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This book constitutes the refereed proceedings of the 5th IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2014, held in Costa de Caparica, Portugal, in April 2014. The 68 revised full papers were carefully reviewed and selected from numerous submissions. They cover a wide spectrum of topics ranging from collaborative enterprise networks to microelectronics. The papers are organized in the following topical sections: collaborative networks; computational systems; self-organizing manufacturing systems; monitoring and supervision systems; advances in manufacturing; human-computer interfaces; robotics and mechatronics, Petri nets; multi-energy systems; monitoring and control in energy; modelling and simulation in energy; optimization issues in energy; operation issues in energy; power conversion; telecommunications; electronics: design; electronics: RF applications; and electronics: devices.

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