



1st International Workshop

Prototyping for Research" (CS'10) Kuala Lumpur – Malaysia. 19th of July 2010

Background and Goals: This workshop will explore the use of science fiction as a means to motivate and direct research into new technologies and consumer products. It does this by creating science fiction stories grounded in current science and engineering research that are written for the explicit purpose of acting as prototypes for people to explore a wide variety of futures. These prototypes can be created by scientists and engineers to stretch their work or by, for example, writers, school children and members of the public to influence the work of researchers. The outcomes of these interactions are then be fed back, to shape the science research and outputs. In this way science fiction prototypes act as a way of imobining the widest section of the population in determining the science research agends, thereby making science investment, and science output more useful to everyone ranging from companies, through scientists and engineers to the public, consumers and the government that indirectly hund R&D. In this way inclonal prototypes provide a powerful interdisciplinary tool to enhance the traditional practices of research, design and market research. The goals of the workshop are to act as a catalyst of this new approach by acting as a forum where researchers from differing disciplines (notably science fact and science fiction) can come together to explore how to develop this area.

Participation: You are cordially invited to participate to the workshop either as a presenter or as someone simply wishing to learn more about this topic and, perhaps, join the discussion as a member of the audience. Participation is possible either by attending the workshop in person, or by participating via the Internet For presenters (science researchers or writers) we are looking for short imaginative fictional stories (prototypes) of no more than 10 pages (and presentations of 15 minutes) based on recent scientific publications, which would act as motivation (or discussion) or how science research might be directed Your submission should include a short discussion from one than 2 pages) of how the story relates to your published work and vision for advancing scientific research. All fictional stories (prototypes) accepted will be published as part of the 1EO workshop proceedings. IOS Press will publish the proceedings and the formal of the papers should follow the IOS publication outdelines and be submitted via the workshop management system.

Workshop Structure: The workshop will comprise a single day event and will include:

- Presentations (papers) from science and engineering researchers on their own scientific papers/projects depicting how they foresee their research mipht impact future words.
 Presentations from science fiction writers depicting aspects of their stones that they feel would be feasible and useful for scientists to try to implement.
 A panel led discussion, with the audience, aimed at a) refining the fictional prototype methodology and b) exploring how this emerging area might be taken forward.

The Venue: CS'10 will run in conjunction with IE'10 at Monash University Sunway Campus which is situated on the outskirts of Kuala Lumpur, the exciting capital city of Malaysia. Kuala Lumpur is a multi-cultural society comprising a mix of Malay, Indian, Chinese and Europeans which come together to make one of the most vibrant and exciting cities in the world, a fitting place to meet and inspire discussions on the future. More details are given on the IE10 web pages:



1£10 Co-located with the 6th International Conference on Intelligent Environments



Intel Corporation



CSf Creative Science Foundation

- Paper submission:31st May2010
 (via the CS'10 paper story submission system)
 Notification of acceptance:17th June 2010
 Paper final submission (with revisions):21st June 2010

Workshop Fees:

- CS'10 Attendees not presenting papers (includes meals and proceedings). Physically Present 250 MVR (50 Euros) Virtually Present (Internet) 125MVR (25 Euros) IE'10 Conference and Workshop attendees Fre
- CS'10 Attendees presenting papers (includes meals and proceedings) Virtual and Real 700 MYR (150 Euros) Registrants of main conference and workshops free

If you can help us publicize this workshop, please download and display the CS'10 Poster (designed by Xiaoxia Zheng - zhengxiaoxia@hotmail.com).

Video Introduction:

By way of an introduction to creative science, you might find the following video of a presentation from Brian David Johnson (Intel Corp., USA), given as part of the ShanghAl lecture series on the 29th of October 2009, interesting:

Brain Machines: Robots, Free Will and Science Fiction Prototypes

Workshop Organizers:

Victor Callaghan (University of Essex, UK) Simon Egerton (Monash University, Malaysia) Brian David Johnson (Consumer Experience Architect, Intel Research Labs, USA)

Next Year's Creative Science Workshop:



T-Shirt Design Contest

By way of some fun, we would like to invite you to submit a simple design for a t-shirt that has the theme what happens when science fact." Designs many be done in whatever tools you like but the final file should be uploaded to the CS 10 workshop you like dut me final hie should be uponade to the U.S.10 workshop paper submission system (in JPG (preferred) or PDF format (you can enter this competition without submitting a paper - simply upload the logo instead of a paper). The results will be announced at CE'10 where finished T-Shirts of the winning design will be distributed to workshop delegates. The competition will be judged by a team chaired by the Art & Visual Designer Sandy Winkelman.

Note: the winning design was judged to be "Reflection in an eye" by Lizzi Callaghan (see her <u>swinning design</u>). Her concept was a reflection in the eye of a futurist crob (climm; in this case, from Brian David Johnson's "Brain Machine" stories), The idea was to show the intesface between science in the form of the living world (us - the eye in this case) and the Soiri world (for both). The drawing is supposed to open questions such as is the eye that contains the reflection human; might the eye be an animal or even another machine? Is there a level of abstration above this more literal view, might the image be an imaginative thought or a dream, is the image of the robot an idea in a designers mind, are we looking through an eye or at an eye, is this art or reality?

SF-Prototype Competition

We are keen to encourage SF Prototypes from as wide a cross section of society as possible, ranging from school children through to retired people and so, thanks to Intel's sponsorship, we will be offering free registration to the 5 best stories/papers (so, even if you can't afford the workshop fees, submit your story as it may be awarded free registration).

SF-Prototypes, Presentations &

- · 'An Introduction to SF Prototyping' by Brian David Johnson

- An Introduction to SF Prototyping by Brian David Johnson

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 Exploring Science Fiction Prototypes in Persuasive TeleHealth'
 by Sumi Hela! **INVITED TALK**

 Solfis as a Design Tool by Nathan Shedroff **INVITED TALK*.

 Notes from the Interface by Paul McCullagh *SF-Prototypes
 gresentation, *oldege. *BEST SF-PROTOTYPE AWARD*

 We all wear dark glasses now by Graham Clarke and Malcolm
 Lear *SF-Prototype, *opssentation*.

 *Vautomated Eye on Nature and the Were-Tigers of Belum' by
 Kar-Seng Loke and Simon Egerton *SF-Prototype, *

 gressentation.

 *Knowing Yourself by Yevgeniya Kovalchuk *SF-Prototype, *

 *A survey in consciousness in robots and the future of reception
 robots by Hossein Fand Chassem Nia *SF-Prototype, *

 *Mid by Angelica Reyes and Ruth S. Contreras Espinosa *SF
 *Prototype, *sudege.**

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Special Talks:

Exploring Science Fiction Prototypes ersuasive TeleHealth Prof Sumi Helal

Dr Abdelsalam (Sumi) Helal is a full Professor at the Computer and Information Science and Engineering Department (CISE) at the University of Florida. His research interests span the areas of Pervasive Computing, Mobile Computing and networking and Internet Computing, He directs the Mobile and Pervasive Computing Laboratory at the CISE department, and is co-dounder and director of the Gator Tech Smart House, an experimental home for applied research in the domain of elder care. He led the technology development of the NIDRR-funded



Special Talks:

Nathan Shedroff is the Chair of the MBA in Design Strategy Program at the California College of the Arts (CCA). Shedroff is one of the pioneers in Experience Design, an approach to design that encompasses multiple senses and requirements and explores common characteristics in all media that make experiences successful, as well as related fields, interaction Design and Information Design. He speaks and teaches internationally and has written extensively on design and business issues, including, Experience Design 1 and Maring Meaning. Shedroff is a serial enterpreneur, works in several media, and consults strategically for companies to build better, more meaningful experiences for their customers. Recently Shedroff has been exploring how design influences science fliction (SciFi) and how SciFi influences design. Along with Chrisi Nessel they have explored interfaces and interaction design and investigated issues of styling. They have focused on the media of SCFI (TV and films) conducting a thorough analysis of interaction design in SciFi looking at visual interfaces that are completely and concretely represented, including motion and usage that describe the interaction. These SciFi interfaces oftentimes reach wide audience and have a deep cultural impact.