Call for Extended Abstracts

MOTIVATIONS AND OBJECTIVES
The growing need to automate daily tasks, combined with new robot technologies, is driving the development of human-friendly robots, i.e., safe and dependable machines, operating in the close vicinity to humans or directly interacting with them in a wide range of domains. The technological shift from classical industrial robots, which are safely kept away from humans in cages, to robots, which are used in close collaboration with humans, is facing major challenges that need to be overcome. The objective of the workshop is to bring together researchers so to share knowledge on design, control, safety and ethical issues, concerning the introduction of robots into everyday life.

LIST OF TOPICS
- Fundamentals of human-friendly robots: mechatronic design, control, analyses (safety measurements, performance metrics, impedance estimation, etc.)
- Applications of human-friendly robots: physical interaction (medical and rehabilitation devices, prostheses and orthoses, telerobotics, etc.), cognitive interaction (robot assisted therapy, personal and entertainment robots, robot learning, etc.)
- Social and ethical issues

IMPORTANT DATES
Extended Abstract submission due: September 10, 2015
Notification of acceptance: September 20, 2015

REGISTRATION AND SUBMISSION
Information about the registration and submission are available at the website:
http://www.hri.ei.tum.de/hfr2015/home/

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