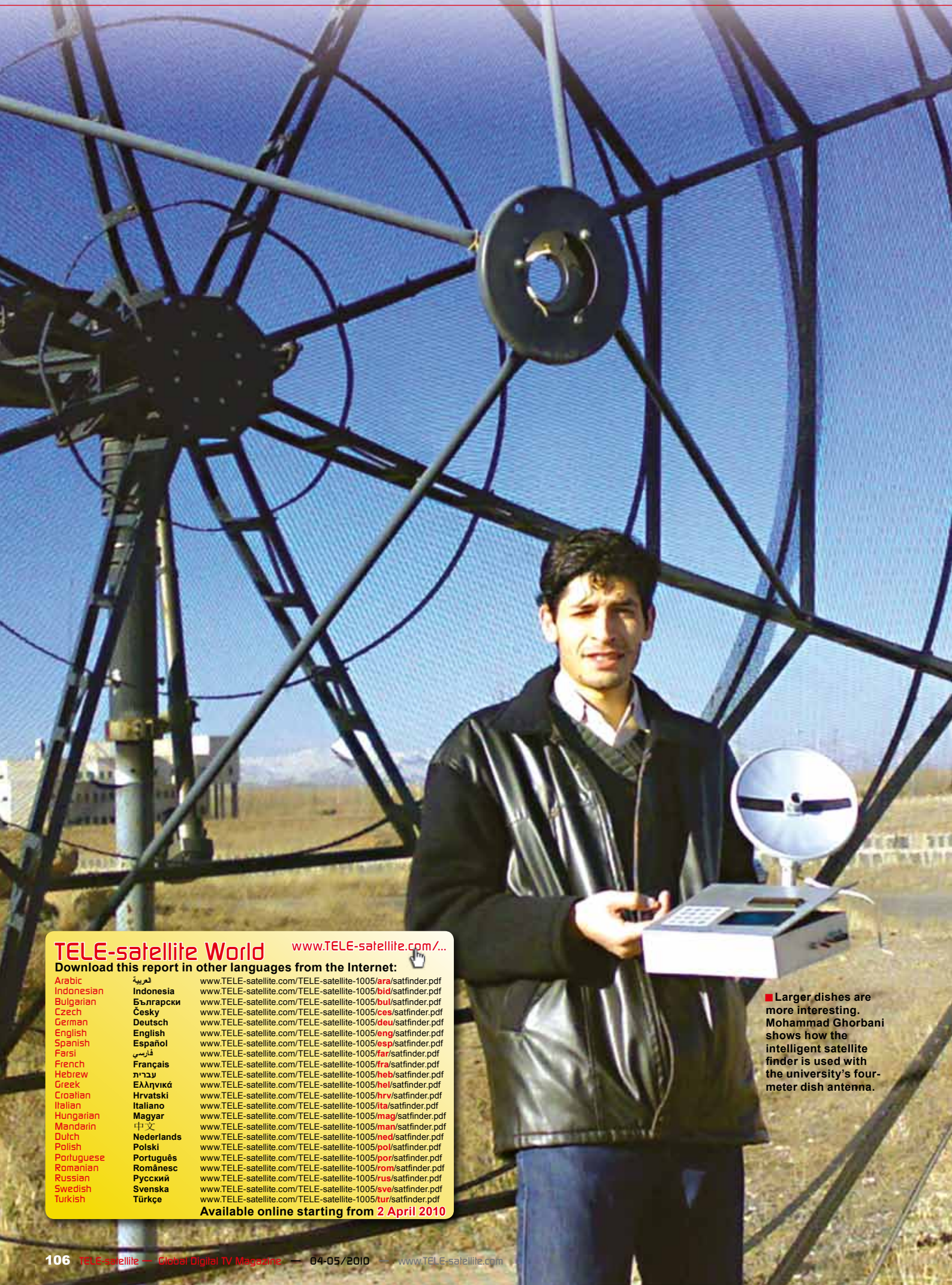

Larger dishes are more interesting. Mohammad Ghorbani shows how the intelligent satellite finder is used with the university's four-meter dish antenna.

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Intelligent Dish Alignment

Ameneh has come up with a very interesting satellite finder: she calls the discovery that she created together with her colleague Mohammad, "The Intelligent Finder of Multi Media Satellites". The unit is made from a microprocessor with a display and a movable small dish. The idea is that the small dish is used as a way to show how the larger actual dish should be aligned.

Ameneh explains to us how it works: "You put the intelligent satellite finder in the spot where the real dish antenna is supposed to go. You select the desired satellite you want to receive on the display." The ten strongest transponders of that satellite are stored in the intelligent satellite finders' microprocessor and are visible on the display.

Now it gets interesting; Ameneh explains what happens next: "Now you enter in your local position either by selecting a city on the display or by entering in your geographical coordinates." The unit then shows the strongest usable transponders and best of all the small dish on the intelligent satellite finder with the help of two servo motors starts to move to the exact position that the real dish needs to be. "The small dish acts as a guide as to how the real dish needs to be installed and aligned", adds Ameneh about the real purpose of the intelligent satellite finder.

Ameneh and her colleague Mohammad have come up with a very interesting

Ameneh Garschi is co-developer of the intelligent satellite finder. We see her here on the roof of an apartment house in the city of Zanjin northwest of Tehran.

concept. Only recently, TELE-satellite reported on an iPhone application from dishpointer: it provides a list in the iPhone display of where all the satellites can be found but this information doesn't take the installer, the one who actually has to set up the antenna, all the way to the finish line. When aligning a dish, the azimuth and elevation data is what's really important. This is where the intelligent satellite finder can really be helpful in providing alignment data for an antenna.

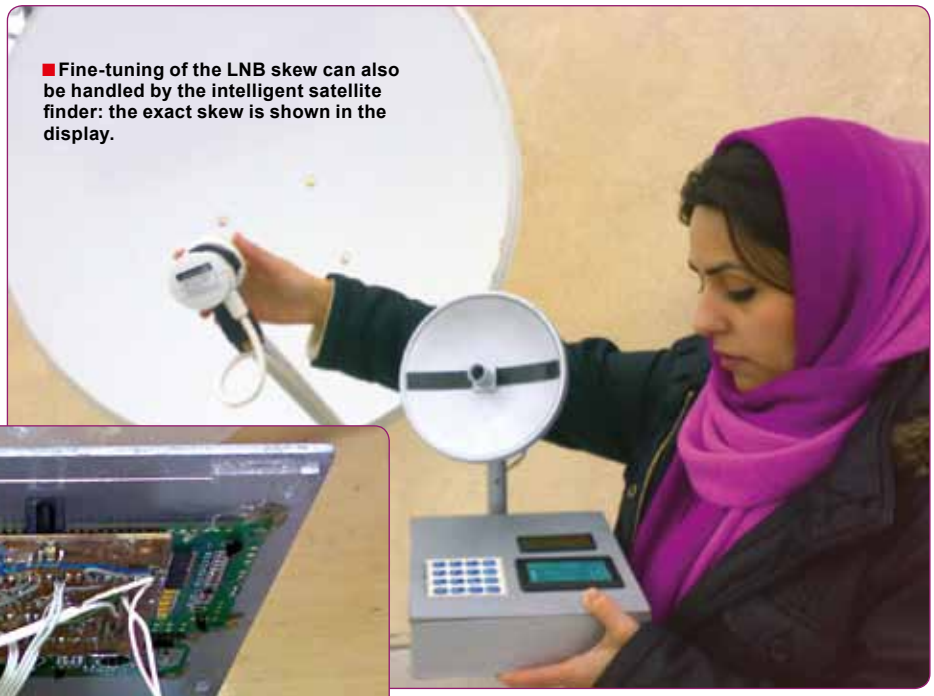
Naturally, the intelligent satellite finder needs to be properly aligned as well. Ameneh explains, "If you want to install a satellite dish, you first need to align precisely to north. You hold a compass exactly to north until the needle no longer moves. Our intelligent satellite finder uses sealed IC's so that they don't influence the compass."

An especially nice feature of the intelligent satellite finder is the display of skew data for the LNB. "Two LCD's indicate the placement of the LNB", explains Ameneh, " since the skew for every satellite is different from one location to the next; some satellites even use their own skew." Ameneh is convinced that the intelligent satellite finder solves a unique problem - it indicates the exact skew and you merely need to adjust the LNB on the real dish exactly as indicated.

Ameneh and Mohammad are students at a university in northern Iran and developed the intelligent satellite finder as part of a student project.

They are both now looking for investors to help them market their new product. Ameneh, who speaks perfect English and has taken on the communications role of the team, says, "We are really interested in producing the intelligent satellite finder here in Iran and then also exporting it. Maybe this TELE-satellite report will help us find a foreign manufacturer."

This is how the intelligent satellite finder is used: it shows the position of the satellites that are to be received and the real antenna is simply placed parallel to it.



Fine-tuning of the LNB skew can also be handled by the intelligent satellite finder: the exact skew is shown in the display.

A look inside the laboratory beta unit.


قوه قضائیه

سازمان ثبت اسناد و املاک کشور

۱۳۸۸/۰۴/۱۰

اداره کل ثبت شرکتها و مالکیت صنعتی

۶۰۰ ریال

گواهی نامه ثبت اختراع

کد (۳۰) الف (۱-۸۵) ت

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The intelligent satellite finder is already patented: here is the certificate of the Iranian "Administration of Incorporate and Industrial Possession"


Mohammad Ghorbani, co-developer of the intelligent satellite finder, seen here programming the IC.


If you want to contact Ameneh Garschi regarding the intelligent satellite finder, send her an e-mail at afsoon1111g@yahoo.com. She would be happy to hear from you!

Intelligent satellite finder beta unit built by Ameneh Garschi and Mohammad Ghorbani.

The display of the intelligent satellite finder showing the strongest transponders along with the LNB skew.