with pride when

he began winning top honours

That dictum had not vet let

that everyone had a price

daughter as wife.

any more children.

ter to the sick child.

him some of the facts of life.

anjit Chadha had

Now, you will wonder why an affluent. through appropriate bribing, hard-bitten, healthy that the repair contracts also contractor should lose landed in his lap. his sanity. For that, we will have to recapitulate the course of his life. When Ranjit Chadha entered departmental project engineer Om Prakash, was an old pal of his profession, he was young naïve and honest. He had a diplohis and revealed the contents of

ma in Civil Engineering and some the competing quotations to money left him by his father. Chadha. This enabled Chadha to For the first year, he knocked underquote all the competitors about without securing a single and bag the contract. contract. This so disheartened him that he nearly decided to making money on this project. take up regular employment. But

name in the country.

Meanwhile, the contract work

and graft continued, and his

store of black money grew.

which were reduced to a series of

potholes in a single season;

many were the buildings he

erected which needed extensive

repairs after their first exposure

to the rains. He made sure.

Six months ago, he had land-

ed a big contract for an over-

bridge at a railway crossing. The

since he knew these things were

designed with a very high safety

was completed and formally

inaugurated by the PWD

A fortnight ago the bridge

Many were the roads he buil

had collapsed. About a dozen There was plenty of scope for vehicles were strewn on the rail way tracks below with scream The depth of foundations could ing and moaning passenger be reduced, the steel and cement trapped in them. in the reinforced concrete could But what made his heart stor cold was the sight of the over

turned school bus. With dread in his mind he ran towards the vehicle from which dazed boys were being helped out. It was the bus of his son's school

in praise of the contractor

Ranjit Chadha. The words of

praise were duly published by the local Press. The minister of

rewarded by Chadha when the

contract was bagged. After the

inauguration, traffic hummed

Few days later, while Chadha

"Chadha, the bridge has just

was having his afternoon tea.

the phone rang. It was Om

Prakash, stuttering hysterically

collapsed about five minutes

ago! Several vehicles were on it

at that time. It is a terrible mess

There are a lot of fatalities

site and came upon a ghastly

scene. Two of the pillars had

come down and the main span

Chadha rushed to the bridge

Come immediately!"

smoothly over the bridge.

His eyes searched desperately And then he saw Prakash. He was huddled near a window. His head was twisted at an odd angle. He was not moving. His eves were closed. Just then a fireman approached the boy's body and lifted it out of the bus. Chadha hastened to him and

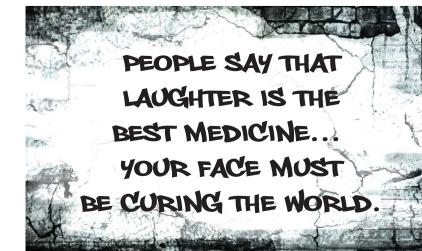
asked. "How is he?" The fireman shook his head

be pared and so on. He expected to make at least Rs. 10 lakhs on For a moment Chadha gazed despairingly at the lifeless form. the Rs. 40 lakhs he had quoted, allowing for Rs. 2 lakhs cut to the The moans, shrieks and shouts departmental engineers, overbuffeted his ears and rose to a crescendo in his mind. Then He was not worried about the suddenly everything went blank structural stability of the bridge and he began laughing.

> When Om Prakash found him sometime later. Chadha had a fixed smile on his face, a hollow look in his eyes and no answers to any questions

Ranjit Chadha had gone mad





BABY BLUES



By Rick Kirkman & Jerry Scott



ZITS



By Jerry Scott & Jim Borgman



