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Conference on Human Error, Safety, and System Development, HESSD 2016, held in Stockholm, Sweden, in August 2016. The 11 full papers and 14 short papers presented were carefully reviewed and selected from 32 submissions. The papers cover various topics such as integration of software engineering and user-centered design; HCI models and model-driven engineering; incorporating guidelines and principles for designing usable products in the development process; usability engineering; methods for user interface design; patterns in HCI and HCSE; software architectures for user interfaces; user interfaces for special environments; representations for design in the development process; working with iterative and agile process models in HCSE; social and organizational aspects in the software development lifecycle; human-centric software development tools; user profiles and mental models; user requirements and design constraints; and user experience and software design.