

Giving Ragas the Time of Day

Pitch Structures in North Indian Classical Music

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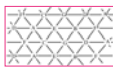
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Research Goal

Mapping the structures of parent classes (*thaats*) in NICM on the Harmonic Network used in Western Classical Music to explore relations between structures, musical content with respect to the mood conveyed, and the performance times of the parent classes.

Applications

- Compute modeling of music perception and cognition
- Computer analysis of music
- Music information retrieval

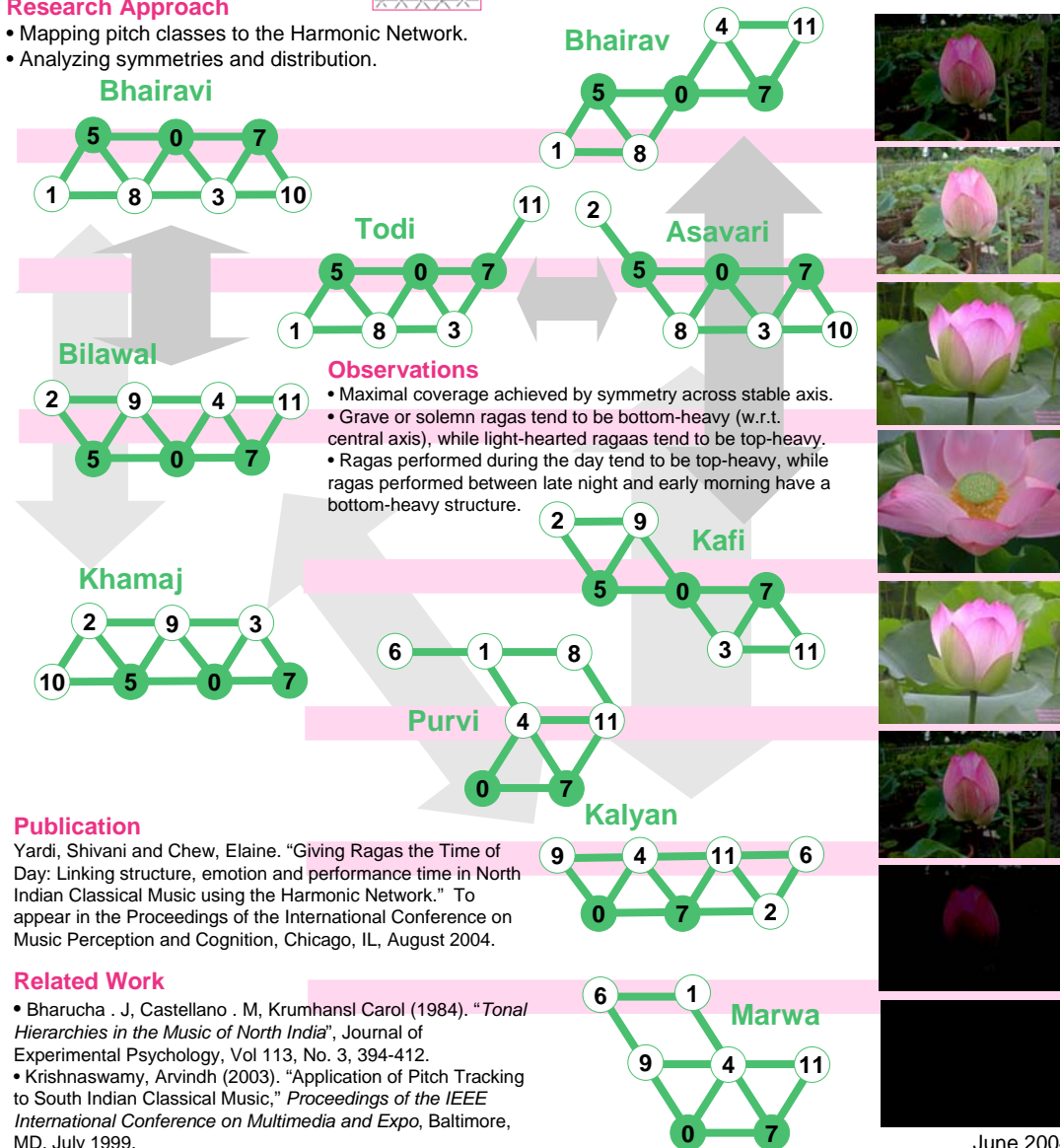


Research Approach

- Mapping pitch classes to the Harmonic Network.
- Analyzing symmetries and distribution.

Role in IMSC

This *interdisciplinary* and *cross-cultural* project expands IMSC's technology initiatives to computer modeling of music perception and improvisation in the music of South Asia.



Publication

Yardi, Shivani and Chew, Elaine. "Giving Ragas the Time of Day: Linking structure, emotion and performance time in North Indian Classical Music using the Harmonic Network." To appear in the Proceedings of the International Conference on Music Perception and Cognition, Chicago, IL, August 2004.

Related Work

- Bharucha . J, Castellano . M, Krumhansl Carol (1984). "Tonal Hierarchies in the Music of North India", Journal of Experimental Psychology, Vol 113, No. 3, 394-412.
- Krishnaswamy, Arvinth (2003). "Application of Pitch Tracking to South Indian Classical Music," *Proceedings of the IEEE International Conference on Multimedia and Expo*, Baltimore, MD, July 1999.

June 2004