All pieces performed by: Gayathri Balasubramania, Yuan Yuan Chen, Chandrika Dattathri, Alejandro Guerrero, Andrew Hayhurst, Kiran Jagadeesh, Steve Joslin, Kyle Kramer, Billy Lau, Michael Musick, Lubin Tan, Edgar Watson.

Backup performance, direction and roadie (aka instructor):
Georg Essl

Publicity: Steve Crang
Thanks to Jason Corey, Farnam Jahanian, Mary Simoni.

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The Michigan Mobile Phone Ensemble is presenting its premiere public concert featuring all new works by students in Performing Arts Technology and Electrical Engineering and Computer Science at the University of Michigan.

The ensemble was developed during a new multi-disciplinary course taught during the Fall 2009 semester. It merges engineering practices, mobile phone programming, and sound synthesis with new music performance, composition and interactive media arts. Students designed and developed their own new mobile phone instruments and composed new electronic music works exploring the creative potential of their own technical creations.

THE MICHIGAN MOBILE PHONE ENSEMBLE

The Final Class Concert
Friday, December 10, 2010
University of Michigan, Ann Arbor
E.V. Moore Building, McIntosh Theater
8:00 p.m.

Space Pong (2010) Gayathri Balasubramanian & Lubin Tan

Piece No. 42 (2019) Andrew Hayhurst & Michael Musick

Mobile Color Organ (2010) Kyle Kramer


Mr. Noisy (2010) Steve Joslin & Lubin Tan

Jam Session (2010) Cathy Chen & Edgar Watson
**Space Pong**
We use the metaphor of 'movement of a ball in space' to visually represent the piece, where performers positioned at specific regions in space represent the notes that make up the composition, and the progression of the song is denoted by performers passing the ball to other performers. Network exchange facilitates presenting the exchange to the players and the audience. The piece being performed is heavily influenced by Carnatic (South Indian Classical) music. It comprises of 4 notes: C, D, E and F, corresponding to the Carnatic notes: Sa, Ri, Ga and Ma.

**Piece No. 42**
This piece explores and contrasts two instruments we designed. One is a synthesis instrument intended to create tonal harmonies reminiscent of a chorale setting. The other is a feedback and effects instrument designed to undermine the first. The chorale instrument takes from traditional classical music a number of features: tonality, stationary performers, pre-composed music. The feedback instrument, on the other hand, is entirely foreign to the traditional music world — the performers move around improvising with feedback, a concept relatively new to music. Throughout the piece, the two instruments fight for dominance and explore the other's domain.

**Mobile Color Organ**
Since the 18th century, artists found ways to accompany music through visual media. Even since the 16th century there has been prototypes of "color organs" — instruments that project light patterns. In the 20th century alone there have been dozens of visual metaphors for music created by artists like futurists Vladimir Baranoff Rossine, Arnaldo Ginna and Bruno Corra, and many more. The Mobile Color Organ is a mobile musical instrument, where a piano keyboard plays notes and display a specific color when touched. Standing against a projected staff, the performers and their instruments embody the notes they play.

**JalGalBandi**
JugalBandi is an Indian word for a duet. JalGalBandi is a play of words to indicate a duet of water and words. This performance is based on mobile phone instruments generating water sounds to perform in a JugalBandi - without a score, using only networked messages to determine the instrumentalist(s). Be prepared to splash out the mundane with waves of new sound, a trickle familiar maybe, yet hopefully creating ripples of appreciation. Streaming in…

**Mr. Noisy**
This piece is an adaptation of a popular children's story, Mr. Noisy, by Roger Hargreaves. In the style of 1950's radio shows where a story was accompanied by live sound effects. In this version we hear the story of Mr. Noisy while the Mobile Phone Ensemble provides both the foley sound effects as well as visual representations of the sounds being played.

**Jam Session**
What do you get when you combine Christmas carols, a funky beat and 12 people with mobile phone instruments? Your guess is as good as ours, but one thing is certain: you’re going to have fun! Clap your hands, stomp your feet and sing along (if you wish) as we take all our instruments and have a good old-fashioned jam session using instruments from the future.