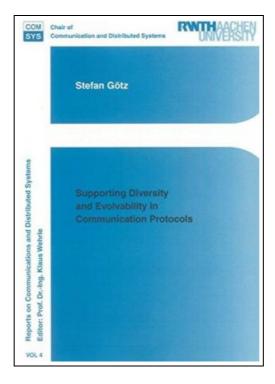
# Supporting Diversity and Evolvability in Communication Protocols



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#### SUPPORTING DIVERSITY AND EVOLVABILITY IN COMMUNICATION PROTOCOLS



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Shaker Verlag Mrz 2012, 2012. Buch. Book Condition: Neu. 210x148x mm. Neuware - Internet communication has become a commodity or a necessity in many different scenarios, be it WWW browsing or gaming at home, cloud or intranet access from a mobile, high-performance computing and networking at the data center, or monitoring and reporting with wireless sensors. Each of these settings results in vastly differing and constantly evolving requirements for the protocols that are the basis for this communication. Despite this heterogeneity, today we still design and engineer communication systems, and in particular their protocol stacks, in a fixed, static manner with little regard for adaptability and evolvability. Consequently, applications, services, and users cannot directly benefit from improvements in protocol engineering and research as this depends on re-deploying the complete communication system. One approach to address this challenge is to compose protocol stacks from components automatically and dynamically, not manually, incorporating the requirements of any given usage scenario. Research in this area has validated this approach but the existing solutions depend on dedicated protocol implementations and unnecessarily restrict the composition options. This leads again to a lack of adaptability to the evolutionary changes that protocol components are exposed to as protocols are improved. This thesis introduces an evolvable protocol platform (EPP) which overcomes these limitations. Within this platform, components from existing protocol frameworks are described with regard to their functionality, their interface properties, and their dependencies. Given this description and a set of communication requirements, they are then composed into a protocol stack. The composition process ensures that their interfaces and dependencies match and that the stack in its entirety provides the properties and services specified by the initial requirements. If several such stacks can be constructed, they are then ranked based o



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