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When

Thursday July 26th 2018 from 11am-12pm EDT (3pm – 4pm UTC)

Topic

Human – Systems Integration – An Evolution

Speaker

Guy André Boy

Abstract

Human-Systems Integration (HSI) is constantly evolving going from work analysis, to user interface design, to function allocation, to activity-base design though human-in-the-loop simulation, and so on. This webinar will present a historical view going from human factors and ergonomics to human-computer interaction to contemporary HSI. It is now possible to carry out effective human-centered design (HCD) from the beginning of a project through the life cycle of a product in order to better control design flexibility, resource commitments and systems knowledge. HCD will be presented as a mandatory approach, associated with systems engineering to generate HSI, that combines cognitive engineering, complexity analysis, organization design and management, modeling and simulation, advanced interaction media and life-critical systems. The main attributes of HSI, developed within INCOSE HSI working group, will be provided together with a research and development agenda.

Biography

Guy A. Boy, Ph.D., is Professor and Chair of ESTIA Science Board, Fellow of the Air and Space Academy and Chair of the Human-Systems Integration Working Group of International Council on Systems Engineering (INCOSE). He was University Professor and Dean, School of Human-Centered Design, Innovation and Art and HCD Ph.D. & Master's Programs at the Florida Institute of Technology (2009-2017), and a Senior Research Scientist at the Florida Institute for Human and Machine Cognition (IHMC). He was Chief Scientist for Human-Centered Design at NASA Kennedy Space Center (2010-2016). He was member of the Scientific Committee of the SESAR program (Single European Sky for Air Traffic Management Research) from 2013 to 2016. He was the Chair of the 2012 ISU (International Space University) SSP (Space Studies Program) FIT/NASA-KSC local organizing committee. He was Adjunct Professor at the École Polytechnique in Paris (Comasic Master). He is Board Member of the Complex Systems Engineering Master Pedagogic Committee at Université Paris Saclay. He was the President and Chief Scientist of the European Institute of Cognitive Sciences and Engineering (EURISCO, a research institute of Airbus and Thales). He co-founded EURISCO in 1992, and managed it since its creation to its closing in 2008. Between 1980 and 1991, he worked for ONERA (the French Aerospace Lab) as a research scientist, and NASA Ames Research Center as the Advanced Interaction Media Group Lead (1984-1991). Engineer and cognitive scientist, he received his Masters and Doctorate degrees from the Ecole Nationale Supérieure de l'Aéronautique et de l'Espace (ISAE-SUPAERO: The French Aerospace Institute of Technology), his Professorship Habilitation (HDR) from Pierre and Marie Curie's University (Paris VI), and his Full Professorship Qualifications in Computer Science and Psychology. Boy actively participated to the introduction of cognitive engineering in France and its development worldwide. He was the co-founder in 2004 of the Ecole Nationale Supérieure de Cognitique (ENSC), a cognitive engineering program at the University of Bordeaux. He co-founded the HCI-Aero Conference series. He is the author of more than 200 articles and two text books, Intelligent Assistant Systems (Academic Press, USA, 1991) and Cognitive Function Analysis (Praeger, USA, 1998), the editor the French handbook of cognitive

engineering (Lavoisier, France, 2003), and the Handbook of Human-Machine Interaction (Ashgate, UK) in 2011. His most recent books are Orchestrating Human-Centered Design (Springer, UK, 2013) and Tangible Interactive Systems (Springer, UK, 2016). He is a senior member of the ACM-Association for Computing Machinery (Executive Vice-Chair of ACM-SIGCHI from 1995 to 1999) and Chair of the Aerospace Technical Committee of IEA (International Ergonomics Association).

Sociomedia

•   Wikipedia: https://en.wikipedia.org/wiki/Guy_Andr%C3%A9_Boy

•   LinkedIn: https://www.linkedin.com/in/guyboy

•   Researchgate: https://www.researchgate.net/profile/Guy_Boy

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Regards,

Andy Pickard
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