

Dr Datta has broad research and practical experience and interest in the role of computing and digital technologies for improving and enhancing the design quality of the built environment. Recent experience has been centred on research and practice in three inter-related streams, computer-aided architectural design, built heritage and design exploration. The particular focus of his work has been the enhancement of design quality and new methods of design and production. This work has involved improving digital design methodologies, supporting digital practice and experimental laboratory based research on parametric modeling, digital prototyping and fabrication techniques.

His recent work is using computer-aided geometric design tools to understand the principles that shaped buildings in the past and how this knowledge can transform architectural and urban spaces today. His work on Asian heritage sites, supported by the Australian Research Council, is currently unravelling the architectural links between temple building traditions along the trade routes between South and Southeast Asia.

Dr Datta is Associate Head of School (International) and a Senior Lecturer at Deakin University and leads the Digital Design Laboratory. He acts as a researcher, consultant and adviser to research, and government organisations and to architecture, engineering and construction (AEC) companies. He is a director of the architecture practice Shunya and on the board of Consulting Architects, Planners and Engineers (CAPE). Dr. Datta studied architecture at CEPT University (India), completed postgraduate studies at NUS, Singapore and received his doctorate at the University of Adelaide, Australia.