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Editorial

Inaugural issue welcome

We are pleased to publish our new journal, *Transactions on Machine Design* to our valued and esteemed users.

We do not currently face any dearth of literature on machine design. The literature addresses themes on wide platforms including scientific, mathematical, and computer backgrounds. They are enabling the researchers on knowledge acquisition in Machine Design.

The limited amount of time available for academic studies severely limits the number of topics that can be used as well as their treatment. Since the literature on machine design inevitably reflects a focus on specific direction, there is great need for a specialized journal that treats the universe of machine design—not merely on specific directions, but fulfils to access a very comprehensive source on successful machine designs. The purpose of this new scholarly medium is to demonstrate the foundation and to showcase approaches and solutions to specific problems that generally have wider applications. Although not much broad in scope, the topics go into sufficient depth to be useful to practicing precision design engineers and often fulfil more academic and research ambitions.

This journal aimed to publish projects that developed conceptual designs for a high-precision, high-productivity machining with mechanisms to communicate knowledge and ideas about precision to a community of machine tool researchers and engineers that often focus first on productivity concerns. This conceptual design may never become hardware and if developed would likely evolve into something quite different. However, if no aspect of this work finds its way into production, then an incredible amount of work will be wasted. Perhaps, the best way to close is by reviewing the most significant aspects as encouragement to put them into production equipment. This will include a few remaining thoughts on the conceptual design and the steps required for it to become a product. With this potential on machine design domain, we bring this volume. Initially we have planned to publish two issues per year. However hopefully next year we may increase the frequency of the journal. The four important papers presented in this issue reflect the current trends in the machine design research.

Editors