Theoretical Aspects of Computer Science

By -

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Theideaoforganizingasummerschoolwasoriginatedduringaconversation betweentherstandthesecondeditorofthisvolumeinthewinterof2000at IPMinTehran. ThedecisionwasformalizedwhenthethirdeditorvisitedIPM laterinthewinter.

ThemainideabehindtheSummerSchoolwastointroducetothestudents in Ir some of the highly innovative and promising research in Theoretical ComputerScience, and, atthesametime, tostartaowofideasbetweentop researchersintheeldandtheIranianscientists. Forthisreason, thetalkswere designedtobeofatutorialstyle.

Theorganizersdecidedtoconcentrateonafewimportantareasofresearch in modern Theoretical Computer Science. To attract students to this imp- ta area, they also decided to include talks on applications of methods from TheoreticalComputerScencetootherareas.

ThisvolumecontainsthewrittencontributionstotheprogramofthisS- mer School. It is intended for students and researchers who want to gain - quaintancewithcertaintopicsinTheoreticalComputerScience. Thepaperso quantumcomputation, approximationalgorithms, self-testingcorrecting, braic modeling of data, and the Regularity Lemma correspond to the for category, whileconnectionsbetweenmultipleaccesscommunicationandco natorialdesigns, graph-theoreticalmethodsincomputervision, andlow-der parity-checkcodesbelongtothelattercategory.

Eachcontributiontothisvolumewaspresentedinatwohoursession, l- vingampletimeforquestionsanddiscussions. Thetutorialswerefollowedbya

Reviews

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