

## **The Digital Satellite Communication Channel Simulator with the Best Systems of veracity providing**

FGUE NIIR, Moscow, Russia, suggests a completely unique computer exploratory and technological test bench - system of imitation of digital data transmission through satellite and other communication channels. It contains practically all modern most effective systems of veracities increase used in actual communication networks or only published in specialized scientific issues on telecommunications.

The Simulator and the numerous noiseproof coding systems, presenting in a structure of its software, are indispensable for the specialists engaging in developing of digital data transmission networks. The Simulator allows them to evaluate a feasibility in systems, developed by them, of different correcting codes decoders. It creates for them a capability of exact designing of all devises of created new communication systems with the count of demanded levels of power efficiency, complexity, speed and reliability of implementation, delay of decision making and other yardsticks for selection of veracity increase systems. Modern coding systems became so composite and even a very difficult for understanding by the technicians engaging adjacent problems, that the acceptance of the exact solutions about these major components of communications networks became an extraordinary problem. The application of the Simulator in process of communication system design completely removes this problem.

**Analogues of our Simulator** even approximately comparable to it on quality and a representation volume of analysis outcomes, work convenience and, **- it is a main issue!** - variety of the most effective coding methods, realized in it, now **anywhere in the world simply does not exist.**

We suggest best **software and hardware "Simulator"** variants for successefull coding system developing.

The additional information on capabilities of MTD algorithms, "Simulator", its demo versions and instruction for "Simulator" using are accessible on our specialized SRI RAS web-site [www.mtdbest.iki.rssi.ru](http://www.mtdbest.iki.rssi.ru) , in our reference book published in 2004 and in our review on modern coding methods published in the head Russian magazine "Elektrosvaz" of Ministry of Communications, 2003, No. 9, pp. 34-37.

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