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Descrizione fisica	1 online resource (XIII, 177 p. 116 illus., 18 illus. in color.)
Collana	Transactions on Computational Science, , 1866-4733 ; ; 9590
Disciplina	005.8
Soggetti	Computer security Biometrics (Biology) Pattern recognition User interfaces (Computer systems) Optical data processing Application software Systems and Data Security Biometrics Pattern Recognition User Interfaces and Human Computer Interaction Image Processing and Computer Vision Information Systems Applications (incl. Internet)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Problems of Human-Computer Interaction in Cyberworlds -- Mark Projection on Real World with Precise Measurement of Angular Velocity for Helping Picking Works -- Application for Real-Time Generation of Mathematically Defined 3D Worlds -- Generating Chinese Calligraphy on Freeform Shapes -- How the Perceived Identity of a NPC Companion Influences Player Behavior -- CogniMeter: EEG-based Brain States Monitoring -- Four Adaptive Memetic Bat Algorithm Schemes for Bezier Curve Parameterization -- Au-to-Parameterized Shape Grammar for Constructing Islamic Geometric Motif-Based Structures -- Data Mining

via Association Rules for Power Ramps Detected by Clustering or Optimization.

Sommario/riassunto

The LNCS journal Transactions on Computational Science reflects recent developments in the field of Computational Science, conceiving the field not as a mere ancillary science but rather as an innovative approach supporting many other scientific disciplines. The journal focuses on original high-quality research in the realm of computational science in parallel and distributed environments, encompassing the facilitating theoretical foundations and the applications of large-scale computations and massive data processing. It addresses researchers and practitioners in areas ranging from aerospace to biochemistry, from electronics to geosciences, from mathematics to software architecture, presenting verifiable computational methods, findings, and solutions, and enabling industrial users to apply techniques of leading-edge, large-scale, high performance computational methods. This, the 28th issue of the Transactions on Computational Science journal, is comprised of extended versions of selected papers from the International Conference on Cyberworlds, CyberWorlds 2015, held in Gotland, Sweden, in October 2015. The first paper is a position paper, presenting open problems and identifying future directions within the domain. The remaining 8 papers focus on a range of topics, including virtual reality, games, haptic modeling, cybersecurity, brain wave analysis, shape parameterization, projects, and data mining. .