

Introduction to the Service Science Minitrack

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Now in its twelfth year, the Service Science Minitrack at HICSS continues to bring together researchers and practitioners working in service science, the interdisciplinary study of service that combines perspectives from science, management, engineering, and design to innovate in service and service systems. Service science has had a global impact, with hundreds of universities worldwide offering courses, programs, or degrees related to service science, and with dozens of academic research institutes and groups established. This minitrack remains a platform for researchers and practitioners to share work, exchange ideas, and present results from this emerging discipline.

Service science deals with the design, development, and managerial issues concerning *service systems*, integrated, value-creating configurations of service providers, their clients, their partners, and others. The best-performing service systems are IT-enabled, customer-centered, relationship-focused, and knowledge-intensive, yet span multiple formal and informal organizations. Because of this multidisciplinary context, researchers and practitioners in management, social sciences, and computer sciences are all working to increase service innovation. These multiple perspectives can be unified using the theoretical construct of the service system, in which entities (people, businesses, government agencies, etc.) interact to co-create value via value propositions that describe dynamic re-configurations of resources. The framework of value creation in complex service systems, which requires elaborating various stakeholder perspectives and understanding the broad context of use for specific cases to enable effective value creation,

especially given advanced and autonomous technology, has emerged as the central unifying framework over many years.

The increasing contributions to economic outputs from services-related activities in major countries means that service innovation is a major part of most business models today. Even in traditionally manufacturing-driven industries, the importance of service has surpassed most other corporate competencies. From the outset, efforts in creating, composing, and delivering services call for systematic studies of managerial, technical, and social issues. Combining managerial, organizational, and technical perspectives, service science research and education aims to create service professionals with technological, business, and social-organizational abilities.

At HICSS 52 (2019), the Service Science minitrack connects rigorous disciplinary research with the emerging interdisciplinary framework of value creation in complex service systems, focusing on the use of information technology and the effects of the digital economy on service. The minitrack received submissions of research papers from a variety of disciplines and a variety of participating communities to address issues related to the increasing capabilities of technologies in service, such as autonomous technologies, and the roles of people and technologies in creating autonomous service systems, the increasingly large role played by data and information in complex service systems, and the potential for computational modeling techniques such as agent-based simulation to inform the theory and design of complex human-centered service systems in the digital context.