



Indian Textiles as wearables - An exploration of their potential in the IOT space

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Woman in Traditional Lambani Dress



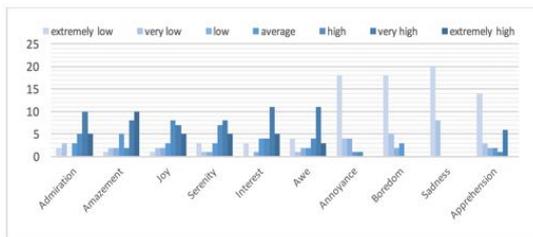
Contemporary usage of Banjara embroidery by Designer Archana Kochhar



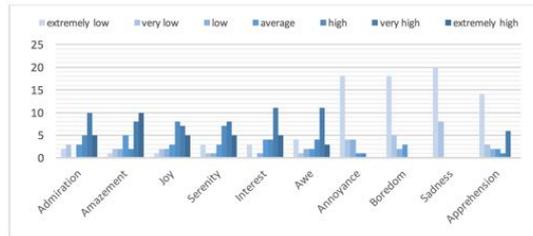
Aurora Dress by CuteCircuit

The possibilities of smart clothing merged with the traditional methods of hand-worked textiles provide designers a base to use creativity with the available technology for designing intelligent traditional textiles of the future. Conductive yarns, Conductive ink, Light Emitting Diodes, Electro-luminescent wires coupled with variety of sensors, such as temperature, pressure, touch, etc. thrust the working of textiles beyond their usual role and are making their presence felt in design research. The research intent is about exploring the potential of these transducers such as displays, sensors, LEDs, etc. as a social communicator. A traditional Lambani costume has mirrors embedded in them to ward off evil. Emotions are an important component of interactive communication, so the social Internet of things space is a significant domain of this research. The power of textiles in shaping our personalities indicates a deeper set of interrelated aspects linking the cognitive make up of an individual. To understand and find out how young users evaluate the evoked emotions, 30 female respondents between the ages of 18 and 28 years were shown textile design image boards. These image boards were composed of photographs obtained from the internet of handcrafted sarees worn for different occasions over a 50 years' timeline. Respondents were asked to identify the emotions evoked by the textiles in the photographs and rate them for their capacity to evoke emotions from a given list.

Ten Emotions were rated by the respondents on a seven point Likert scale - extremely high, very high, high, average, low, very low and extremely low. These emotions were taken from the Plutchik's wheel, 1980. Only the relevant positive and negative emotions from the wheel were considered. The positive emotions such as admiration, Amazement, Joy, Serenity, Interest, awe were high and negative emotions such as Boredom, Sadness and Apprehension were low. The entire mood is being created by a set of emotions, for instance Admiration, Amazement, Joy, Serenity, Awe and Interest together create happiness, festivity, ethnicity, celebration and optimism. Which implies that to create happiness or festivity, through textiles, emotions such as admiration, amazement, joy, serenity, awe and interest could be worked upon with the use of certain colours, combinations, motifs etc. by designers while designing or crafting textiles.



Emotions evoked by the off-white saree with gold border

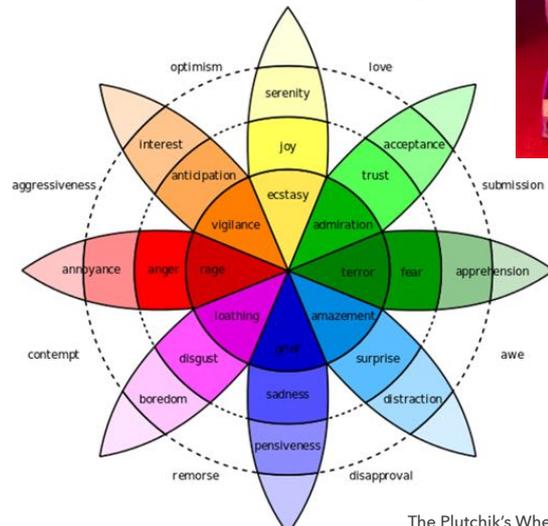


Emotions evoked by magenta saree



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- Image weblinks -
- Lambani Woman - <https://s-media-cache-ak0.pinimg.com/736x/b4/d1/35/b4d13574bf2a5bbb4c0d368ee2e6e0b8.jpg>
 - CuteCircuit - http://orig12.deviantart.net/562a/fi/2009/250/8/a/coolest_dress_ever_by_phoenixwildfire.jpg
 - Archana Kochhar - <http://www.fusionlife.in/follow-your-heart/>
 - Off-White Saree - <https://s-media-cache-ak0.pinimg.com/564x/54/51/1c/54511c109cae1e7ef41f91848b90755.jpg>
 - Magenta Saree - <https://s-media-cache-ak0.pinimg.com/564x/3a/39/94/3a3994849b8730b481aabb851ebc912d.jpg>



The Plutchik's Wheel of Emotions, 1980