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## Paolo Faraboschi

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Paolo Faraboschi leads research in the Systems Research Lab at HP Labs. His technical interests lie at the intersection of hardware and software and include low power servers and systems-on-a-chip, workload-optimized, highly-parallel and distributed systems, ILP and VLIW processor architectures, compilers, and embedded systems.

Faraboschi's current research focuses on next-generation data-centric systems. His work on system-level integration for low energy servers and scale-out architectures is a key element of the HP Moonshot System, HP's new class of software-defined servers built to address the energy efficiency challenges of hyperscale datacenters.

Previously, Faraboschi led HP Labs research in system-level modeling and simulation, an effort that resulted in the COTSon open-source simulation platform. He is also the founder of HP's Barcelona Research Office, which pioneered research in content-processing systems.. Before that, Faraboschi was technical lead for the Custom-Fit Processors Project at HP Labs, Cambridge (MA), building highly-optimized, software-defined CPU cores. In that role, he was the principal architect of the instruction set architecture for the Lx/ST200 family of VLIW embedded processor cores (developed with STMicroelectronics) which have been used for over a decade in a variety of audio, video, and imaging consumer products, including HP's printers and scanners.

A regular keynote speaker at conferences and industry events, Faraboschi is an IEEE Fellow for "contributions to embedded processor architecture & system-on-chip technology." An active member of the computer architecture community, he also serves regularly on IEEE program and organizational committees, was guest editor of the 2012 edition of IEEE Micro TopPicks, and is co-author (with Josh Fisher and Cliff Young) of the book, "Embedded Computing: a VLIW Approach to Architecture, Compilers and Tools." A co-holder of 24 granted patents, several other patent applications, and co-author of over 65 scientific publications, Faraboschi received his M.S. and Ph.D. (Dottorato) in electrical engineering and computer science from the University of Genoa, Italy.