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Shape Modeling International (SMI) promotes the dissemination of new mathematical theories and novel computational techniques for modeling, simulating, and processing digital shape representations. Launched in 1997 by Prof. Tosyiasu L. Kunii, this year SMI is in its 20th anniversary, and proudly gathers a wide community of researchers, developers, practitioners, and students in academia and industry from all over the world. In the realm of Computer Graphics conferences, SMI is characterized by its particular focus on methods and techniques to model, design and analyze shapes in all their aspects. The scientific focus of SMI evolved over time, and emerging topics such as shape semantics, shape similarity and fabrication have been gradually introduced.

Starting from 2001, the SMI conference became an annual event with the venue rotating in turn among Asia, Europe and America: Italy (2001), Canada (2002), South Korea (2003), Italy (2004), USA (2005), Japan (2006), France (2007), USA (2008), China (2009), France (2010), Israel (2011), USA (2012), UK (2013), Hong Kong (2014), France (2015), Germany (2016), and USA (2017).

SMI has a tradition in seeking co-location with other conferences: in 2004 it was organized for the first time with SPM (the ACM Symposium on Solid and Physical Modeling), whereas in 2016 it was held in conjunction with both SPM and SGP (the Symposium on Geometry Processing) as part of the first International Geometry Summit (IGS). In line with this tradition, SMI 2017 will be once again colocated with SPM as part of the International Convention on Shape, Solid, Structure, & Physical Modeling (S3PM-2017) in Berkeley, California.

The individual technical papers track for SMI'17 received a total of 49 complete paper submissions, and 18 have been accepted as full

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