

School of Engineering Department of MECHANICAL ENGINEERING

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People		Faculty					
Faculty Emeritus Faculty		Caroline G.L. Cao Associate Professor, Department of Mechanical Engineering				-	
Emeritus Faculty Part-Time Lecturer Staff	er	Education Ph.D., University of Tc Cert. Technology Man 1999 M.Sc., Simon Fraser L Post-Bacc. Dipl., Simo B.Sc., Simon Fraser U Research Interests Professor Cao's resea design and evaluation training simulators) fo virtual simulators, and She has published ov chapters on the topic of Professor Cao is also and Cybernetics, Part Human-Computer Inte Associates Publishers Interaction, National S Health Care), and com former chair and prog Factors and Ergonom Background Caroline G. L. Cao red currently the director of of mechanical engine founding director of th Tufts-New England M Cao is a recipient of th Distinctions 2003-2008 NSF CARI 2001 Chapanis Best S 2000 Claudette MacKa Engineering Memoria 1999-2001 Ontario Gr 1997-1999 University 1997 Gordon Diewert 1997 SFU Graduate F 1985-1988 Gordon M 1985 MacKenzie King Bell, A., Zhou, M., Sch	bronto, 2002 hagement, Politecnico D Jniversity, 1996 on Fraser University, 19 Iniversity, 1990 arch focus is in human of enabling technology or minimally invasive su d decision-making and er 90 peer-reviewed te of human factors in rob an associate editor of f A: Systems and Huma eraction. She served as s, Taylor & Francis Grou Science Foundation, Bri ference technical sess ram chair of the Health ics Society. ceived a Ph.D. (2002) ir of the Human Factors P ering, and adjunct asso e Ergonomics in Remo edical Center & School he prestigious National EER Award, National Sc Student Paper Award, F ay-Lassonde Scholarship, Ur of Toronto Graduate Fo Fellowship, SFU (declin Shrum Scholarship, Sr I Foundation raduate Scholarship, Ur of Toronto Graduate Fo Fellowship, SFU (declin Shrum Scholarship, S I Entrance Scholarship, S	biMilano & Helsinki Universit 194 factors of medical systems y (e.g., robotics, image guid rgery, training of surgical sl team communication in the chnical papers on her work, otic surgery. the IEEE Transactions on S ns, and of the Journal of Ad a reviewer for Lawrence E up, ACM Transactions on C tish Medical Journal (Quality ions for HFES and IEEE SM Care Technical Group of th n mechanical & industrial en trogram in the School of Eng ociate professor of biomediic te Environments Laboratory of Engineering Human Factors Science Foundation Care Technical on finalist, Human Factors and nip (Women in Engineering) niversity of Toronto ellowship ned) ed) FU UBC (declined) C.G. L. (2009). Using a Dyna	y of Technology, , including the ance, haptics, kills in real and operating room. and two book ystems, Man, vances in rlbaum omputer-Human / and Safety in 1C. She is a le Human gineering from the gineering at Tufts University tors and Surgical F r Award in the USA Ergonomics Socie , University of Toro	Contact Information 027 Anderson Hall Tufts University Medford, MA 02155 Tel: 617-627-2484 Fax: 617-627-3058 Email Professor View > Curriculum Vitae (PDF) Curversity: associate profest University of Toronto. She buiversity: Associate profest University. She is the y, and research director of the case arch Center. Caroline A.	on II 5 4 8 e (PDF) hto. She is e professor is the porter of the caroline adian
		Laparoscopic Surgery	SKIII. SUIGICAI ENOOSC	upy, 23(10), 2330-2363.			

Cao, C.G.L., Weinger, M., Slagle, J., et al. (2008). Differences in Day and Night Shift Clinical Performance in Anesthesiology. Human Factors, 50(2), 276-290.

Zhou, M., Perreault, J., Schwaitzberg, S.D., Cao, C.G.L. (2008). Effect of experience on force perception threshold in minimally invasive surgery. Surgical Endoscopy, 22(2), 510-515.

O'Connor, A., Schwaitzberg, S.D., Cao, C.G.L. (2007). How much feedback is necessary for learning to suture? *Surgical Endoscopy*, 22, 1614-1619.

Bell, A., Johanas, J., Saide, M., Cao, C.G.L., Schwaitzberg, S.D. (2007). DynaMITE: Dynamic minimally invasive training and testing environment. *Journal of Surgical Innovation*, 14(3), 217-224.

Shimotsu, R. & Cao, C.G.L. (2007). The effect of color-contrasting shadows on a dynamic 3D laparoscopic surgical task. *IEEE Transactions on Systems, Man, and Cybernetics, Part A: Systems and Humans*, 37(6), 1047-1053.

Cao, C.G.L. & Milgram, P. (2007). Direction and location are not sufficient for navigating in non-rigid environments - an empirical study in augmented reality. *Presence: Teleoperators and Virtual Environments*, 16(6), 584-602.

Webster, J. & Cao, C.G.L. (2006). Lowering communication barriers in operating room technology. *Human Factors*, 48(4), 747-758.

Perreault, J. & Cao, C.G.L. (2006). Effects of vision and friction on haptic perception. Human Factors, 48(3), 574-586.

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