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Publication List

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Patents

[P1] Roberto Alessandro Bertolini, Lorenzo Binosi, and **Davide Conficconi**. *Method and System of Virtual Memory Management*. Italian Patents, Filed number 102025000029050. 2025.

Journal Publications

[J1] Federico Valentino, Beatrice Branchini, **Davide Conficconi**, Donatella Sciuto, and Marco D. Santambrogio. "QUEKUF: an FPGA Union Find Decoder for Quantum Error Correction on the Toric Code". In: *ACM Transactions on Reconfigurable Technology and Systems (TRETS)* 1.1 (2025), pp. 1–32. DOI: 10.1145/3733239.

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[J10] **Davide Conficconi**, Emanuele Del Sozzo, Filippo Carloni, Alessandro Comodi, Alberto Scolari, and Marco Domenico Santambrogio. "An Energy-Efficient Domain-Specific Architecture for Regular Expressions". In: *IEEE Transactions on Emerging Topics in Computing* (2022). DOI: 10.1109/TETC.2022.3157948.

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Book Chapters

[B1] Eleonora D'Arnese, **Davide Conficconi**, Marco Domenico Santambrogio, and Donatella Sciuto. "Reconfigurable architectures: the shift from general systems to domain specific solutions". In: *Emerging Computing: From Devices to Systems. Looking Beyond Moore and Von Neumann*. Ed. by Anupam Chattopadhyay Mohamed M. Sabry Aly. Singapore: Springer Nature Singapore, 2023, pp. 435–456. ISBN: 978-981-16-7487-7. DOI: 10.1007/978-981-16-7487-7_14.