1. Record Nr. UNINA9910746997303321

Autore	Tomar Ranjeet Singh
Titolo	Communication, Networks and Computing : Third International Conference, CNC 2022, Gwalior, India, December 8–10, 2022, Proceedings, Part II / / edited by Ranjeet Singh Tomar, Shekhar Verma, Brijesh Kumar Chaurasia, Vrijendra Singh, Jemal H. Abawajy, Shyam Akashe, Pao-Ann Hsiung, Ramjee Prasad
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-43145-6
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (330 pages)
Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 1894
Altri autori (Persone)	VermaShekhar ChaurasiaBrijesh Kumar SinghVrijendra AbawajyJemal H AkasheShyam HsiungPao-Ann PrasadRamjee
Disciplina	621.39 004.6
Soggetti	Computer engineering Computer networks Artificial intelligence Data structures (Computer science) Information theory Image processing - Digital techniques Computer vision Computer Engineering and Networks Artificial Intelligence Data Structures and Information Theory Computer Imaging, Vision, Pattern Recognition and Graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

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These two volumes constitute the selected and revised papers presented at the Second International Conference on Communication, Networks and Computing, CNC 2022, held in Gwalior, India, in December 2022. The 53 full papers were thoroughly reviewed and selected from the 152 submissions. They focus on the exciting new areas of wired and wireless communication systems, high-dimensional data representation and processing, networks and information security, computing techniques for efficient networks design, vehicular technology and applications and electronic circuits for communication systems that promise to make the world a better place to live in.